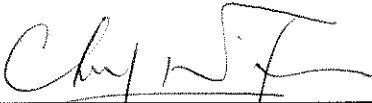


# Civil Engineering and Development Department

**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)**

**June 2017**

Approved By   
(Dr. Priscilla Choy,  
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 8<sup>th</sup> Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the “Agreement No. CE 67/2015 (HY) Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works – Design and Construction” (hereinafter called “the Project”). This report documents the findings of EM&A Works conducted in 1 – 30 June 2017.
2. During the reporting month, the major site activities undertaken in the reporting month included:
  - Site Clearance in Portions N and J;
  - Ground investigation in Portion J;
  - Construction of public toilet in Portion J;
  - Tree felling in Portions N and J;
  - Construction of retaining wall in Portions A, C, D, E and J;
  - Construction of subway in Portions B and I;
  - Utilities diversion works in Portions G, H and N;
  - Earth and drainage works in Portions A, B and K;
  - Construction of U-channel and Subway A in Portion B; and
  - Construction of rectangular channel in Portion E.

### 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 23<sup>th</sup> November 2016. This is the 8<sup>th</sup> Monthly EM&A Report summarizing the EM&A works for the Project from 1 – 30 June 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**.

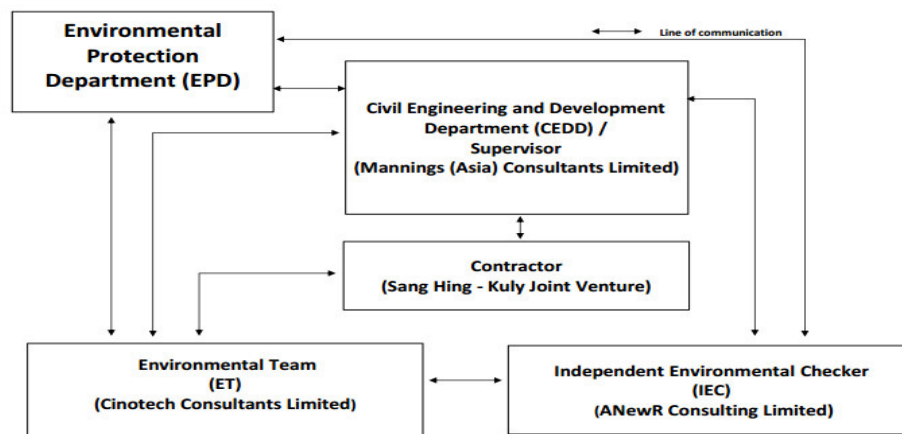


Figure 3 Organization Structure (Environmental Aspects)

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 N and J;
- Ground investigation in Portion J;
- Construction of public toilet in Portion J;
- Tree felling in Portions N and J;
- Construction of retaining wall in Portions A, C, D, E and J;
- Construction of subway in Portions B and I;
- Utilities diversion works in Portions G, H and N;
- Earth and drainage works in Portions A, B and K;
- Construction of U-channel and Subway A in Portion B; and
- Construction of rectangular channel in Portion E.

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

### Summary of EM&A Requirements

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

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

1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 8 of this report.

1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required noise monitoring and audit works for the Project in 1 – 30 June 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.
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Integrating Sound Level Meter	SVAN 955, 957, 977	4
Acoustic Calibrator	SV30A	3

### 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 <sub>eq</sub> (30 min.) dB(A) L <sub>10</sub> (30 min.) dB(A) L <sub>90</sub> (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<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> 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)	

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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 (June 17), $L_{eq}$ (30min) dB(A)
N1 - HKMLC Wong Chan Sook Ying Memorial School	55-62	62 <sup>(1)</sup>	58.0 – 62.0
N2 – Bethel High School	57-64	64 <sup>(1)</sup>	55.9 – 60.1
N3 – No. 159 Mai Po San Tsuen	70-73	74 <sup>(2)</sup>	68.6 – 71.2
N5 – Block 2, Dills Corner Garden	73-75	75 <sup>(2)</sup>	70.5 – 72.2
N6 – Home of Loving Faithfulness	64-73	74 <sup>(1)</sup>	69.4 – 71.8
N7 – Village House in Shek Wu Wai	N/A <sup>(3)</sup>	70 <sup>(2)</sup>	69.6 – 71.8

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 When comparing the noise monitoring results to the predicted mitigated construction noise levels in the EIA Report, the results in the reporting month at monitoring stations N1 and N6 were within the range of predicted mitigated construction noise levels in the EIA Report. The results at N2, N3 and N5 were lower than the range of the predicted mitigated construction noise levels in the EIA Report.

5.3 When comparing the noise monitoring results to the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works, the results at monitoring stations N1, N2, N3, N5 and N6 were lower than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works. The noise monitoring result at monitoring station N7 was slightly higher than the predicted mitigated worst case construction noise levels in the ERR for Stage 2 Works.

## 6 ECOLOGY AND FISHERIES

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

## 7 LANDSCAPE AND VISUAL IMPACT

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

## 8 ENVIRONMENTAL AUDIT

### Site Audits

- 8.1 Site audit was carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix G**.
- 8.2 Site audits were conducted on 7, 14, 20 and 28 June 2017 in the reporting month. IEC joint site inspection was conducted on 20 June 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 8.1**.

**Table 8.1 Summary of Environmental Licensing and Permit Status**

Permit No.	Valid Period		Details	Status
	From	To		
<b>Environmental Permit (EP)</b>				
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
<b>Billing Account for Construction Waste Disposal</b>				
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
<b>Effluent Discharge License</b>				
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				



Permit No.	Valid Period		Details	Status
	From	To		
WT00027582-2017		30/6/2018		
WT00027584-2017	--	31/7/2019		Valid
WT00027605-2017		31/3/2022		
WT00027607-2017				
<b>Registration of Chemical Waste Producer</b>				
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
<b>Construction Noise Permit (CNP)</b>				
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 8.2**.

**Table 8.2 Observations and Recommendations of Site Audit**

Parameters	Date	Observations and Recommendations	Follow-up
<i>Water Quality</i>	31 May, 7, 14, 20 and 28 June 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.
	31 May, 7, 14 and 20 June 2017	Sandbag bund should be provided to prevent silty runoff flowing to public roads at Portion E.	Silty runoff entering public area was not observed on 28 June 2017.
	31 May, 7, 14 and 20 June 2017	Ponding water should be cleared at Portion A and C.	Ponding water in Portion A and C was cleared on 28 June 2017.
	14 and 20 June 2017	Direct discharge of untreated wastewater was found at Portions C and I. The Contractor should provide appropriate and adequate treatment to wastewater prior to discharge.	Sedimentation tank was used for wastewater treatment before discharge on 28 June 2017.
<i>Air Quality</i>	31 May, 7, 14, 20 and 28 June 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.
	31 May 2017	Water spraying should be provided more frequently at Portion I for dust suppression.	Water spraying was provided on 7 June 2017.
<i>Noise</i>	N/A	There was no observation in the reporting period.	N/A
<i>Waste / Chemical Management</i>	31 May, 7, 14 and 20 June 2017	Drip trays should be provided to chemical containers in Portion E, K and WA3.	Chemical containers were removed on 28 June 2017.
	31 May, 7, 14 and 20 June 2017	Rubbish bins or waste collectors should be provided in Portion C and K for proper disposal and storage of solid waste.	Rubbish bins were maintained on 28 June 2017.

<b>Parameters</b>	<b>Date</b>	<b>Observations and Recommendations</b>	<b>Follow-up</b>
	20 June 2017	General refuse found in Portion K should be properly cleared. Housekeeping in Portion K should be enhanced.	Housekeeping at Portion K was observed enhanced on 28 June 2017.
	28 June 2017	Drip trays should be provided for chemical containers in Portion C to prevent leakage.	Follow up actions will be reported in the next month.
	28 June 2017	General refuse found at Portion C should be properly cleared.	Follow up actions will be reported in the next month.
<b><i>Ecology and Fisheries</i></b>	N/A	There was no observation in the reporting period.	N/A
<b><i>Landscape and Visual</i></b>	31 May, 7, 14 and 20 June 2017	Fencing of tree protection zones in Portion E, K and WA3 should be enhanced to protect all existing trees.	Fencing of tree protection zones were set up on 28 June 2017.
<b><i>Permits/ Licenses</i></b>	N/A	There was no observation in the reporting period.	N/A

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

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

#### Construction Noise

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

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

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

## 9 FUTURE KEY ISSUES

9.1 Major site activities undertaken for the coming two months include:

- Site Clearance in Portions M and N;
- Ground investigation in Portion J;
- Construction of public toilet in Portion L;
- Tree felling in Portions M and N;
- Construction of retaining wall in Portions C, D, E and K;
- Construction of subway in Portions I;
- Utilities diversion works in Portions H and N;
- Earth and drainage works in Portions A, D, E, F, J and K; and
- Construction of U-channel in Portion B;

### 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. July 2017 to August 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.
- Proper tarpaulin coverage should be provided to all stockpiles in the Site to prevent dust generation.

#### *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.
- Embankment or dikes should be established at the site boundary to direct any untreated wastewater from the Site to wastewater treatment facility during rain events to perform water treatment before discharge.
- Standing or ponding water within the Site should be cleared as far as practicable.

#### *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.

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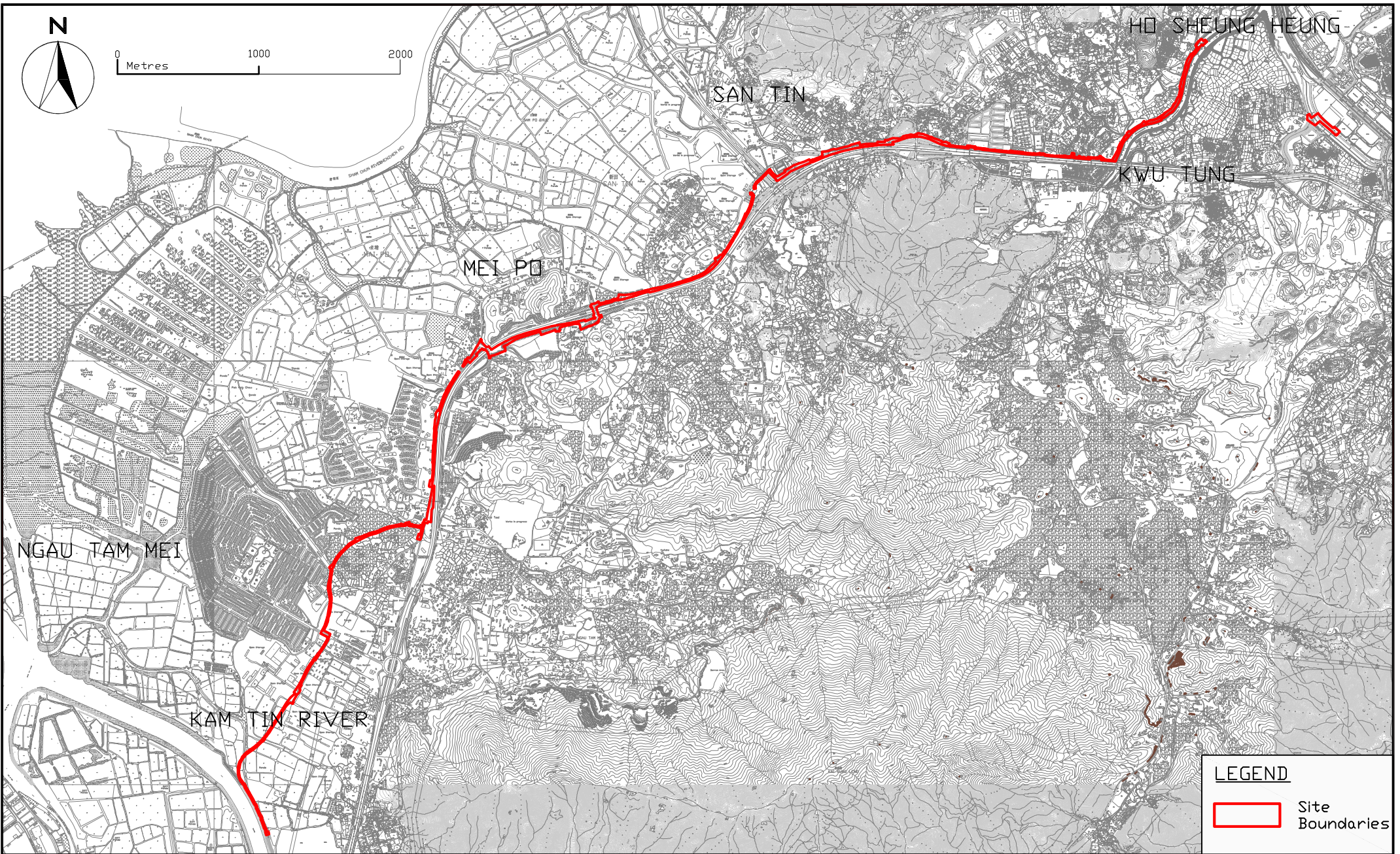
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## FIGURES

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**LEGEND**

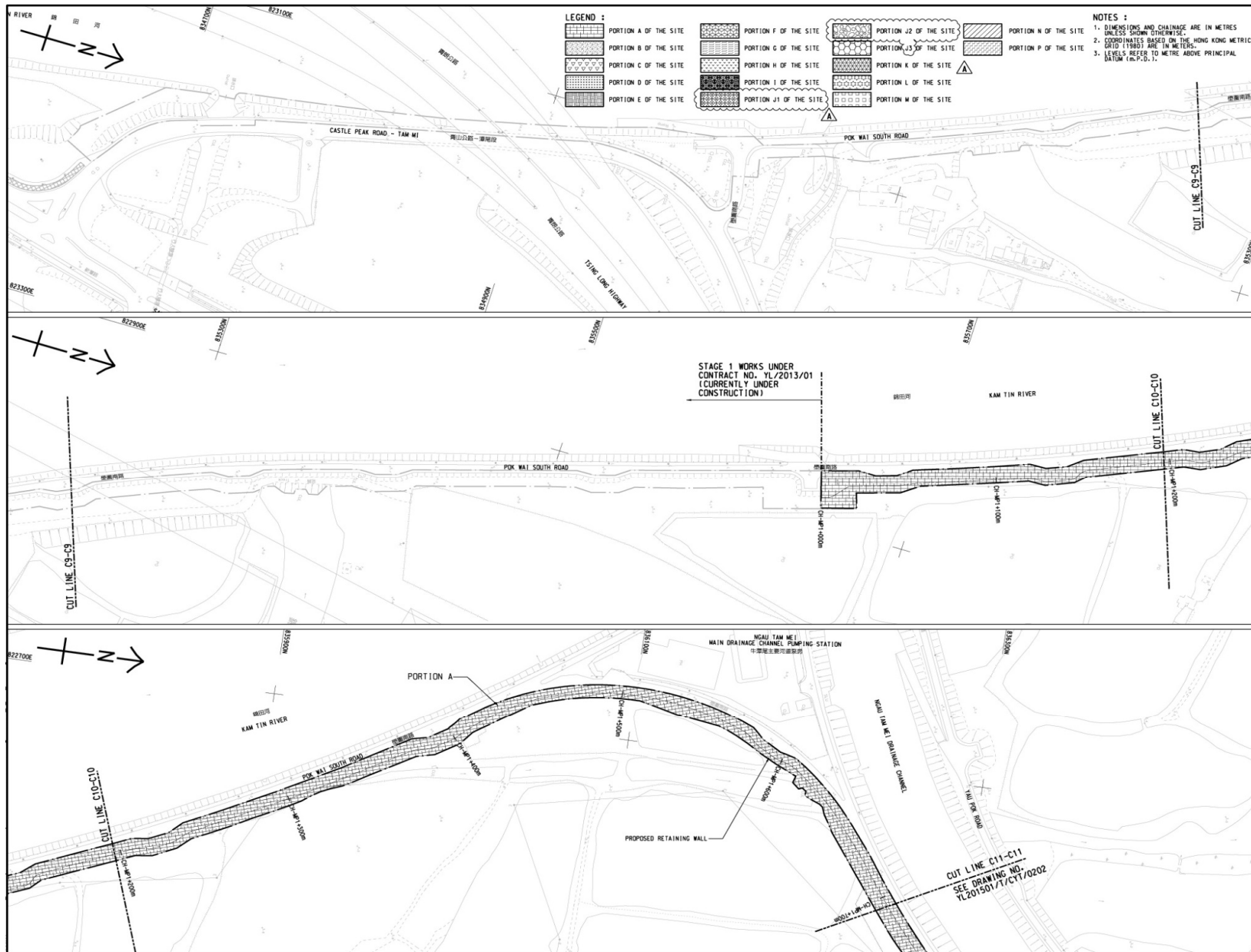
Site Boundaries



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

**SITE LAYOUT PLAN**

SCALE	A4 1:35m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	1a
		REV	-

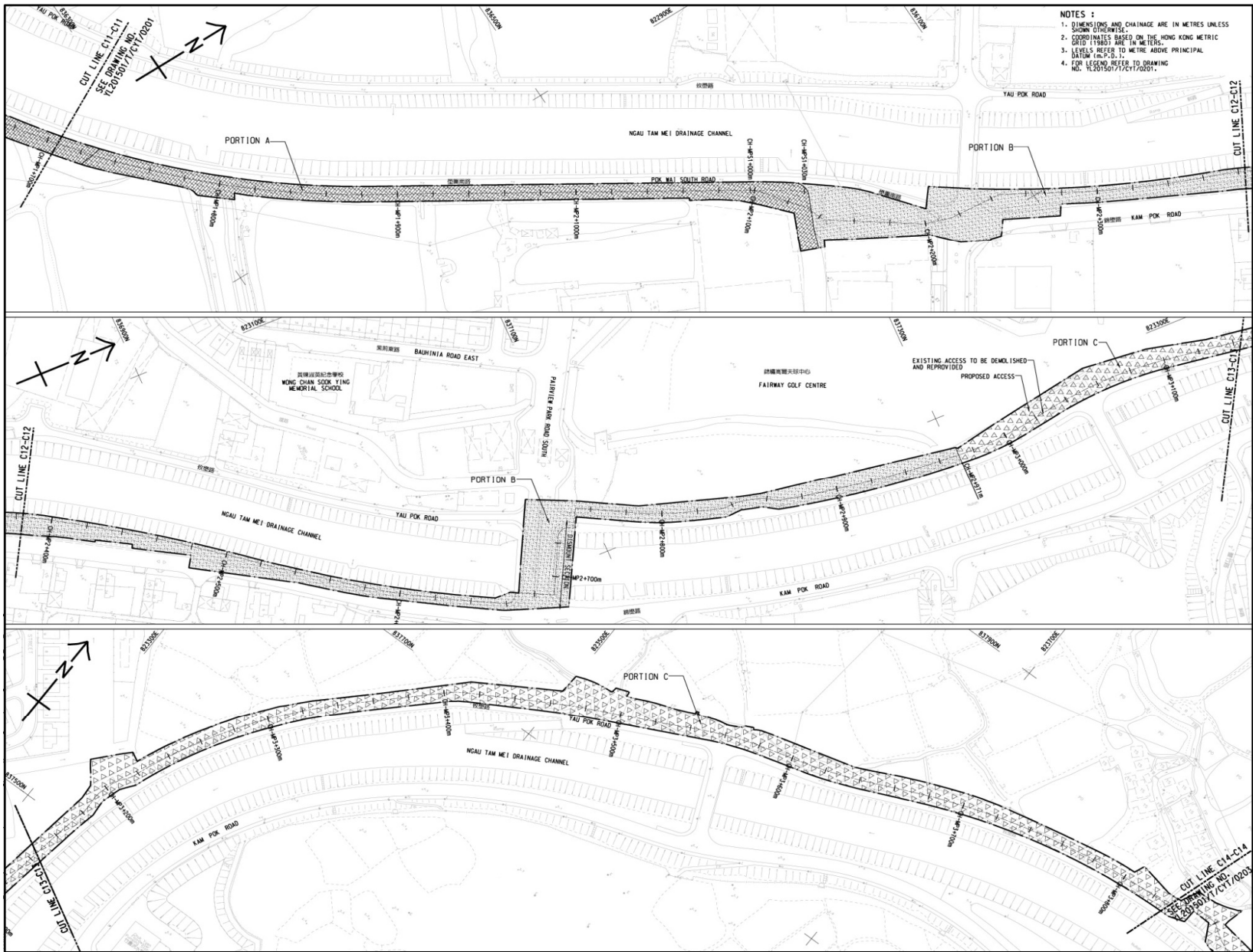


Title

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

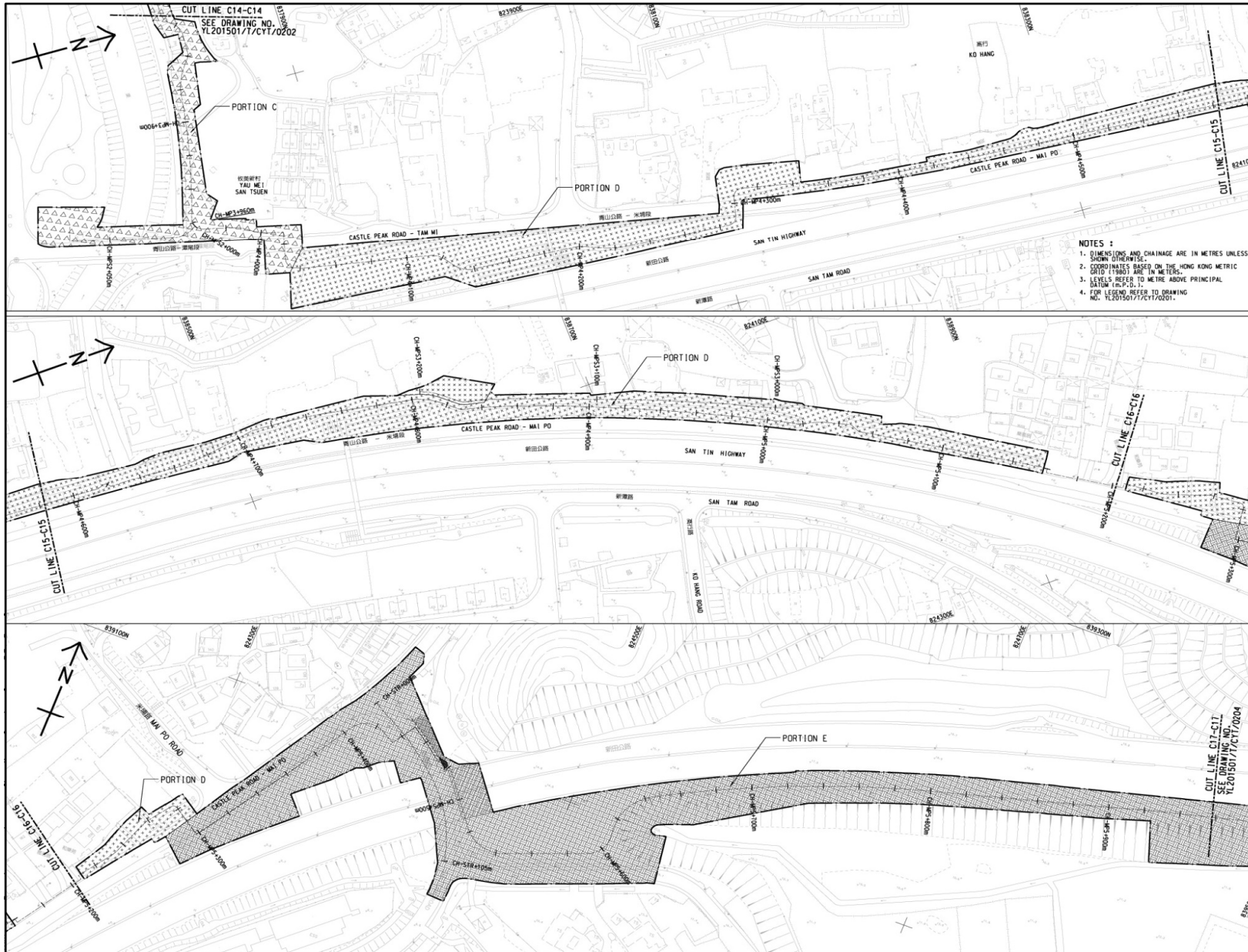
**CINOTECH**



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

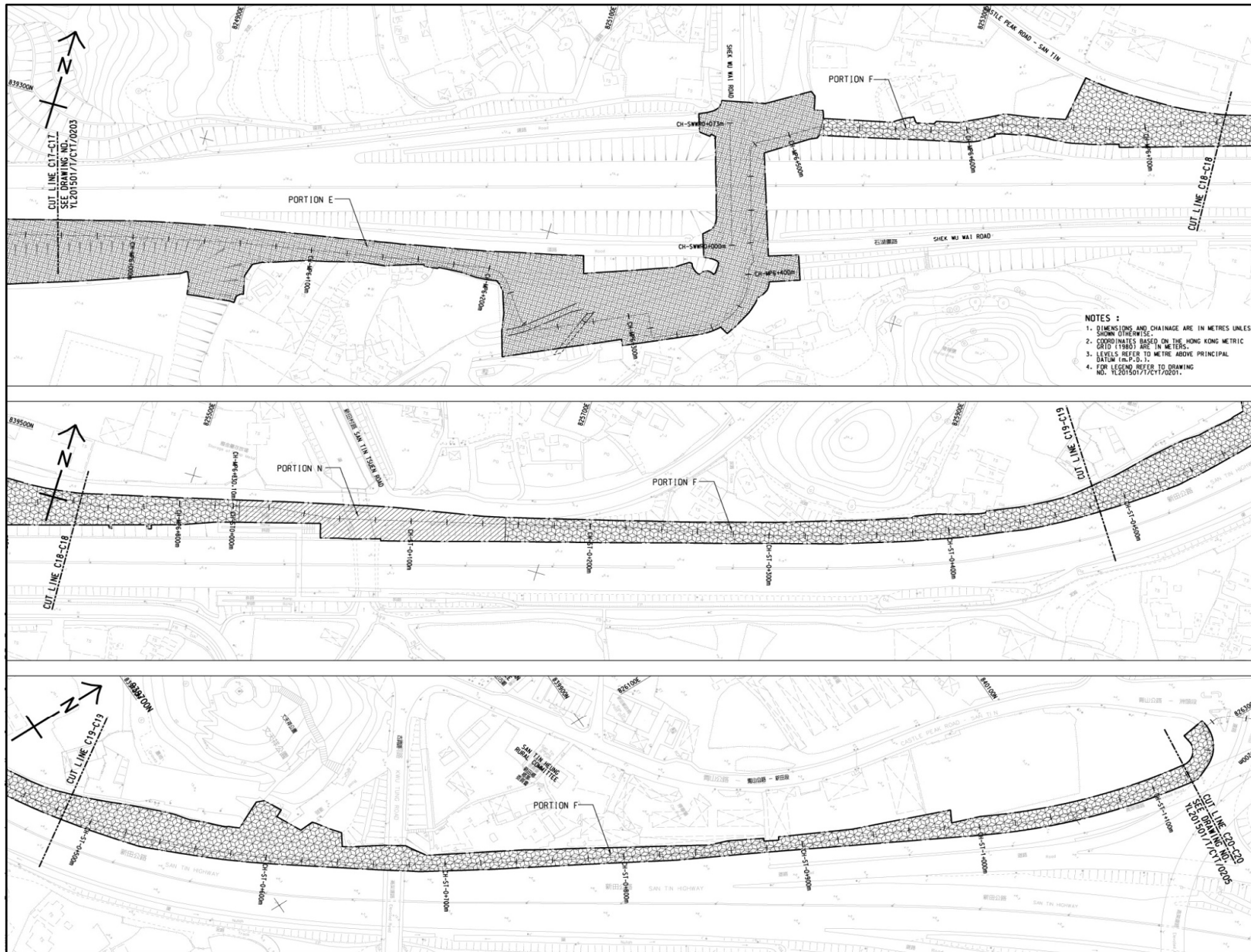




Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

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

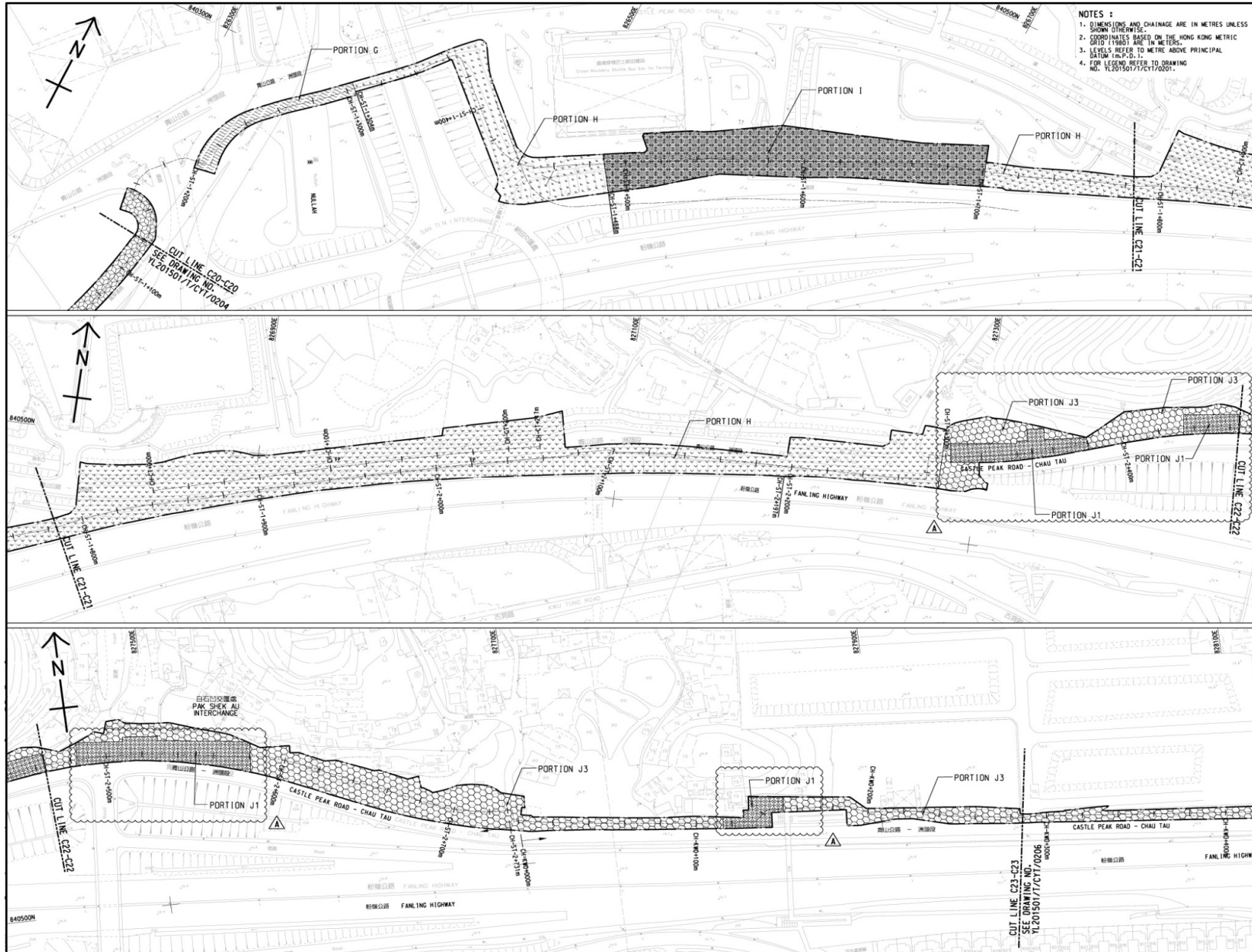
CINOTECH



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	1e

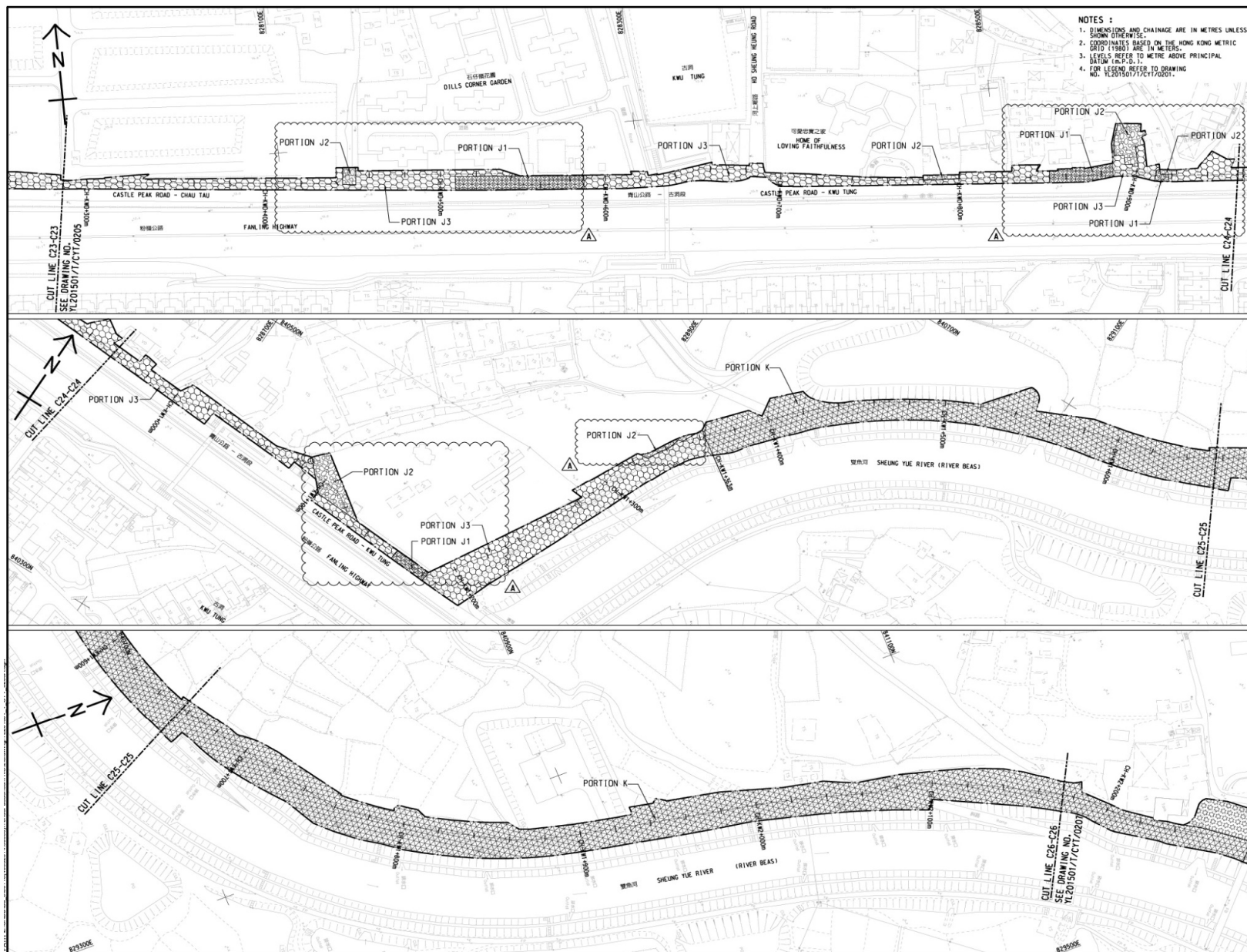




Title Agreement No. CE 67/2015(HY)  
 Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works  
 Design and Construction  
 Site Layout Plan

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





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



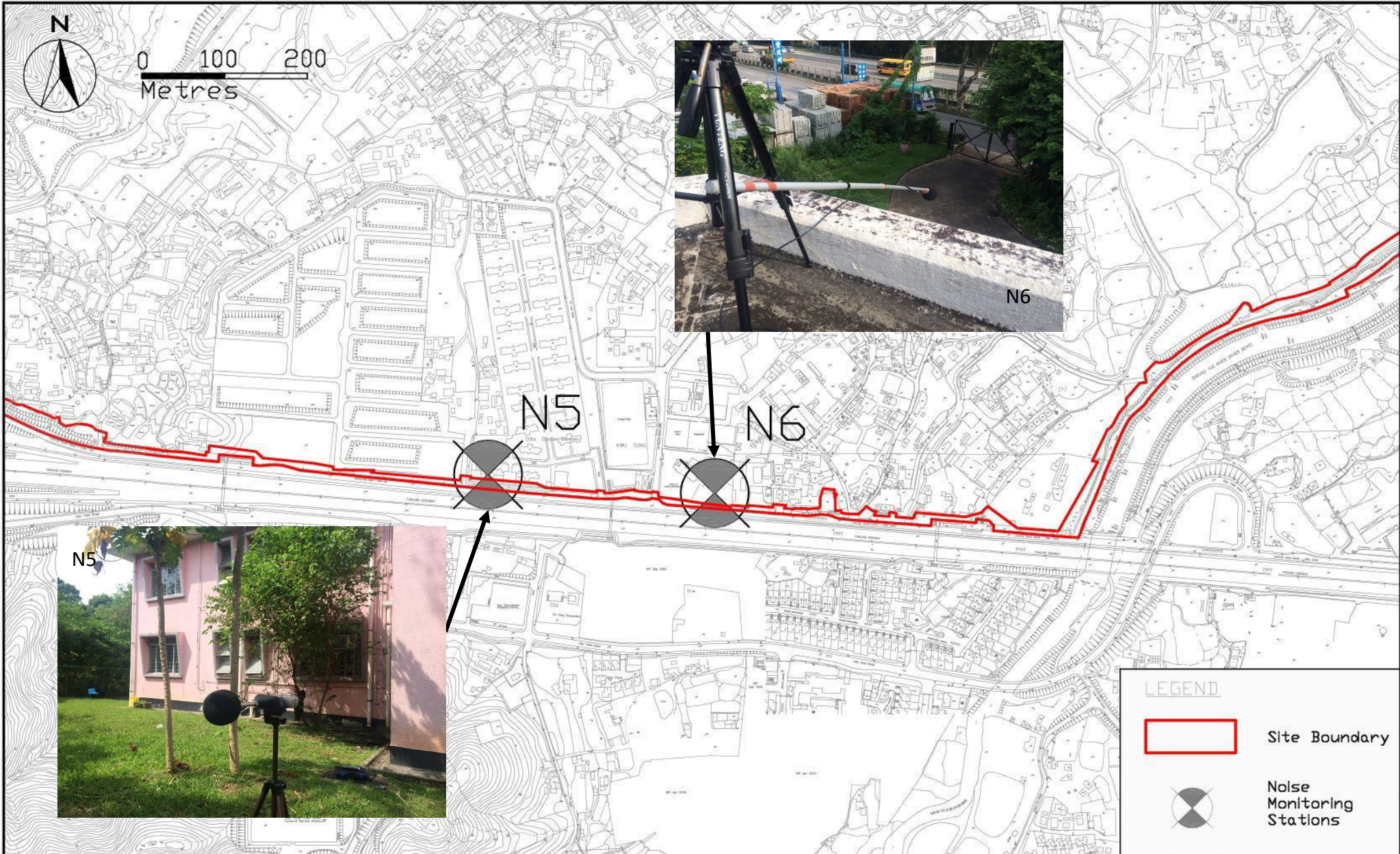
Agreement No. CE 67/2015(HY) - Cycle Tracks from Tuen Mun to Sheung Shui - Remaining Works - Design and Construction

**Locations of the Noise Monitoring Stations (N1, N2)**

SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2a
		REV	-



SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2b
		REV	-



SCALE	A4 1:6m	DATE	Aug 2016
CHECK	JL	DRAWN	VW
JOB No.	MA16036	FIGURE NO.	2c
		REV	-

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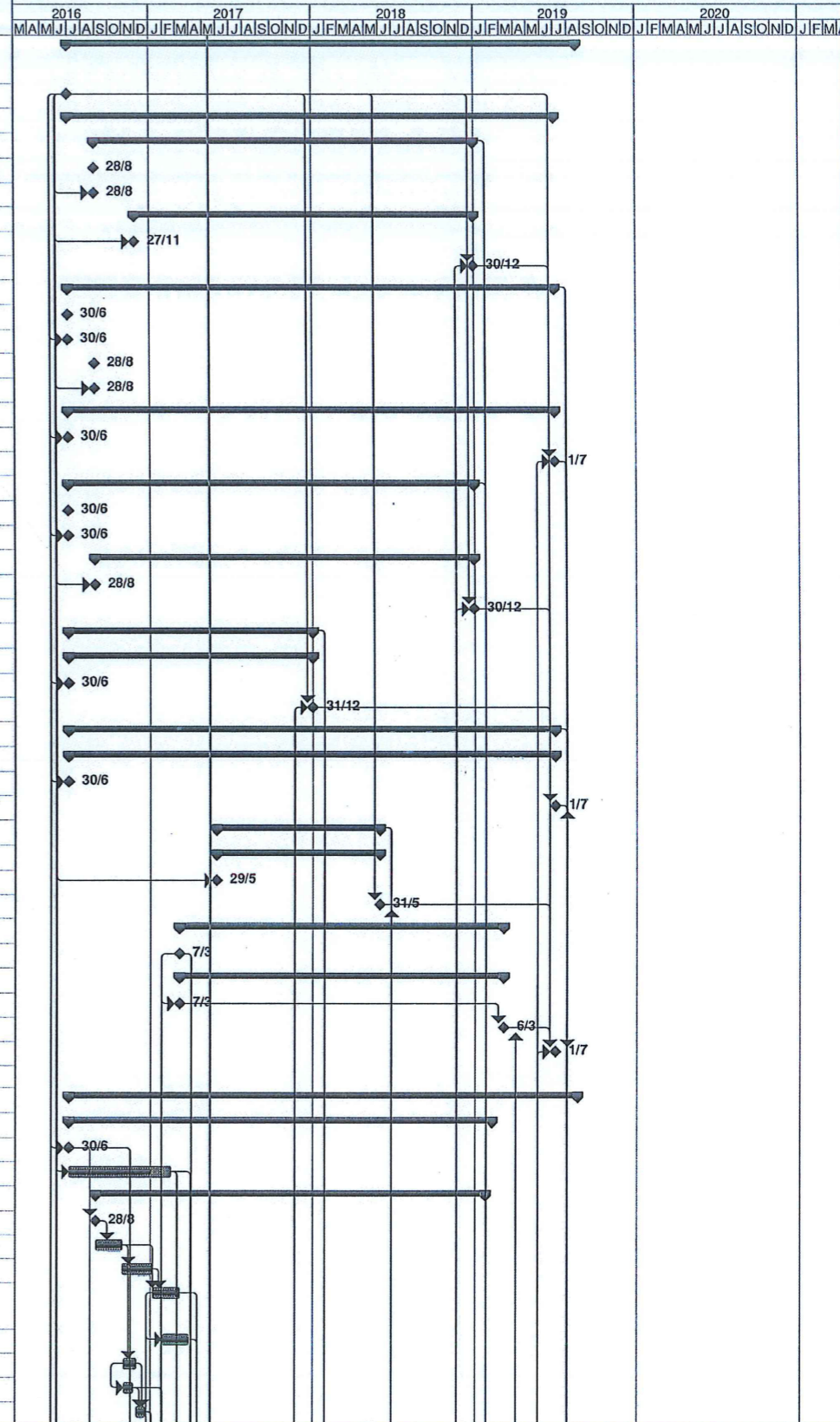
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**APPENDIX A  
WORK PROGRAMME**

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ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start	Gantt Chart (2016-2020)											
1	CONTRACT DURATION (ALL WORKS EXCEPT LANDSCAPING AND ESTABLISHMENT)	1147 days		Thu 30/6/16	Tue 20/8/19	485 days	35%		Thu 30/6/16	[Gantt Chart for Task 1]											
2	COMMENCEMENT OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%		Thu 30/6/16	[Gantt Chart for Task 2]											
3	ACCESS DATES AND COMPLETION DATES FOR CONTRACTS	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0%		Thu 30/6/16	[Gantt Chart for Task 3]											
4	SECTION W1 (PORTION A,B,C & D)	854 days		Sun 28/8/16	Sun 30/12/18	0 days	0%		Sun 28/8/16	[Gantt Chart for Task 4]											
5	PORTION A & C	0 days		Sun 28/8/16	Sun 28/8/16	854 days	0%		Sun 28/8/16	[Gantt Chart for Task 5]											
6	ACCESS DATE	0 days		Sun 28/8/16	Sun 28/8/16	854 days	0%	2SS+60 days	Sun 28/8/16	[Gantt Chart for Task 6]											
7	PORTION B & D	763 days		Sun 27/11/16	Sun 30/12/18	0 days	0%		Sun 27/11/16	[Gantt Chart for Task 7]											
8	ACCESS DATE	0 days		Sun 27/11/16	Sun 27/11/16	763 days	0%	2SS+151 days	Sun 27/11/16	[Gantt Chart for Task 8]											
9	COMPLETION DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	2FS+913 days,147	Sun 30/12/18	[Gantt Chart for Task 9]											
10	SECTION W2 (PORTION E, F, G, H, I & N)	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0%		Thu 30/6/16	[Gantt Chart for Task 10]											
11	PORTION G, I & N	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%		Thu 30/6/16	[Gantt Chart for Task 11]											
12	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%	2SS	Thu 30/6/16	[Gantt Chart for Task 12]											
13	PORTION E & H	0 days		Sun 28/8/16	Sun 28/8/16	1037 days	0%		Sun 28/8/16	[Gantt Chart for Task 13]											
14	ACCESS DATE	0 days		Sun 28/8/16	Sun 28/8/16	1037 days	0%	2SS+60 days	Sun 28/8/16	[Gantt Chart for Task 14]											
15	PORTION F	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0%		Thu 30/6/16	[Gantt Chart for Task 15]											
16	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%	2SS	Thu 30/6/16	[Gantt Chart for Task 16]											
17	COMPLETION DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	2FS+1097 days,303	Mon 1/7/19	[Gantt Chart for Task 17]											
18	SECTION W3 (PORTION K, J1)	914 days		Thu 30/6/16	Sun 30/12/18	0 days	0%		Thu 30/6/16	[Gantt Chart for Task 18]											
19	PORTION K	0 days		Thu 30/6/16	Thu 30/6/16	914 days	0%		Thu 30/6/16	[Gantt Chart for Task 19]											
20	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	914 days	0%	2SS	Thu 30/6/16	[Gantt Chart for Task 20]											
21	PORTION J1	854 days		Sun 28/8/16	Sun 30/12/18	0 days	0%		Sun 28/8/16	[Gantt Chart for Task 21]											
22	ACCESS DATE	0 days		Sun 28/8/16	Sun 28/8/16	854 days	0%	2SS+60 days	Sun 28/8/16	[Gantt Chart for Task 22]											
23	COMPLETION DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	2FS+913 days,329	Sun 30/12/18	[Gantt Chart for Task 23]											
24	SECTION W4	550 days		Thu 30/6/16	Sun 31/12/17	0 days	0%		Thu 30/6/16	[Gantt Chart for Task 24]											
25	PORTION L	550 days		Thu 30/6/16	Sun 31/12/17	0 days	0%		Thu 30/6/16	[Gantt Chart for Task 25]											
26	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	550 days	0%	2SS	Thu 30/6/16	[Gantt Chart for Task 26]											
27	COMPLETION DATE	0 days		Sun 31/12/17	Sun 31/12/17	0 days	0%	2FS+548 days,344	Sun 31/12/17	[Gantt Chart for Task 27]											
28	SECTION W5	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0%		Thu 30/6/16	[Gantt Chart for Task 28]											
29	PORTION M	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	0%		Thu 30/6/16	[Gantt Chart for Task 29]											
30	ACCESS DATE	0 days		Thu 30/6/16	Thu 30/6/16	1097 days	0%	2SS	Thu 30/6/16	[Gantt Chart for Task 30]											
31	COMPLETION DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	2FS+1097 days,388	Mon 1/7/19	[Gantt Chart for Task 31]											
32	SECTION W6	367 days		Mon 29/5/17	Thu 31/5/18	0 days	0%		Mon 29/5/17	[Gantt Chart for Task 32]											
33	PORTION P	367 days		Mon 29/5/17	Thu 31/5/18	0 days	0%		Mon 29/5/17	[Gantt Chart for Task 33]											
34	ACCESS DATE	0 days		Mon 29/5/17	Mon 29/5/17	367 days	0%	2SS+334 days	Mon 29/5/17	[Gantt Chart for Task 34]											
35	COMPLETION DATE	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	2FS+701 days,399	Thu 31/5/18	[Gantt Chart for Task 35]											
36	SECTION W7	730 days		Tue 7/3/17	Wed 6/3/19	0 days	0%		Tue 7/3/17	[Gantt Chart for Task 36]											
37	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%		Tue 7/3/17	[Gantt Chart for Task 37]											
38	PORTION J2 & J3	730 days		Tue 7/3/17	Wed 6/3/19	0 days	0%		Tue 7/3/17	[Gantt Chart for Task 38]											
39	ACCESS DATE	0 days		Tue 7/3/17	Tue 7/3/17	0 days	0%	37SS	Tue 7/3/17	[Gantt Chart for Task 39]											
40	COMPLETION DATE	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	39FS+730 days,425	Wed 6/3/19	[Gantt Chart for Task 40]											
41	COMPLETION FROM SECTION W1 TO SECTION W7	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	9,17,23,27,31,35,40,426	Mon 1/7/19	[Gantt Chart for Task 41]											
42	PLANNED WORKS PROGRAMME	1147 days		Thu 30/6/16	Tue 20/8/19	485 days	35%		Thu 30/6/16	[Gantt Chart for Task 42]											
43	SECTION W1 (PORTION A,B,C & D)	954 days		Thu 30/6/16	Fri 8/2/19	678 days	33%		Thu 30/6/16	[Gantt Chart for Task 43]											
44	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16	[Gantt Chart for Task 44]											
45	APPLICATION FOR INDIVIDUAL EXCAVATION PERMIT FOR SECTION W1	230 days		Thu 30/6/16	Tue 14/2/17	1402 days	80%	2SS	Thu 30/6/16	[Gantt Chart for Task 45]											
46	PORTION A - POK WAI ROAD SOUTH (MP 1+000 - MP 2+130)	879 days		Sun 28/8/16	Thu 24/1/19	-25 days	46%		Sun 28/8/16	[Gantt Chart for Task 46]											
47	POSSESSION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	45FS+60 days	Sun 28/8/16	[Gantt Chart for Task 47]											
48	INITIAL SURVEY	60 days	3 days	Mon 29/8/16	Thu 27/10/16	0 days	100%	48	Mon 29/8/16	[Gantt Chart for Task 48]											
49	TREE SURVEY	70 days	3 days	Fri 28/10/16	Thu 5/1/17	0 days	100%	49	Fri 28/10/16	[Gantt Chart for Task 49]											
50	TREE FELLING / TRANSPLANTING AND SITE CLEARANCE (FOR NEW DLO MEMO)	60 days	5 days	Fri 6/1/17	Mon 6/3/17	0 days	100%	50,49	Fri 6/1/17	[Gantt Chart for Task 50]											
51	UTILITIES DIVERSION WORKS (CLP & PCCW)	60 days	0 day	Fri 27/1/17	Mon 27/3/17	0 days	100%	51SS	Fri 27/1/17	[Gantt Chart for Task 51]											
52	GROUND INVESTIGATION WORKS (1 NO. BOREHOLE & TRIAL PITS)	28 days	2 days	Tue 1/11/16	Mon 28/11/16	0 days	100%	49	Tue 1/11/16	[Gantt Chart for Task 52]											
53	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Tue 1/11/16	Mon 21/11/16	0 days	100%	53SS	Tue 1/11/16	[Gantt Chart for Task 53]											
54	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 29/11/16	Mon 19/12/16	0 days	100%	53,54	Tue 29/11/16	[Gantt Chart for Task 54]											



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

REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME







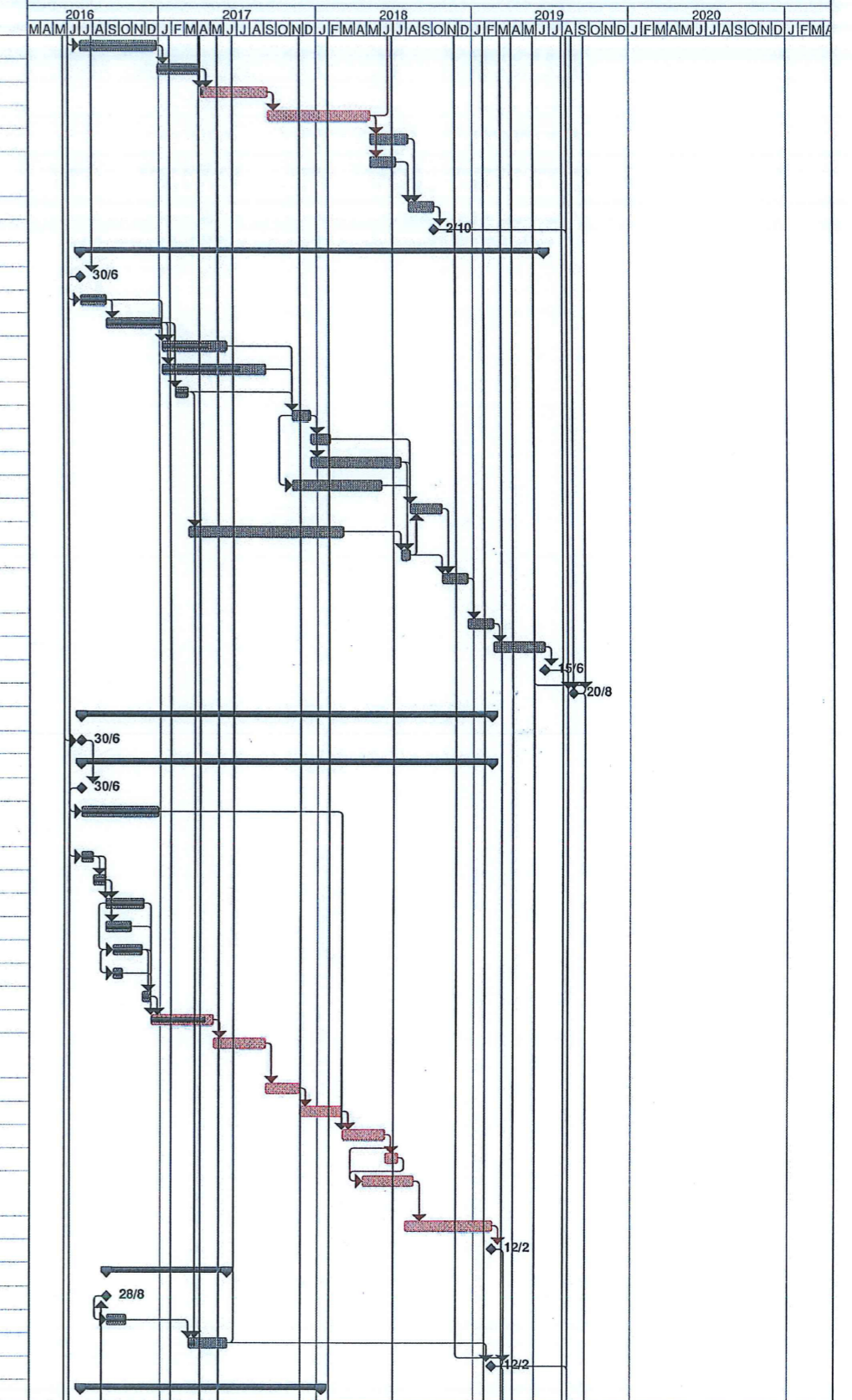


ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start	Gantt Chart (2016-2020)																																																									
										2016			2017			2018			2019			2020																																													
										M	A	M	J	J	A	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
220	RW 42 (60M)	90 days	7 days	Tue 5/9/17	Sun 3/12/17	-45 days	0%	210,219,216,150	Tue 5/9/17	[Gantt bar for 220: Tue 5/9/17 to Sun 3/12/17]																																																									
221	RW 43 (50M)	60 days	5 days	Mon 4/12/17	Thu 1/2/18	77 days	0%	210,220	Mon 4/12/17	[Gantt bar for 221: Mon 4/12/17 to Thu 1/2/18]																																																									
222	RW 44 (36M U)	60 days	5 days	Fri 2/2/18	Mon 2/4/18	77 days	0%	221	Fri 2/2/18	[Gantt bar for 222: Fri 2/2/18 to Mon 2/4/18]																																																									
223	NCE EFFECT ON ADDED WATER STOP (RW43, 44 ONLY)	12 days		Tue 3/4/18	Sat 14/4/18	77 days	0%	222	Tue 3/4/18	[Gantt bar for 223: Tue 3/4/18 to Sat 14/4/18]																																																									
224	NCE EFFECT ON ADDED CHAMFER (RW43, 44 ONLY)	6 days		Sun 15/4/18	Fri 20/4/18	77 days	0%	223	Sun 15/4/18	[Gantt bar for 224: Sun 15/4/18 to Fri 20/4/18]																																																									
225	RAMP PR3 CONSTRUCTION	30 days	3 days	Sat 21/4/18	Sun 20/5/18	77 days	0%	224	Sat 21/4/18	[Gantt bar for 225: Sat 21/4/18 to Sun 20/5/18]																																																									
226	EARTHWORKS AND DRAINAGE WORKS	240 days	21 days	Sat 21/4/18	Sun 16/12/18	77 days	0%	222,225FS-30 days	Sat 21/4/18	[Gantt bar for 226: Sat 21/4/18 to Sun 16/12/18]																																																									
227	ROAD WORKS (1.3 KM)	120 days	10 days	Mon 17/12/18	Mon 15/4/19	77 days	0%	226	Mon 17/12/18	[Gantt bar for 227: Mon 17/12/18 to Mon 15/4/19]																																																									
228	RESTING STATION R8	240 days	21 days	Fri 20/7/18	Sat 16/3/19	107 days	0%	227FF-30 days	Fri 20/7/18	[Gantt bar for 228: Fri 20/7/18 to Sat 16/3/19]																																																									
229	COMPLETION OF PORTION F	0 days		Mon 15/4/19	Mon 15/4/19	77 days	0%	227,228	Mon 15/4/19	[Gantt bar for 229: Mon 15/4/19 to Mon 15/4/19]																																																									
230	PORTION G - (BRIDGE C) CH ST 1+210 - CH ST 1+310	975 days		Thu 30/6/16	Fri 1/3/19	122 days	39%		Thu 30/6/16	[Gantt bar for 230: Thu 30/6/16 to Fri 1/3/19]																																																									
231	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	149	Thu 30/6/16	[Gantt bar for 231: Thu 30/6/16 to Thu 30/6/16]																																																									
232	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	231SS	Thu 30/6/16	[Gantt bar for 232: Thu 30/6/16 to Sun 28/8/16]																																																									
233	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	232	Mon 29/8/16	[Gantt bar for 233: Mon 29/8/16 to Thu 5/1/17]																																																									
234	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	120 days	10 days	Fri 6/1/17	Fri 5/5/17	0 days	100%	233,232	Fri 6/1/17	[Gantt bar for 234: Fri 6/1/17 to Fri 5/5/17]																																																									
235	UTILITIES DIVERSION WORKS (HKB & TGT)	150 days	0 day	Fri 6/1/17	Sun 4/6/17	0 days	100%	232,233	Fri 6/1/17	[Gantt bar for 235: Fri 6/1/17 to Sun 4/6/17]																																																									
236	PREPARATION OF TDMP FOR PRE-DRILLING WORKS	100 days	10 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	231SS	Thu 30/6/16	[Gantt bar for 236: Thu 30/6/16 to Fri 7/10/16]																																																									
237	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Sat 8/10/16	Fri 21/10/16	0 days	100%	236	Sat 8/10/16	[Gantt bar for 237: Sat 8/10/16 to Fri 21/10/16]																																																									
238	PREDRILLING WORKS FOR PILES	30 days	3 days	Sat 20/5/17	Sun 18/6/17	0 days	100%	328,237	Sat 20/5/17	[Gantt bar for 238: Sat 20/5/17 to Sun 18/6/17]																																																									
239	STARTING DATE OF DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	0 days	0%	238	Wed 1/11/17	[Gantt bar for 239: Wed 1/11/17 to Wed 1/11/17]																																																									
240	PRE-BORE H-PILE (8 NOS)	60 days	5 days	Wed 1/11/17	Sat 30/12/17	0 days	0%	239,234,235	Wed 1/11/17	[Gantt bar for 240: Wed 1/11/17 to Sat 30/12/17]																																																									
241	LOAD TEST	45 days	5 days	Sun 31/12/17	Tue 13/2/18	36 days	0%	240	Sun 31/12/17	[Gantt bar for 241: Sun 31/12/17 to Tue 13/2/18]																																																									
242	ABUTMENT CONSTRUCTION	81 days	7 days	Sun 31/12/17	Wed 21/3/18	0 days	0%	240	Sun 31/12/17	[Gantt bar for 242: Sun 31/12/17 to Wed 21/3/18]																																																									
243	REMOVAL OF DRAINAGE DIVERSION WORKS	10 days	2 days	Thu 22/3/18	Sat 31/3/18	0 days	0%	242,241	Thu 22/3/18	[Gantt bar for 243: Thu 22/3/18 to Sat 31/3/18]																																																									
244	END DATE OF DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	0 days	0%	243	Sat 31/3/18	[Gantt bar for 244: Sat 31/3/18 to Sat 31/3/18]																																																									
245	PREPARE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	21 days	Mon 19/6/17	Wed 13/6/18	122 days	0%	238	Mon 19/6/17	[Gantt bar for 245: Mon 19/6/17 to Wed 13/6/18]																																																									
246	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	21 days	2 days	Thu 14/6/18	Wed 4/7/18	122 days	0%	245,244	Thu 14/6/18	[Gantt bar for 246: Thu 14/6/18 to Wed 4/7/18]																																																									
247	BRIDGE DECK CONSTRUCTION	60 days	5 days	Thu 5/7/18	Sun 2/9/18	122 days	0%	246	Thu 5/7/18	[Gantt bar for 247: Thu 5/7/18 to Sun 2/9/18]																																																									
248	EARTHWORKS AND DRAINAGE WORKS	30 days	2 days	Mon 3/9/18	Tue 2/10/18	122 days	0%	247	Mon 3/9/18	[Gantt bar for 248: Mon 3/9/18 to Tue 2/10/18]																																																									
249	ROAD WORKS	150 days	10 days	Wed 3/10/18	Fri 1/3/19	122 days	0%	248	Wed 3/10/18	[Gantt bar for 249: Wed 3/10/18 to Fri 1/3/19]																																																									
250	BRIDGE ASSOCIATED WORKS, WATERMAIN WORKS	120 days	10 days	Thu 5/7/18	Thu 1/11/18	242 days	0%	246	Thu 5/7/18	[Gantt bar for 250: Thu 5/7/18 to Thu 1/11/18]																																																									
251	COMPLETION OF PORTION G	0 days		Fri 1/3/19	Fri 1/3/19	122 days	0%	250,249	Fri 1/3/19	[Gantt bar for 251: Fri 1/3/19 to Fri 1/3/19]																																																									
252	PORTION H (CH ST 1+310 - 1+525, 1+700 - 2+270)	1087 days		Sun 28/8/16	Tue 20/8/19	-50 days	28%		Sun 28/8/16	[Gantt bar for 252: Sun 28/8/16 to Tue 20/8/19]																																																									
253	POSSESSION OF SITE	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	149FS+60 days	Sun 28/8/16	[Gantt bar for 253: Sun 28/8/16 to Sun 28/8/16]																																																									
254	INITIAL SURVEY	65 days	4 days	Mon 29/8/16	Tue 1/11/16	0 days	100%	253SS	Mon 29/8/16	[Gantt bar for 254: Mon 29/8/16 to Tue 1/11/16]																																																									
255	TREE SURVEY	65 days	4 days	Wed 2/11/16	Thu 5/1/17	0 days	100%	254	Wed 2/11/16	[Gantt bar for 255: Wed 2/11/16 to Thu 5/1/17]																																																									
256	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Fri 6/1/17	Wed 5/4/17	152 days	80%	255	Fri 6/1/17	[Gantt bar for 256: Fri 6/1/17 to Wed 5/4/17]																																																									
257	APPLIED TTA APPROVAL FOR REALIGNMENT	180 days	14 days	Thu 6/4/17	Mon 2/10/17	135 days	20%	256	Thu 6/4/17	[Gantt bar for 257: Thu 6/4/17 to Mon 2/10/17]																																																									
258	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	300 days	0 day	Wed 2/11/16	Mon 28/8/17	7 days	40%	254	Wed 2/11/16	[Gantt bar for 258: Wed 2/11/16 to Mon 28/8/17]																																																									
259	GROUND INVESTIGATION WORKS (8 NOS. BOREHOLE & TRIAL PITS)	100 days	4 days	Sun 5/2/17	Mon 15/5/17	103.6 days	88%	256SS+30 days	Sun 5/2/17	[Gantt bar for 259: Sun 5/2/17 to Mon 15/5/17]																																																									
260	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Sun 5/2/17	Sat 25/2/17	0 days	100%	259SS	Sun 5/2/17	[Gantt bar for 260: Sun 5/2/17 to Sat 25/2/17]																																																									
261	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Tue 16/5/17	Mon 5/6/17	91 days	60%	259	Tue 16/5/17	[Gantt bar for 261: Tue 16/5/17 to Mon 5/6/17]																																																									
262	RW 49 (130M)	163 days	12 days	Fri 20/10/17	Sat 31/3/18	-45 days	0%	258,256,259,261,260,150	Fri 20/10/17	[Gantt bar for 262: Fri 20/10/17 to Sat 31/3/18]																																																									
263	RW 45A (73M)	120 days	10 days	Sun 17/6/18	Sun 14/10/18	-50 days	0%	262,280FS+42 days	Sun 17/6/18	[Gantt bar for 263: Sun 17/6/18 to Sun 14/10/18]																																																									
264	RW 45B (58M)	103 days	10 days	Mon 15/10/18	Fri 25/1/19	-50 days	0%	263	Mon 15/10/18	[Gantt bar for 264: Mon 15/10/18 to Fri 25/1/19]																																																									
265	DW1 & DW1A (130M)	112 days	10 days	Fri 15/6/18	Thu 4/10/18	-45 days	0%	269	Fri 15/6/18	[Gantt bar for 265: Fri 15/6/18 to Thu 4/10/18]																																																									
266	DW2 (92M)	110 days	10 days	Fri 5/10/18	Tue 22/1/19	-45 days	0%	265	Fri 5/10/18	[Gantt bar for 266: Fri 5/10/18 to Tue 22/1/19]																																																									
267	EARTHWORKS AND DRAINAGE WORKS	147 days	14 days	Sat 26/1/19	Fri 21/6/19	-50 days	0%	264,266FS-2 days	Sat 26/1/19	[Gantt bar for 267: Sat 26/1/19 to Fri 21/6/19]																																																									
268	PART OF ROAD WORKS FOR RE-ALIGNMENT CARRIAGEWAY	45 days	4 days	Sun 1/4/18	Tue 15/5/18	-45 days	0%	262,257	Sun 1/4/18	[Gantt bar for 268: Sun 1/4/18 to Tue 15/5/18]																																																									
269	REALIGNMENT CARRIAGEWAY	30 days	3 days	Wed 16/5/18	Thu 14/6/18	-45 days	0%	268	Wed 16/5/18	[Gantt bar for 269: Wed 16/5/18 to Thu 14/6/18]																																																									
270	ROAD WORKS	60 days	5 days	Sat 22/6/19	Tue 20/8/19	-50 days	0%	267	Sat 22/6/19	[Gantt bar for 270: Sat 22/6/19 to Tue 20/8/19]																																																									
271	COMPLETION OF PORTION H	0 days		Tue 20/8/19	Tue 20/8/19	-50 days	0%	270	Tue 20/8/19	[Gantt bar for 271: Tue 20/8/19 to Tue 20/8/19]																																																									
272	PORTION I (CH ST 1.525 - CH ST 1.70)	825 days		Thu 30/6/16	Tue 2/10/18	272 days	54%		Thu 30/6/16	[Gantt bar for 272: Thu 30/6/16 to Tue 2/10/18]																																																									
273	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16	[Gantt bar for 273: Thu 30/6/16 to Thu 30/6/16]																																																									
274	INITIAL SURVEY	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	273SS	Thu 30/6/16	[Gantt bar for 274: Thu 30/6/16 to Mon 26/12/16]																																																									
275	TREE SURVEY	190 days	14 days	Thu 30/6/16	Thu 5/1/17	0 days	100%	274SS	Thu 30/6/16	[Gantt bar for 275: Thu 30/6/16 to Thu 5/1/17]																																																									
276	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	30 days	2 days	Fri 6/1/17	Sat 4/2/17	0 days	100%	275,274	Fri 6/1/17	[Gantt bar for 276: Fri 6/1/17 to Sat 4/2/17]																																																									



REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

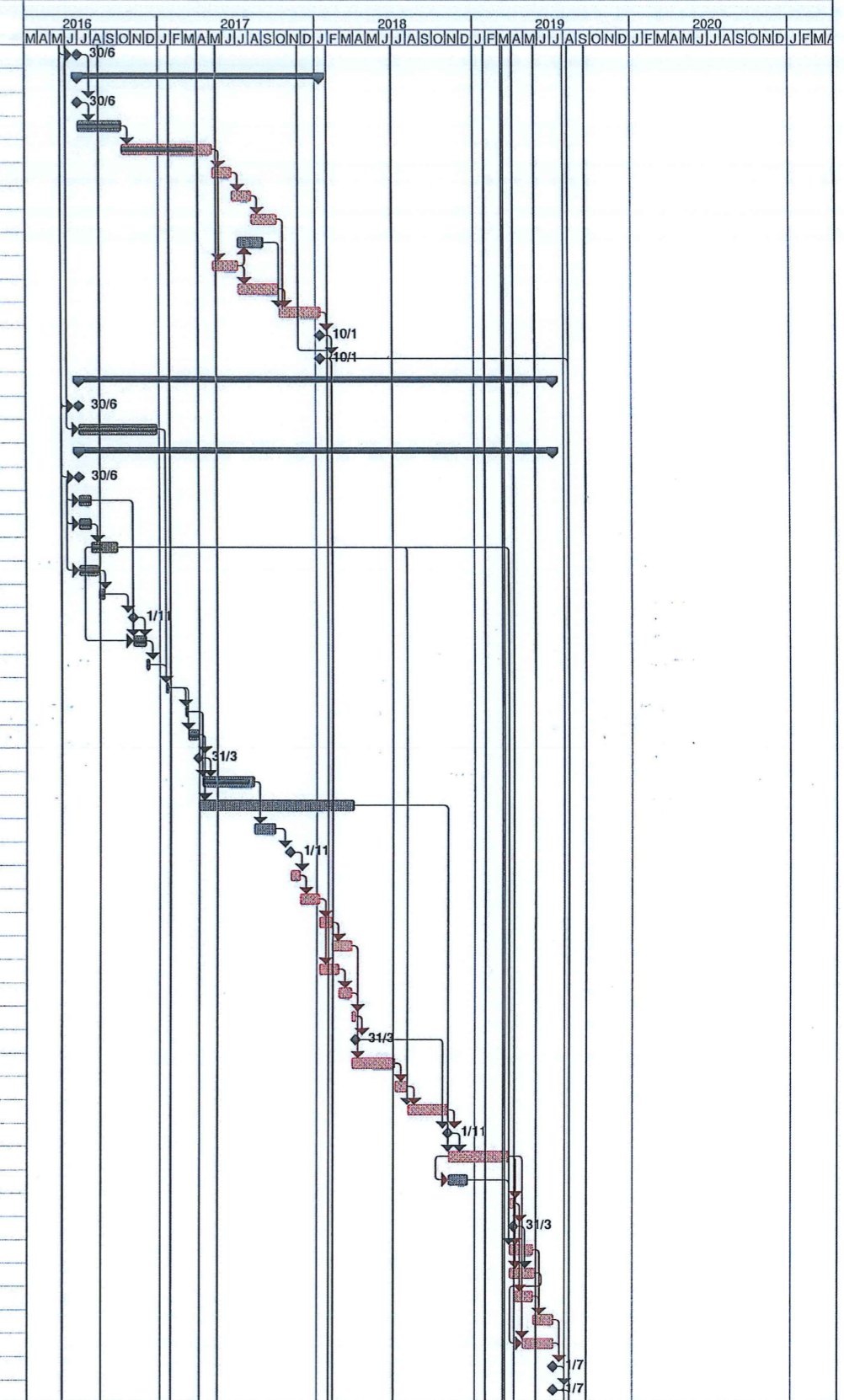
ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start
277	TTM PREPARATION	180 days	14 days	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS	Thu 30/6/16
278	TTM APPROVAL BY RSS/TMLG	100 days	5 days	Tue 27/12/16	Wed 5/4/17	0 days	100%	277	Tue 27/12/16
279	SUBWAY D WITH PUMP ROOM CONSTRUCTION (3BAYS)	155 days	14 days	Thu 6/4/17	Thu 7/9/17	-50 days	5%	278,276	Thu 6/4/17
280	RAMP (14 BAYS)	240 days	21 days	Fri 8/9/17	Sat 5/5/18	-50 days	0%	279	Fri 8/9/17
281	FINISHING WORKS AND E&M WORKS	90 days	7 days	Sun 6/5/18	Fri 3/8/18	272 days	0%	280	Sun 6/5/18
282	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Sun 6/5/18	Wed 4/7/18	302 days	0%	280	Sun 6/5/18
283	ROAD WORKS	60 days	5 days	Sat 4/8/18	Tue 2/10/18	272 days	0%	282,281	Sat 4/8/18
284	COMPLETION OF PORTION I	0 days		Tue 2/10/18	Tue 2/10/18	272 days	0%	283	Tue 2/10/18
285	PORTION N (BRIDGE B : CSD) CH ST 0.150 - CH ST 1.097	1081 days		Thu 30/6/16	Sat 15/6/19	16 days	28%		Thu 30/6/16
286	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	149	Thu 30/6/16
287	INITIAL SURVEY	60 days	5 days	Thu 30/6/16	Sun 28/8/16	0 days	100%	286SS	Thu 30/6/16
288	TREE SURVEY	130 days	10 days	Mon 29/8/16	Thu 5/1/17	0 days	100%	287	Mon 29/8/16
289	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	150 days	5 days	Fri 6/1/17	Sun 4/6/17	166 days	75%	288,287	Fri 6/1/17
290	UTILITIES DIVERSION WORKS (HKB, TGT & CLP)	240 days	10 days	Fri 6/1/17	Sat 2/9/17	76 days	75%	288	Fri 6/1/17
291	PRE-DRILLING WORKS FOR PILES	30 days	3 days	Sun 5/2/17	Mon 6/3/17	0 days	100%	288FS+30 days	Sun 5/2/17
292	PILE WORKS	45 days	4 days	Thu 2/11/17	Sat 16/12/17	16 days	0%	291FS+240 days,290,288	Thu 2/11/17
293	LOAD TEST	45 days	4 days	Sun 17/12/17	Tue 30/1/18	202 days	0%	292	Sun 17/12/17
294	ABUTMENT CONSTRUCTION	210 days	7 days	Sun 17/12/17	Sat 14/7/18	16 days	0%	292	Sun 17/12/17
295	OFFSITE FABRICATION OF BRIDGE MEMBERS	210 days	10 days	Thu 2/11/17	Wed 30/5/18	82 days	0%	292SS	Thu 2/11/17
296	STEEL TRUSS AND DECK CONSTRUCTION	75 days	7 days	Sun 5/8/18	Thu 18/10/18	16 days	0%	295,294,298,293	Sun 5/8/18
297	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	10 days	Tue 7/3/17	Thu 1/3/18	151 days	0%	291	Tue 7/3/17
298	INSTALLATION OF BEARINGS AND MOVEMENT JOINTS	21 days	2 days	Sun 15/7/18	Sat 4/8/18	16 days	0%	297,294	Sun 15/7/18
299	EARTHWORKS AND DRAINAGE WORKS	60 days	5 days	Fri 19/10/18	Mon 17/12/18	16 days	0%	296,298	Fri 19/10/18
300	ROAD WORKS	60 days	5 days	Tue 18/12/18	Fri 15/2/19	16 days	0%	299	Tue 18/12/18
301	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	120 days	10 days	Sat 16/2/19	Sat 15/6/19	16 days	0%	300	Sat 16/2/19
302	COMPLETION OF PORTION N	0 days		Sat 15/6/19	Sat 15/6/19	16 days	0%	301	Sat 15/6/19
303	COMPLETION OF SECTION W2	0 days		Tue 20/8/19	Tue 20/8/19	-50 days	0%	204,229,251,271,284,302	Tue 20/8/19
304	SECTION W3	958 days		Thu 30/6/16	Tue 12/2/19	-44 days	45%		Thu 30/6/16
305	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
306	PORTION K (CH KW 1+360 - CH KW 2+070)	958 days		Thu 30/6/16	Tue 12/2/19	-44 days	45%		Thu 30/6/16
307	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	305	Thu 30/6/16
308	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%	307SS	Thu 30/6/16
309	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	307SS	Thu 30/6/16
310	TREE SURVEY	28 days	2 days	Thu 28/7/16	Wed 24/8/16	0 days	100%	309	Thu 28/7/16
311	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	90 days	7 days	Thu 25/8/16	Tue 22/11/16	0 days	100%	310,309	Thu 25/8/16
312	UTILITIES DIVERSION WORKS (CLP, PCCW & FW MAINS)	60 days	0 day	Thu 25/8/16	Sun 23/10/16	0 days	100%	310	Thu 25/8/16
313	GROUND INVESTIGATION WORKS (4 NOS. BOREHOLES & TRIAL PITS)	68 days	5 days	Mon 12/9/16	Fri 18/11/16	0 days	100%	311SS+18 days	Mon 12/9/16
314	SUBMISSION AND APPROVAL OF MONITORING PROPOSAL	21 days	2 days	Mon 12/9/16	Sun 2/10/16	0 days	100%	313SS	Mon 12/9/16
315	INSTALLATION OF MONITORING MARKERS	21 days	2 days	Sat 19/11/16	Fri 9/12/16	0 days	100%	313	Sat 19/11/16
316	RW 29C (66M) INCLUDED AS-CONSTRUCTED PMI & NCE EFFECT	144 days	7 days	Sat 10/12/16	Tue 2/5/17	-44 days	87%	311,312,313,315,314	Sat 10/12/16
317	EARTHWORKS AND DRAINAGE WORKS, KW1+360 - KW1+460; KW 1+600 - KW1+900; KW 1+2+140 - KW 2+450	120 days	21 days	Wed 3/5/17	Wed 30/8/17	-44 days	0%	316	Wed 3/5/17
318	RW 29B (50M)	80 days	7 days	Thu 31/8/17	Sat 18/11/17	-44 days	0%	317	Thu 31/8/17
319	RW 29A (90M)	100 days	7 days	Sun 19/11/17	Mon 26/2/18	-44 days	0%	318	Sun 19/11/17
320	RW 27 (90M)	100 days	7 days	Tue 27/2/18	Wed 6/6/18	-44 days	0%	319,308	Tue 27/2/18
321	STREAM DECKING D9	30 days	7 days	Thu 7/6/18	Fri 6/7/18	-37 days	0%	320	Thu 7/6/18
322	EARTHWORKS AND DRAINAGE WORKS	120 days	21 days	Sun 15/4/18	Sun 12/8/18	-44 days	0%	321FS-90 days,320FS-53 days	Sun 15/4/18
323	ROAD WORKS	204 days	21 days	Tue 24/7/18	Tue 12/2/19	-44 days	0%	322FS-20 days	Tue 24/7/18
324	COMPLETION OF PORTION K	0 days		Tue 12/2/19	Tue 12/2/19	-44 days	0%	323	Tue 12/2/19
325	PORTION J1	280 days		Sun 28/8/16	Sun 4/6/17	574 days	45%		Sun 28/8/16
326	POSSESSION OF SITE (J1)	0 days		Sun 28/8/16	Sun 28/8/16	0 days	100%	402FS+60 days	Sun 28/8/16
327	INITIAL SURVEY	45 days	4 days	Mon 29/8/16	Wed 12/10/16	0 days	100%	326SS	Mon 29/8/16
328	SITE INVESTIGATION	90 days	10 days	Tue 7/3/17	Sun 4/6/17	574 days	17%	291,327	Tue 7/3/17
329	COMPLETION OF SECTION W3	0 days		Tue 12/2/19	Tue 12/2/19	-44 days	0%	324,328	Tue 12/2/19
330	SECTION W4 PUBLIC TOILET	560 days		Thu 30/6/16	Wed 10/1/18	-10 days	35%		Thu 30/6/16



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		

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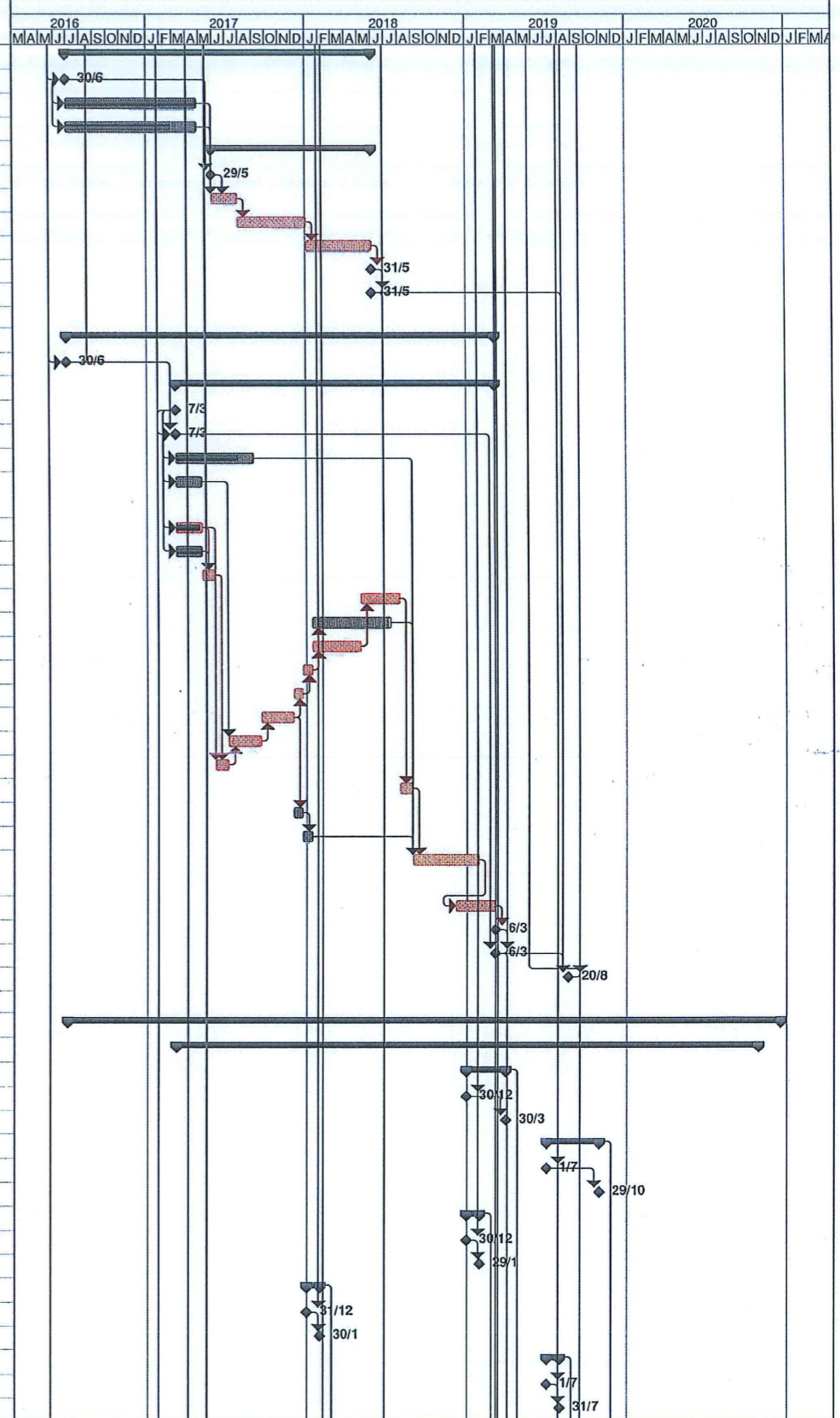
ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start
331	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
332	PORTION L	560 days		Thu 30/6/16	Wed 10/1/18	-10 days	35%		Thu 30/6/16
333	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	331	Thu 30/6/16
334	DOCUMENT SUBMISSION	100 days	7 days	Thu 30/6/16	Fri 7/10/16	0 days	100%	333	Thu 30/6/16
335	R.C. STRUCTURE	210 days	10 days	Sat 8/10/16	Fri 5/5/17	-10 days	80%	334	Sat 8/10/16
336	EQUILIZATION TANL	45 days	4 days	Sat 6/5/17	Mon 19/6/17	-5 days	0%	335	Sat 6/5/17
337	SLUDGE HOLDING TANK	45 days	4 days	Tue 20/6/17	Thu 3/8/17	-5 days	0%	336	Tue 20/6/17
338	BIO-TREATMENT FACILITY	60 days	5 days	Fri 4/8/17	Mon 2/10/17	-5 days	0%	337	Fri 4/8/17
339	STEEL HOLLOW SECTION AT ROOF	60 days	5 days	Wed 5/7/17	Sat 2/9/17	25 days	0%	340	Wed 5/7/17
340	INTERNAL FINISHES	60 days	5 days	Sat 6/5/17	Tue 4/7/17	-10 days	0%	335	Sat 6/5/17
341	E&M. WORKS AND PD INSTALLATION	95 days	7 days	Wed 5/7/17	Sat 7/10/17	-10 days	0%	340	Wed 5/7/17
342	EXTERNAL FINISHES AND SURROUNDING AREA	95 days	7 days	Sun 8/10/17	Wed 10/1/18	-10 days	0%	341,339,338	Sun 8/10/17
343	COMPLETION OF PORTION L	0 days		Wed 10/1/18	Wed 10/1/18	0 days	0%	342	Wed 10/1/18
344	COMPLETION OF SECTION W4	0 days		Wed 10/1/18	Wed 10/1/18	-10 days	0%	343	Wed 10/1/18
345	SECTION W5 (SS 0.0 - 270)	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	27%		Thu 30/6/16
346	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16
347	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Thu 30/6/16	Mon 26/12/16	0 days	100%	2SS	Thu 30/6/16
348	PORTION M (BRIDGE E)	1097 days		Thu 30/6/16	Mon 1/7/19	0 days	19%		Thu 30/6/16
349	POSSESSION OF SITE	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	346SS	Thu 30/6/16
350	INITIAL SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	349SS	Thu 30/6/16
351	TREE SURVEY	28 days	2 days	Thu 30/6/16	Wed 27/7/16	0 days	100%	349SS	Thu 30/6/16
352	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	60 days	5 days	Thu 28/7/16	Sun 25/9/16	672 days	40%	351	Thu 28/7/16
353	PREPARATION TDMP FOR PRE-DRILLING WORKS	45 days	4 days	Thu 30/6/16	Sat 13/8/16	0 days	100%	349SS	Thu 30/6/16
354	APPROVAL OF TDMP BY SUPERVISOR/DSD	14 days	2 days	Sun 14/8/16	Sat 27/8/16	0 days	100%	353	Sun 14/8/16
355	STARTING DATE OF 1ST DRY SEASON	0 days		Tue 1/11/16	Tue 1/11/16	0 days	100%	354	Tue 1/11/16
356	TEMPORARY DRAINAGE WORKS	30 days	4 days	Tue 1/11/16	Wed 30/11/16	0 days	100%	355,350,352SS+10 days	Tue 1/11/16
357	PRE-DRILLING WORKS FOR PILES AT GRID 2	7 days	4 days	Thu 1/12/16	Wed 7/12/16	0 days	100%	356	Thu 1/12/16
358	PRE-DRILLING WORKS FOR PILES AT GRID 3	7 days	4 days	Sun 15/1/17	Sat 21/1/17	0 days	100%	357,347	Sun 15/1/17
359	PRE-DRILLING WORKS FOR PILES AT GRID 1	7 days	4 days	Wed 1/3/17	Tue 7/3/17	0 days	100%	358	Wed 1/3/17
360	REMOVAL OF TEMPORARY DRAINAGE WORK	24 days	2 days	Wed 8/3/17	Fri 31/3/17	0 days	100%	358FS+7 days	Wed 8/3/17
361	END DATE OF 1ST DRY SEASON	0 days		Fri 31/3/17	Fri 31/3/17	0 days	100%	360	Fri 31/3/17
362	PREPARATION OF TDMP FOR PILING WORKS	120 days	7 days	Mon 10/4/17	Mon 7/8/17	35 days	90%	361,359	Mon 10/4/17
363	PROCURE AND DELIVERY OF BEARINGS AND MOVEMENT JOINTS	360 days	30 days	Sat 1/4/17	Mon 28/3/18	219 days	0%	360	Sat 1/4/17
364	APPROVAL OF TDMP BY SUPERVISOR/DSD	50 days	2 days	Tue 8/8/17	Tue 26/9/17	35 days	0%	362	Tue 8/8/17
365	STARTING DATE OF 2ND DRY SEASON	0 days		Wed 1/11/17	Wed 1/11/17	0 days	0%	364	Wed 1/11/17
366	TEMPORARY DRAINAGE WORKS (2ND DRY SEASON)	21 days	2 days	Wed 1/11/17	Tue 21/11/17	0 days	0%	365	Wed 1/11/17
367	PILING WORKS AT GRID 2	45 days	4 days	Wed 22/11/17	Fri 5/1/18	0 days	0%	366	Wed 22/11/17
368	PILE CAP AT GRID 2	30 days	3 days	Sat 6/1/18	Sun 4/2/18	0 days	0%	367	Sat 6/1/18
369	PIER CONSTRUCTION AT GRID 2	45 days	4 days	Mon 5/2/18	Wed 21/3/18	0 days	0%	368	Mon 5/2/18
370	PILING WORKS AT GRID 3	45 days	4 days	Sat 6/1/18	Mon 19/2/18	0 days	0%	367	Sat 6/1/18
371	PILE CAP AT GRID 3	30 days	3 days	Tue 20/2/18	Wed 21/3/18	0 days	0%	370	Tue 20/2/18
372	REMOVAL OF TEMPORARY DRAINAGE WORK	10 days	2 days	Thu 22/3/18	Sat 31/3/18	0 days	0%	371,369	Thu 22/3/18
373	END DATE OF 2ND DRY SEASON	0 days		Sat 31/3/18	Sat 31/3/18	0 days	0%	372	Sat 31/3/18
374	PILING WORKS AT GRID 1 WITH ALL PILE LOAD TESTING	100 days	7 days	Thu 22/3/18	Fri 29/6/18	0 days	0%	371	Thu 22/3/18
375	PILE CAP AT GRID 1	30 days	3 days	Sat 30/6/18	Sun 29/7/18	0 days	0%	374	Sat 30/6/18
376	ABUTMENT AT GRID 1	94 days	7 days	Mon 30/7/18	Wed 31/10/18	0 days	0%	375,352	Mon 30/7/18
377	STARTING DATE OF 3RD DRY SEASON	0 days		Thu 1/11/18	Thu 1/11/18	0 days	0%	376,373FS+214 days	Thu 1/11/18
378	BRIDGE DECK CONSTRUCTION WITH TEMPORARY DRAINAGE WORKS	141 days	10 days	Thu 1/11/18	Thu 21/3/19	0 days	0%	377,363	Thu 1/11/18
379	ABUTMENT AND MOVEMENT JOINT AT GRID 3	45 days	4 days	Thu 1/11/18	Sat 15/12/18	96 days	0%	378SS	Thu 1/11/18
380	REMOVAL OF TEMPORARY DRAINAGE WORK	10 days	2 days	Fri 22/3/19	Sun 31/3/19	0 days	0%	378	Fri 22/3/19
381	END DATE OF 3RD DRY SEASON	0 days		Sun 31/3/19	Sun 31/3/19	0 days	0%	380	Sun 31/3/19
382	RAMP	55 days	5 days	Fri 22/3/19	Wed 15/5/19	0 days	0%	378,379,352	Fri 22/3/19
383	STEEL STRUCTURAL ROOF WORKS	60 days	5 days	Fri 22/3/19	Mon 20/5/19	0 days	0%	378,381FS-10 days	Fri 22/3/19
384	EARTHWORKS AND DRAINAGE WORKS	45 days	4 days	Mon 1/4/19	Wed 15/5/19	0 days	0%	380	Mon 1/4/19
385	ROAD WORKS	47 days	4 days	Thu 16/5/19	Mon 1/7/19	0 days	0%	384,382	Thu 16/5/19
386	BRIDGE ASSOCIATED WORKS AND WATERMAIN WORKS	72 days	7 days	Sun 21/4/19	Mon 1/7/19	0 days	0%	378FS+30 days,383FS-3	Sun 21/4/19
387	COMPLETION OF PORTION M	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	385,386	Mon 1/7/19
388	COMPLETION OF SECTION W5	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	387	Mon 1/7/19



Task		Summary		Inactive Summary		Finish-only	
Split		Project Summary		Manual Task		Critical	
Milestone		External Tasks		Duration-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	Start	2016	2017	2018	2019	2020
389	SECTION W6 (TM0.0 - 960)	701 days		Thu 30/6/16	Thu 31/5/18	0 days	56%		Thu 30/6/16					
390	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	0 days	100%	2SS	Thu 30/6/16					
391	APPLICATION OF EXCAVATION PERMIT	300 days	10 days	Thu 30/6/16	Tue 25/4/17	0 days	100%	390SS	Thu 30/6/16					
392	APPLICATION AND OBTAIN APPROVAL FROM MTRC FOR WORKS AT RPA	300 days	10 days	Thu 30/6/16	Tue 25/4/17	34 days	80%	390SS	Thu 30/6/16					
393	PORTION P	367 days		Mon 29/5/17	Thu 31/5/18	0 days	0%		Mon 29/5/17					
394	POSSESSION OF SITE	0 days		Mon 29/5/17	Mon 29/5/17	0 days	0%	390FS+334 days,392	Mon 29/5/17					
395	DOCUMENT SUBMISSION	60 days	5 days	Tue 30/5/17	Fri 28/7/17	0 days	0%	394,391,392	Tue 30/5/17					
396	DRAINAGE WORKS	157 days	10 days	Sat 29/7/17	Mon 1/1/18	0 days	0%	395	Sat 29/7/17					
397	ROAD WORKS	150 days	10 days	Tue 2/1/18	Thu 31/5/18	0 days	0%	396	Tue 2/1/18					
398	COMPLETION OF PORTION P	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	397	Thu 31/5/18					
399	COMPLETION OF SECTION W6	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	398	Thu 31/5/18					
400														
401	SECTION W7 (ST2.27 - 2.73, KW 0 - 1.35)	980 days		Thu 30/6/16	Wed 6/3/19	652 days	20%		Thu 30/6/16					
402	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1632 days	0%	2SS	Thu 30/6/16					
403	PORTION J2, J3	730 days		Tue 7/3/17	Wed 6/3/19	0 days	20%		Tue 7/3/17					
404	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	506 days	0%		Tue 7/3/17					
405	POSSESSION OF SITE (J2, J3)	0 days		Tue 7/3/17	Tue 7/3/17	0 days	100%	404SS,402	Tue 7/3/17					
406	APPLICATION OF EXCAVATION PERMIT	180 days	0 day	Tue 7/3/17	Sat 2/9/17	362 days	80%	404SS	Tue 7/3/17					
407	CONDITION SURVEY FOR PERMANENT STRUCTURE ADJACENT TO 2 STORIES HEIGHT TEMP. BLDG	60 days	2 days	Tue 7/3/17	Fri 5/5/17	60 days	0%	405SS	Tue 7/3/17					
408	INITIAL SURVEY	60 days	2 days	Tue 7/3/17	Fri 5/5/17	0 days	90%	405SS	Tue 7/3/17					
409	TREE SURVEY	60 days	2 days	Tue 7/3/17	Fri 5/5/17	0 days	100%	405SS	Tue 7/3/17					
410	TREE FELLING/TRANSPLANTING AND SITE CLEARANCE	30 days	3 days	Sat 6/5/17	Sun 4/6/17	0 days	0%	409,408	Sat 6/5/17					
411	RW 46 (67M)	90 days	7 days	Thu 3/5/18	Tue 31/7/18	0 days	0%	413	Thu 3/5/18					
412	RW 47 (83 NOS OF SOILDER PILES)	180 days		Sat 13/1/18	Wed 11/7/18	50 days	0%	414	Sat 13/1/18					
413	RW 48 (110M)	110 days	5 days	Sat 13/1/18	Wed 2/5/18	0 days	0%	414	Sat 13/1/18					
414	RW 24A (20M)	21 days	2 days	Sat 23/12/17	Fri 12/1/18	0 days	0%	415	Sat 23/12/17					
415	RW 24B (18M)	21 days	2 days	Sat 2/12/17	Fri 22/12/17	0 days	0%	416	Sat 2/12/17					
416	RW 24C (82M)	75 days	7 days	Mon 18/9/17	Fri 1/12/17	0 days	0%	417	Mon 18/9/17					
417	RW 25 (83M)	75 days	7 days	Wed 5/7/17	Sun 17/9/17	0 days	0%	418,407	Wed 5/7/17					
418	RW 26 (20M)	30 days	2 days	Mon 5/6/17	Tue 4/7/17	0 days	0%	408,410	Mon 5/6/17					
419	STREAM DECKING D8	30 days	2 days	Wed 1/8/18	Thu 30/8/18	0 days	0%	411	Wed 1/8/18					
420	PROVIDE SAFETY ACCESS TO RESIDENT	21 days	2 days	Sat 2/12/17	Fri 22/12/17	230 days	0%	416	Sat 2/12/17					
421	DEMOLITION OF EXISTING STRUCTURE	21 days	3 days	Sat 23/12/17	Fri 12/1/18	230 days	0%	420	Sat 23/12/17					
422	EARTHWORKS AND DRAINAGE WORKS	150 days	10 days	Fri 31/8/18	Sun 27/1/19	0 days	0%	421,419,412,406	Fri 31/8/18					
423	ROAD WORKS	90 days	7 days	Fri 7/12/18	Wed 6/3/19	0 days	0%	422FS-52 days	Fri 7/12/18					
424	COMPLETION OF PORTION J	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	423	Wed 6/3/19					
425	COMPLETION OF SECTION W7	0 days		Wed 6/3/19	Wed 6/3/19	0 days	0%	424,405FS+730 days	Wed 6/3/19					
426	COMPLETION FROM SECTION W1 TO SECTION W7	0 days		Tue 20/8/19	Tue 20/8/19	-50 days	0%	425,399,388,344,329,300	Tue 20/8/19					
427														
428	LANDSCAPING SOFTWARES AND ESTABLISHMENT WORK	1632 days		Thu 30/6/16	Thu 17/12/20	0 days	0%		Thu 30/6/16					
429	ACCESS DATES AND COMPLETION DATES FOR CONTRACTS	1332 days		Tue 7/3/17	Wed 28/10/20	0 days	0%		Tue 7/3/17					
430	SECTION W8A	90 days		Sun 30/12/18	Sat 30/3/19	0 days	0%		Sun 30/12/18					
431	ACCESS DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	4	Sun 30/12/18					
432	COMPLETION DATE	0 days		Sat 30/3/19	Sat 30/3/19	0 days	0%	431FS+90 days	Sat 30/3/19					
433	SECTION W8B	120 days		Mon 1/7/19	Tue 29/10/19	0 days	0%		Mon 1/7/19					
434	ACCESS DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	10	Mon 1/7/19					
435	COMPLETION DATE	0 days		Tue 29/10/19	Tue 29/10/19	0 days	0%	434FS+120 days	Tue 29/10/19					
436	SECTION W8C	30 days		Sun 30/12/18	Tue 29/1/19	0 days	0%		Sun 30/12/18					
437	ACCESS DATE	0 days		Sun 30/12/18	Sun 30/12/18	0 days	0%	18	Sun 30/12/18					
438	COMPLETION DATE	0 days		Tue 29/1/19	Tue 29/1/19	0 days	0%	437FS+30 days	Tue 29/1/19					
439	SECTION W8D	30 days		Sun 31/12/17	Tue 30/1/18	0 days	0%		Sun 31/12/17					
440	ACCESS DATE	0 days		Sun 31/12/17	Sun 31/12/17	0 days	0%	24	Sun 31/12/17					
441	COMPLETION DATE	0 days		Tue 30/1/18	Tue 30/1/18	0 days	0%	440FS+30 days	Tue 30/1/18					
442	SECTION W8E	30 days		Mon 1/7/19	Wed 31/7/19	0 days	0%		Mon 1/7/19					
443	ACCESS DATE	0 days		Mon 1/7/19	Mon 1/7/19	0 days	0%	28	Mon 1/7/19					
444	COMPLETION DATE	0 days		Wed 31/7/19	Wed 31/7/19	0 days	0%	443FS+30 days	Wed 31/7/19					



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		

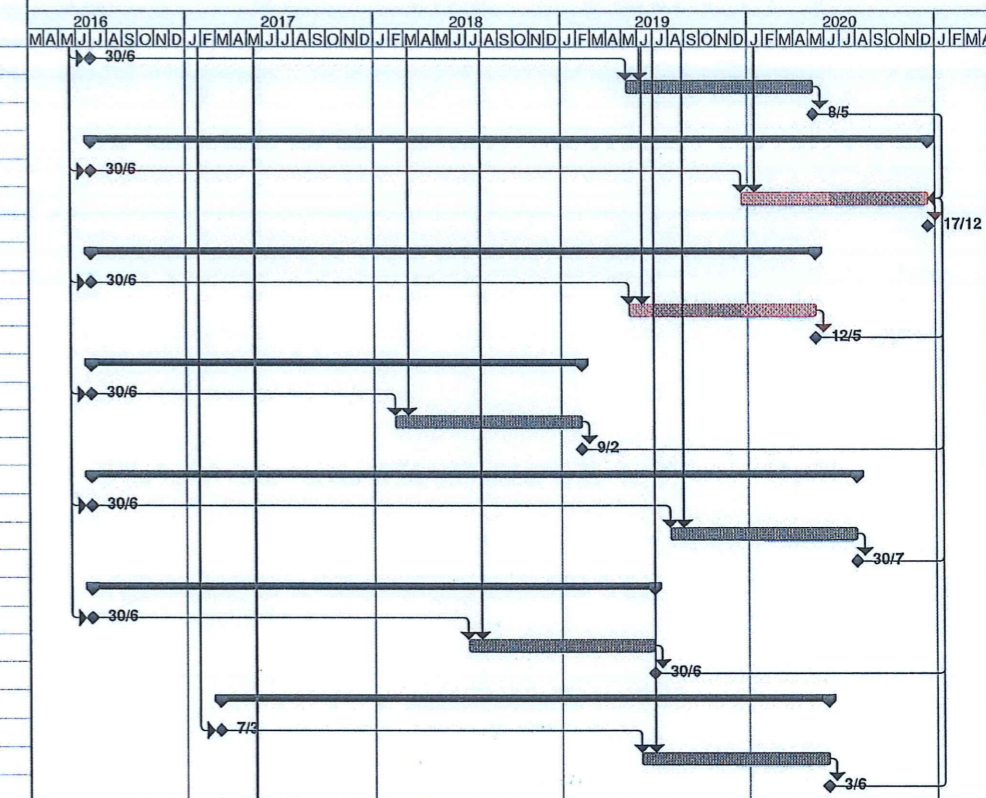
REMARK: ALL SUNDAYS AND HOLIDAYS ARE INCLUDED IN THIS PROGRAMME

ID	Task Name	Duration	Time Risk Allowance (days)	Early Start	Early Finish	Float	% Complete	Predecessors	Start	2016 2017 2018 2019 2020																																																														
										M	A	M	J	J	A	I	S	O	N	D	J	F	M	A	M	J	J	A	I	S	O	N	D	J	F	M	A	M	J	J	A	I	S	O	N	D	J	F	M	A	M	J	J	A	I	S	O	N	D	J	F	M	A	M	J	J	A	I	S	O	N	D
445	SECTION W8F	30 days		Thu 31/5/18	Sat 30/6/18	0 days	0%		Thu 31/5/18	[Gantt chart bars for 445]																																																														
446	ACCESS DATE	0 days		Thu 31/5/18	Thu 31/5/18	0 days	0%	32	Thu 31/5/18	[Gantt chart bars for 446]																																																														
447	COMPLETION DATE	0 days		Sat 30/6/18	Sat 30/6/18	0 days	0%	446FS+30 days	Sat 30/6/18	[Gantt chart bars for 447]																																																														
448	SECTION W8G	820 days		Tue 7/3/17	Tue 4/6/19	0 days	0%		Tue 7/3/17	[Gantt chart bars for 448]																																																														
449	ACCESS DATE	0 days		Tue 7/3/17	Tue 7/3/17	730 days	0%	37	Tue 7/3/17	[Gantt chart bars for 449]																																																														
450	COMPLETION DATE	0 days		Tue 4/6/19	Tue 4/6/19	0 days	0%	449FS+90 days	Tue 4/6/19	[Gantt chart bars for 450]																																																														
451	SECTION W9A	365 days		Sat 30/3/19	Sun 29/3/20	0 days	0%		Sat 30/3/19	[Gantt chart bars for 451]																																																														
452	ACCESS DATE	0 days		Sat 30/3/19	Sat 30/3/19	0 days	0%	430	Sat 30/3/19	[Gantt chart bars for 452]																																																														
453	COMPLETION DATE	0 days		Sun 29/3/20	Sun 29/3/20	0 days	0%	452FS+365 days	Sun 29/3/20	[Gantt chart bars for 453]																																																														
454	SECTION W9B	365 days		Tue 29/10/19	Wed 28/10/20	0 days	0%		Tue 29/10/19	[Gantt chart bars for 454]																																																														
455	ACCESS DATE	0 days		Tue 29/10/19	Tue 29/10/19	0 days	0%	433	Tue 29/10/19	[Gantt chart bars for 455]																																																														
456	COMPLETION DATE	0 days		Wed 28/10/20	Wed 28/10/20	0 days	0%	455FS+365 days	Wed 28/10/20	[Gantt chart bars for 456]																																																														
457	SECTION W9C	365 days		Tue 29/1/19	Wed 29/1/20	0 days	0%		Tue 29/1/19	[Gantt chart bars for 457]																																																														
458	ACCESS DATE	0 days		Tue 29/1/19	Tue 29/1/19	0 days	0%	436	Tue 29/1/19	[Gantt chart bars for 458]																																																														
459	COMPLETION DATE	0 days		Wed 29/1/20	Wed 29/1/20	0 days	0%	458FS+365 days	Wed 29/1/20	[Gantt chart bars for 459]																																																														
460	SECTION W9D	365 days		Tue 30/1/18	Wed 30/1/19	0 days	0%		Tue 30/1/18	[Gantt chart bars for 460]																																																														
461	ACCESS DATE	0 days		Tue 30/1/18	Tue 30/1/18	0 days	0%	439	Tue 30/1/18	[Gantt chart bars for 461]																																																														
462	COMPLETION DATE	0 days		Wed 30/1/19	Wed 30/1/19	0 days	0%	461FS+365 days	Wed 30/1/19	[Gantt chart bars for 462]																																																														
463	SECTION W9E	365 days		Wed 31/7/19	Thu 30/7/20	0 days	0%		Wed 31/7/19	[Gantt chart bars for 463]																																																														
464	ACCESS DATE	0 days		Wed 31/7/19	Wed 31/7/19	0 days	0%	442	Wed 31/7/19	[Gantt chart bars for 464]																																																														
465	COMPLETION DATE	0 days		Thu 30/7/20	Thu 30/7/20	0 days	0%	464FS+365 days	Thu 30/7/20	[Gantt chart bars for 465]																																																														
466	SECTION W9F	365 days		Sat 30/6/18	Sun 30/6/19	0 days	0%		Sat 30/6/18	[Gantt chart bars for 466]																																																														
467	ACCESS DATE	0 days		Sat 30/6/18	Sat 30/6/18	0 days	0%	445	Sat 30/6/18	[Gantt chart bars for 467]																																																														
468	COMPLETION DATE	0 days		Sun 30/6/19	Sun 30/6/19	0 days	0%	467FS+365 days	Sun 30/6/19	[Gantt chart bars for 468]																																																														
469	SECTION W9G	365 days		Tue 4/6/19	Wed 3/6/20	0 days	0%		Tue 4/6/19	[Gantt chart bars for 469]																																																														
470	ACCESS DATE	0 days		Tue 4/6/19	Tue 4/6/19	0 days	0%	448	Tue 4/6/19	[Gantt chart bars for 470]																																																														
471	COMPLETION DATE	0 days		Wed 3/6/20	Wed 3/6/20	0 days	0%	470FS+365 days	Wed 3/6/20	[Gantt chart bars for 471]																																																														
472										[Gantt chart bars for 472]																																																														
473	PLANNED WORK PROGRAMME	1632 days		Thu 30/6/16	Thu 17/12/20	0 days	0%		Thu 30/6/16	[Gantt chart bars for 473]																																																														
474	SECTION W8A	1044 days		Thu 30/6/16	Thu 9/5/19	5 days	0%		Thu 30/6/16	[Gantt chart bars for 474]																																																														
475	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	959 days	0%	2SS	Thu 30/6/16	[Gantt chart bars for 475]																																																														
476	LANDSCAPING SOFTWORKS	90 days	7 days	Sat 9/2/19	Thu 9/5/19	5 days	0%	147,475	Sat 9/2/19	[Gantt chart bars for 476]																																																														
477	COMPLETION OF SECTION W8A	0 days		Thu 9/5/19	Thu 9/5/19	5 days	0%	476	Thu 9/5/19	[Gantt chart bars for 477]																																																														
478	SECTION W8B	1267 days		Thu 30/6/16	Wed 18/12/19	0 days	0%		Thu 30/6/16	[Gantt chart bars for 478]																																																														
479	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1147 days	0%	2SS	Thu 30/6/16	[Gantt chart bars for 479]																																																														
480	LANDSCAPING SOFTWORKS	120 days	10 days	Wed 21/8/19	Wed 18/12/19	0 days	0%	479,303	Wed 21/8/19	[Gantt chart bars for 480]																																																														
481	COMPLETION OF SECTION W8B	0 days		Wed 18/12/19	Wed 18/12/19	0 days	0%	480	Wed 18/12/19	[Gantt chart bars for 481]																																																														
482	SECTION W8C	1048 days		Thu 30/6/16	Mon 13/5/19	0 days	0%		Thu 30/6/16	[Gantt chart bars for 482]																																																														
483	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	958 days	0%	2SS	Thu 30/6/16	[Gantt chart bars for 483]																																																														
484	LANDSCAPING SOFTWORKS	90 days	7 days	Wed 13/2/19	Mon 13/5/19	0 days	0%	329,483	Wed 13/2/19	[Gantt chart bars for 484]																																																														
485	COMPLETION OF SECTION W8C	0 days		Mon 13/5/19	Mon 13/5/19	0 days	0%	484	Mon 13/5/19	[Gantt chart bars for 485]																																																														
486	SECTION W8D	590 days		Thu 30/6/16	Fri 9/2/18	5 days	0%		Thu 30/6/16	[Gantt chart bars for 486]																																																														
487	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	565 days	0%	2SS	Thu 30/6/16	[Gantt chart bars for 487]																																																														
488	LANDSCAPING SOFTWORKS	30 days	3 days	Thu 11/1/18	Fri 9/2/18	5 days	0%	344,487	Thu 11/1/18	[Gantt chart bars for 488]																																																														
489	COMPLETION OF SECTION W8D	0 days		Fri 9/2/18	Fri 9/2/18	5 days	0%	488	Fri 9/2/18	[Gantt chart bars for 489]																																																														
490	SECTION W8E	1127 days		Thu 30/6/16	Wed 31/7/19	5 days	0%		Thu 30/6/16	[Gantt chart bars for 490]																																																														
491	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1102 days	0%	2SS	Thu 30/6/16	[Gantt chart bars for 491]																																																														
492	LANDSCAPING SOFTWORKS	30 days	3 days	Tue 2/7/19	Wed 31/7/19	5 days	0%	388,491	Tue 2/7/19	[Gantt chart bars for 492]																																																														
493	COMPLETION OF SECTION W8E	0 days		Wed 31/7/19	Wed 31/7/19	5 days	0%	492	Wed 31/7/19	[Gantt chart bars for 493]																																																														
494	SECTION W8F	731 days		Thu 30/6/16	Sat 30/6/18	5 days	0%		Thu 30/6/16	[Gantt chart bars for 494]																																																														
495	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	706 days	0%	2SS	Thu 30/6/16	[Gantt chart bars for 495]																																																														
496	LANDSCAPING SOFTWORKS	30 days	3 days	Fri 1/6/18	Sat 30/6/18	5 days	0%	495,399	Fri 1/6/18	[Gantt chart bars for 496]																																																														
497	COMPLETION OF SECTION W8F	0 days		Sat 30/6/18	Sat 30/6/18	5 days	0%	496	Sat 30/6/18	[Gantt chart bars for 497]																																																														
498	SECTION W8G	820 days		Tue 7/3/17	Tue 4/6/19	5 days	0%		Tue 7/3/17	[Gantt chart bars for 498]																																																														
499	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	735 days	0%	37SS	Tue 7/3/17	[Gantt chart bars for 499]																																																														
500	LANDSCAPING SOFTWORKS	90 days	7 days	Thu 7/3/19	Tue 4/6/19	5 days	0%	425,499	Thu 7/3/19	[Gantt chart bars for 500]																																																														
501	COMPLETION OF SECTION W8G	0 days		Tue 4/6/19	Tue 4/6/19	5 days	0%	500	Tue 4/6/19	[Gantt chart bars for 501]																																																														
502	SECTION W9A	1409 days		Thu 30/6/16	Fri 8/5/20	5 days	0%		Thu 30/6/16	[Gantt chart bars for 502]																																																														

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	Start
503	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1049 days	0%	2SS	Thu 30/6/16
504	ESTABLISHMENT WORKS	365 days	30 days	Fri 10/5/19	Fri 8/5/20	5 days	0%	477,503	Fri 10/5/19
505	COMPLETION OF SECTION W9A	0 days		Fri 8/5/20	Fri 8/5/20	5 days	0%	504	Fri 8/5/20
506	SECTION W9B	1632 days		Thu 30/6/16	Thu 17/12/20	0 days	0%		Thu 30/6/16
507	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1267 days	0%	2SS	Thu 30/6/16
508	ESTABLISHMENT WORKS	365 days	30 days	Thu 19/12/19	Thu 17/12/20	0 days	0%	481,507,505FF+218 days	Thu 19/12/19
509	COMPLETION OF SECTION W9B	0 days		Thu 17/12/20	Thu 17/12/20	0 days	0%	508	Thu 17/12/20
510	SECTION W9C	1413 days		Thu 30/6/16	Tue 12/5/20	0 days	0%		Thu 30/6/16
511	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1048 days	0%	2SS	Thu 30/6/16
512	ESTABLISHMENT WORKS	365 days	30 days	Tue 14/5/19	Tue 12/5/20	0 days	0%	485,511	Tue 14/5/19
513	COMPLETION OF SECTION W9C	0 days		Tue 12/5/20	Tue 12/5/20	0 days	0%	512	Tue 12/5/20
514	SECTION W9D	955 days		Thu 30/6/16	Sat 9/2/19	5 days	0%		Thu 30/6/16
515	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	595 days	0%	2SS	Thu 30/6/16
516	ESTABLISHMENT WORKS	365 days	30 days	Sat 10/2/18	Sat 9/2/19	5 days	0%	489,515	Sat 10/2/18
517	COMPLETION OF SECTION W9D	0 days		Sat 9/2/19	Sat 9/2/19	5 days	0%	516	Sat 9/2/19
518	SECTION W9E	1492 days		Thu 30/6/16	Thu 30/7/20	5 days	0%		Thu 30/6/16
519	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	1132 days	0%	2SS	Thu 30/6/16
520	ESTABLISHMENT WORKS	365 days	30 days	Thu 1/8/19	Thu 30/7/20	5 days	0%	493,519	Thu 1/8/19
521	COMPLETION OF SECTION W9E	0 days		Thu 30/7/20	Thu 30/7/20	5 days	0%	520	Thu 30/7/20
522	SECTION W9F	1096 days		Thu 30/6/16	Sun 30/6/19	5 days	0%		Thu 30/6/16
523	STARTING DATE OF CONTRACT	0 days		Thu 30/6/16	Thu 30/6/16	736 days	0%	2SS	Thu 30/6/16
524	ESTABLISHMENT WORKS	365 days	30 days	Sun 1/7/18	Sun 30/6/19	5 days	0%	497,523	Sun 1/7/18
525	COMPLETION OF SECTION W9F	0 days		Sun 30/6/19	Sun 30/6/19	5 days	0%	524	Sun 30/6/19
526	SECTION W9G	1185 days		Tue 7/3/17	Wed 3/6/20	5 days	0%		Tue 7/3/17
527	INSTRUCTION TO EXECISE	0 days		Tue 7/3/17	Tue 7/3/17	825 days	0%	37SS	Tue 7/3/17
528	ESTABLISHMENT WORKS	365 days	30 days	Wed 5/6/19	Wed 3/6/20	5 days	0%	501,527	Wed 5/6/19
529	COMPLETION OF SECTION W8A	0 days		Wed 3/6/20	Wed 3/6/20	5 days	0%	528	Wed 3/6/20



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

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

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## 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.



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**APPENDIX C  
COPIES OF CALIBRATION  
CERTIFICATES**

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## TEST REPORT

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

Test Report No.:	C/N/160917C
Date of Issue:	2016-09-19
Date Received:	2016-09-17
Date Tested:	2016-09-17
Date Completed:	2016-09-19
Next Due Date:	2017-09-18

**ATTN:** Mr. W.K. Tang

Page: 1 of 1

### Certificate of Calibration

**Item for calibration:**

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 955
Serial No.	: 12563
Microphone No.	: 34377
Equipment No.	: N-08-03

**Test conditions:**

Room Temperature	: 24 degree Celsius
Relative Humidity	: 57%

**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/161230
Date of Issue:	2017-01-03
Date Received:	2016-12-30
Date Tested:	2016-12-30
Date Completed:	2017-01-03
Next Due Date:	2018-01-02

**ATTN:** Mr. W. K. Tang

Page: 1 of 1

### Certificate of Calibration

**Item for calibration:**

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 955
Serial No.	: 14303
Microphone No.	: 35222
Equipment No.	: N-08-05

**Test conditions:**

Room Temperature	: 21 degree Celsius
Relative Humidity	: 62 %

**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

Remark: 1) This report supersedes the one dated 2012/01/21 with certificate number C/N/120120/1.

*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/160826A
Date of Issue:	2016-08-29
Date Received:	2016-08-26
Date Tested:	2016-08-26
Date Completed:	2016-08-29
Next Due Date:	2017-08-28

**ATTN:** Mr. W.K. Tang

Page: 1 of 1

### Certificate of Calibration

#### Item for calibration:

Description	: 'SVANTEK' Integrating Sound Level Meter
Manufacturer	: SVANTEK
Model No.	: SVAN 957
Serial No.	: 21455
Microphone No.	: 43730
Equipment No.	: N-08-07

#### Test conditions:

Room Temperature	: 25 degree Celsius
Relative Humidity	: 57%

#### 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

Page: 1 of 1

### 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/160930A
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

Page: 1 of 1

### Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24803
Equipment No.	: N-09-03

### 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/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

Page: 1 of 1

### 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/160930C
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

Page: 1 of 1

### Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24780
Equipment No.	: N-09-05

### 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



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**APPENDIX D  
ENVIRONMENTAL MONITORING  
SCHEDULES**

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Jun	2-Jun	3-Jun
					Noise	
4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun
				Noise		
11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun
			Noise			
18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun
		Noise				
25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	30-Jun	
					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 (July 2017)**

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

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

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**APPENDIX E  
NOISE MONITORING RESULTS AND  
GRAPHICAL PRESENTATIONS**

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## 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 <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
2-Jun-17	9:00	Sunny	61.6	63.6	55.5	62.2	61.6 Measured ≤ Baseline
8-Jun-17	9:10	Sunny	63.6	65.9	58.8		58.0
14-Jun-17	9:15	Cloudy	62.0	63.6	57.2		62.0 Measured ≤ Baseline
20-Jun-17	9:00	Cloudy	60.9	63.3	57.2		60.9 Measured ≤ Baseline
30-Jun-17	9:00	Sunny	61.9	64.3	60.2		61.9 Measured ≤ Baseline

Location N2 - Bethel High School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
2-Jun-17	9:45	Sunny	61.3	63.6	52.2	55.2	60.1
8-Jun-17	10:10	Sunny	60.3	62.1	56.9		58.7
14-Jun-17	10:05	Cloudy	59.2	62.5	57.1		57.0
20-Jun-17	9:45	Cloudy	58.6	60.4	55.4		55.9
30-Jun-17	9:15	Sunny	59.2	60.4	52.3		57.0

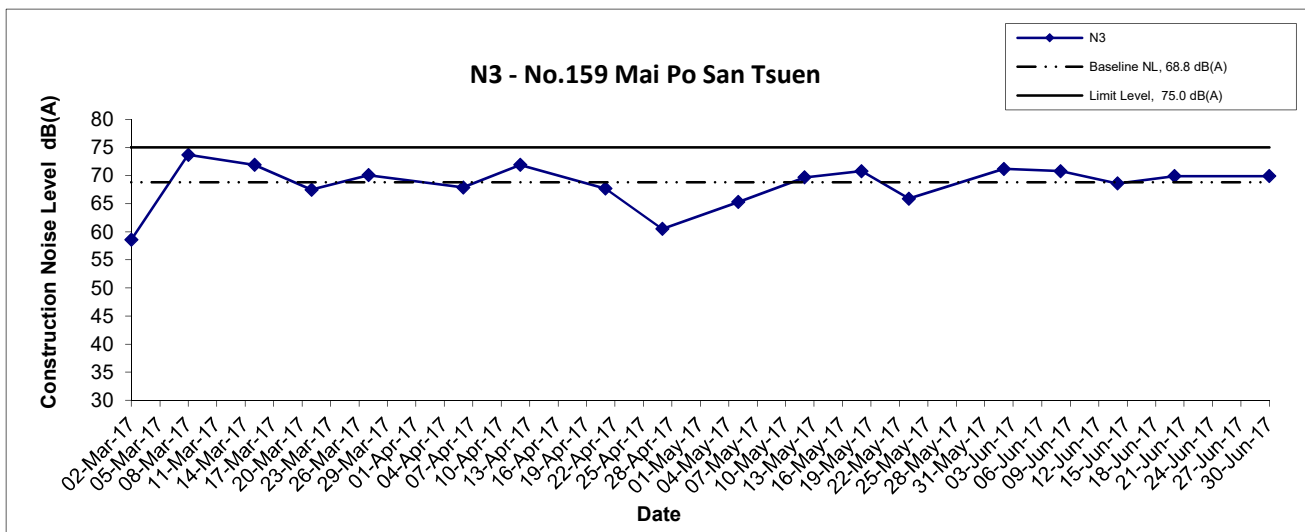
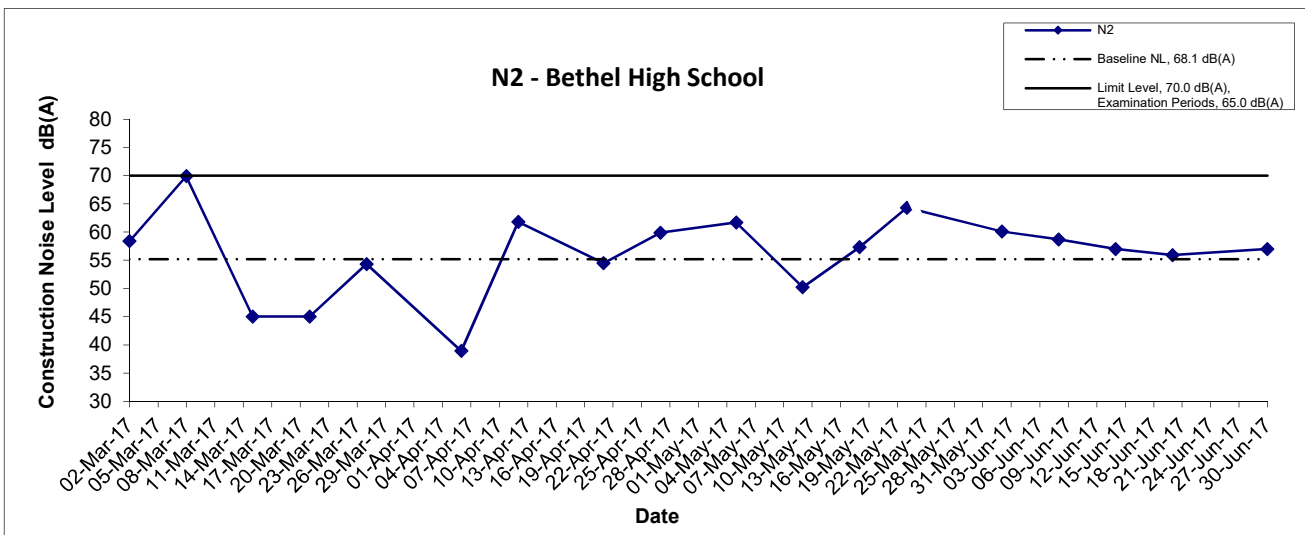
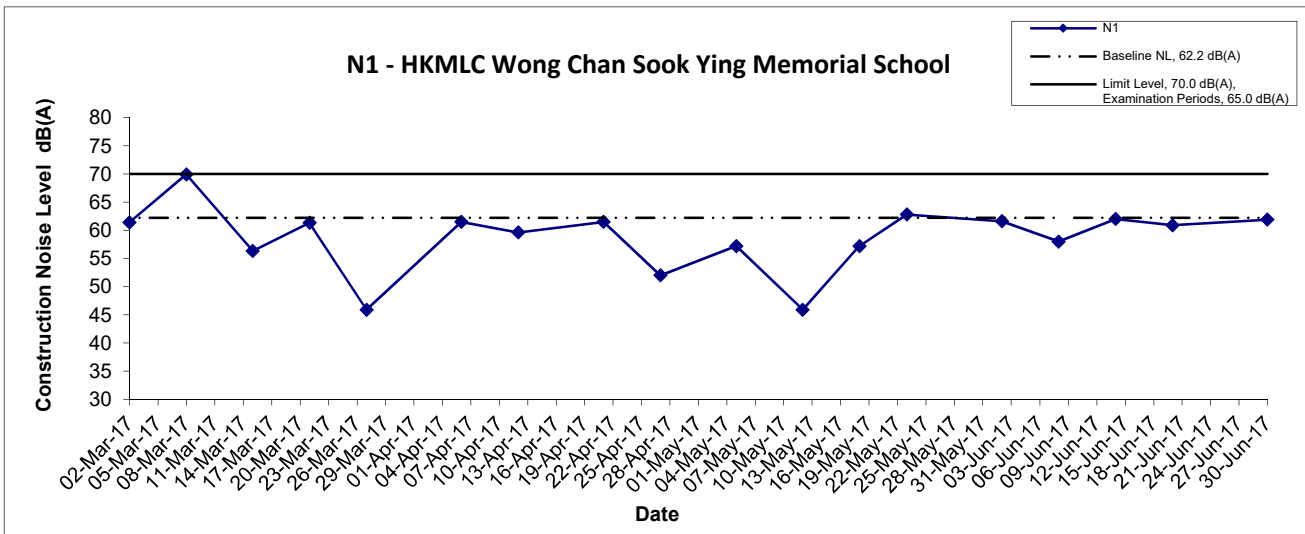
Location N3 - No.159 Mai Po San Tsuen							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
2-Jun-17	10:30	Sunny	73.2	74.2	65.0	68.8	71.2
8-Jun-17	13:45	Sunny	72.9	74.3	69.6		70.8
14-Jun-17	10:50	Cloudy	71.7	73.2	68.9		68.6
20-Jun-17	10:30	Cloudy	72.4	74.4	68.7		69.9
30-Jun-17	10:00	Sunny	72.4	74.9	66.8		69.9

Location N5 - Block 2, Dills Corner Garden							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
2-Jun-17	15:00	Sunny	74.1	75.8	70.1	70.7	71.4
8-Jun-17	14:40	Sunny	74.2	76.2	70.3		71.6
14-Jun-17	13:10	Cloudy	73.6	75.8	69.9		70.5
20-Jun-17	13:00	Cloudy	74.5	76.8	72.1		72.2
30-Jun-17	11:00	Sunny	74.4	79.3	74.8		72.0

Location N6 - Home of Loving Faithfulness							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
2-Jun-17	15:45	Sunny	71.2	72.9	68.0	72.0	71.2 Measured ≤ Baseline
8-Jun-17	15:30	Sunny	71.5	73.8	69.4		71.5 Measured ≤ Baseline
14-Jun-17	14:00	Cloudy	71.7	73.2	69.2		71.7 Measured ≤ Baseline
20-Jun-17	13:45	Cloudy	73.9	75.2	70.1		69.4
30-Jun-17	11:30	Sunny	71.8	73.9	68.0		71.8 Measured ≤ Baseline

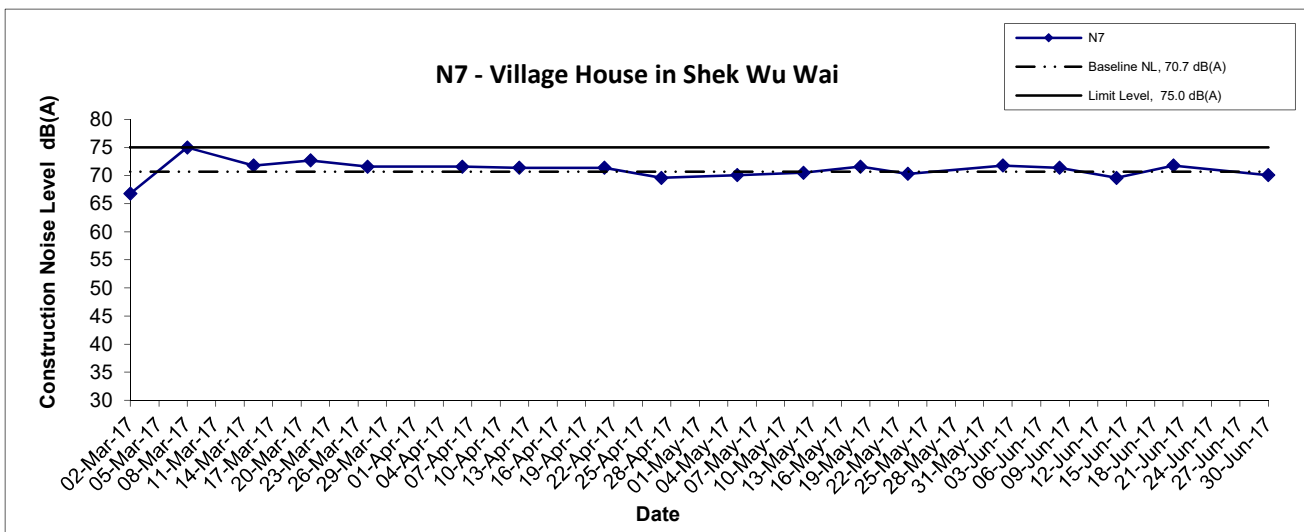
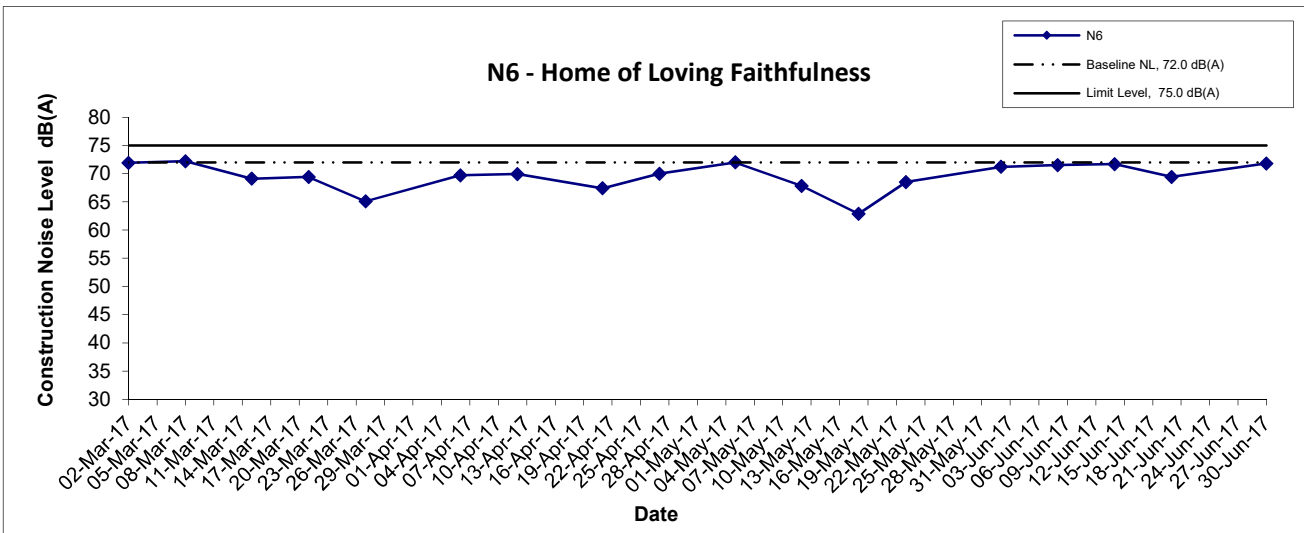
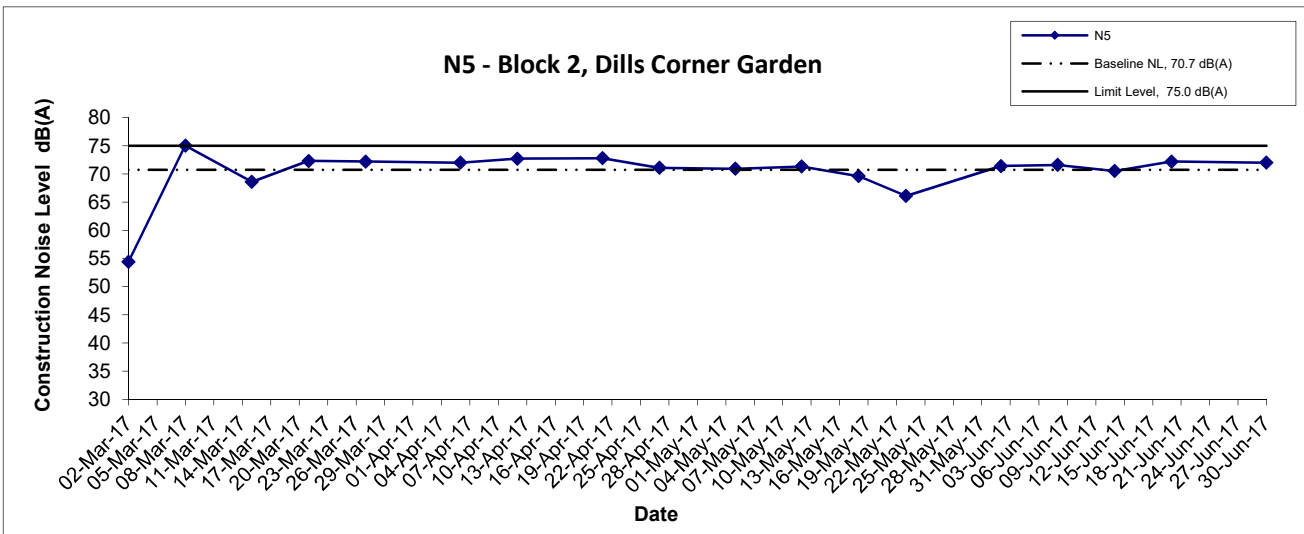
Location N7 - Village House in Shek Wui Wai							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
2-Jun-17	11:15	Sunny	74.3	75.2	66.8	70.7	71.8
8-Jun-17	13:00	Sunny	74.1	77.2	70.5		71.4
14-Jun-17	11:30	Cloudy	73.2	75.4	70.0		69.6
20-Jun-17	11:15	Cloudy	74.3	75.2	67.0		71.8
30-Jun-17	10:15	Sunny	73.4	74.0	69.1		70.1

## 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	
	Jun 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	
	Jun 17	E	

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**APPENDIX F**  
**SUMMARY OF EXCEEDANCE**

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**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)**

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**APPENDIX G  
SITE AUDIT SUMMARY**

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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	170607
Date	7 June 2017 (Wednesday)
Time	09:30-11:30

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

Ref. No.	Remarks/Observations	Related Item No.
	<b>B. Water Quality</b>	
170607-F01	• Ponding water observed at Portion A and C should be cleared.	B 8
170607-F07	• Sandbag bund should be enhanced in Portion E to prevent silty runoff entering public roads.	B 11i
170607-F05	• Wheel washing bays in Portion C, I and K should be maintained more frequently.	B 10iii & iv
	<b>C. Air Quality</b>	
170607-F04	• Stockpiles in Portion A and Works Area 3 should be properly covered by impervious materials to prevent dust generation.	C 7
	<b>D. Construction Noise Impact</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
170607-F03	• General refuse in Portion A, C, I and K should be disposed of properly to avoid accumulation. Receptacles should be provided for waste collection in Portion C and I.	E 1i
170607-F06	• Drip trays should be provided for chemical containers in Portion I and K to prevent leakage.	E 8
	<b>F. Ecology and Fisheries</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b>	
170607-F02	• Non-intrusion zones should be set up with fencing to protect existing trees at Portion A and Works Area 3.	G2
	<b>H. Permits/Licences</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>I. Others</b>	
	• No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kelvin Koo		7 June 2017
Checked by	Dr. Priscilla Choy		7 June 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*

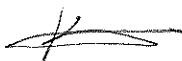
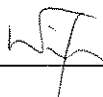
**Weekly Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	170614
Date	14 June 2017 (Wednesday)
Time	09:30-11:30

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

Ref. No.	Remarks/Observations	Related Item No.
	<b>B. Water Quality</b>	
170614-O01	• Direct discharge of untreated wastewater was found at Portions C and I. The Contractor should provide appropriate and adequate treatment to wastewater prior to discharge.	B 3
170614-F02	• Ponding water observed at Portion A and C should be cleared.	B 8
170614-F08	• Sandbag bund should be enhanced in Portion E to prevent silty runoff entering public roads.	B 11i
170614-F08	• Wheel washing bays in Portion A and C should be maintained more frequently.	B 10iii & iv
	<b>C. Air Quality</b>	
170614-F05	• Stockpiles in Portion A and Works Area 3 should be properly covered by impervious materials to prevent dust generation.	C 7
	<b>D. Construction Noise Impact</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
170614-F04	• General refuse in Portion A, C, I and K should be disposed of properly to avoid accumulation. Receptacles should be provided for waste collection in Portion C and I.	E 1i
170614-F07	• Drip trays should be provided for chemical containers in Portion I to prevent leakage.	E 8
	<b>F. Ecology and Fisheries</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b>	
170614-F03	• Non-intrusion zones should be set up with fencing to protect existing trees at Portion A and Works Area 3.	G2
	<b>H. Permits/Licences</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>I. Others</b>	
	• No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kelvin Koo		14 June 2017
Checked by	Dr. Priscilla Choy		14 June 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


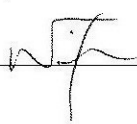
**Weekly Site Inspection Record Summary**

**Inspection Information**

Checklist Reference Number	170620
Date	20 June 2017 (Tuesday)
Time	09:30-12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	<b>B. Water Quality</b>	
170620-O04	• Direct discharge of wastewater was observed in Portion I. The Contractor was reminded to provide adequate water treatment to wastewater before discharge.	B 3
170620-F06	• Ponding water observed at Portion A and C should be cleared.	B 8
170620-F10	• Sandbag bund should be enhanced in Portion E to prevent silty runoff entering public roads.	B 11i
170620-F09	• Wheel washing bays in Portion A and C should be maintained more frequently.	B 10iii & iv
	<b>C. Air Quality</b>	
170620-F08	• Stockpiles in Portion A and Works Area 3 should be properly covered by impervious materials to prevent dust generation.	C 7
	<b>D. Construction Noise Impact</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
170620-O01	• General refuse found in Portion K should be properly cleared. Housekeeping in Portion K should be enhanced.	E 1i & 1ii
170620-O03	• Drip trays should be provided for chemical containers in Portion K to prevent leakage.	E 8
170620-O02	• Rubbish bins in Portion K should be maintained more frequently.	E 1i
	<b>F. Ecology and Fisheries</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>G. Landscape &amp; Visual</b>	
170620-O05	• Fencing of tree protection zones should be established in Portion I to prevent damages to all retained trees.	G 2
170620-F07	• Non-intrusion zones should be set up with fencing to protect existing trees at Portion A and Works Area 3.	G 2
	<b>H. Permits/Licences</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>I. Others</b>	
	• No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Kelvin Koo		20 June 2017
Checked by	Dr. Priscilla Choy		20 June 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	170628
Date	28 June 2017 (Wednesday)
Time	09:30-12:00

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

Ref. No.	Remarks/Observations	Related Item No.
170628-F04	<b>B. Water Quality</b> <ul style="list-style-type: none"><li>Wheel washing bays in Portion A and C should be maintained more frequently.</li></ul>	B 10iii & iv
170628-F03	<b>C. Air Quality</b> <ul style="list-style-type: none"><li>Stockpiles in Portion A should be properly covered by impervious materials to prevent dust generation.</li></ul>	C 7
	<b>D. Construction Noise Impact</b> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul>	
170628-O01	<b>E. Waste / Chemical Management</b> <ul style="list-style-type: none"><li>Drip trays should be provided for chemical containers in Portion C to prevent leakage.</li></ul>	E ii & lii
170628-O02	<ul style="list-style-type: none"><li>General refuse found at Portion C should be properly cleared.</li></ul>	E ii
	<b>F. Ecology and Fisheries</b> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<b>G. Landscape &amp; Visual</b> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<b>H. Permits/Licences</b> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<b>I. Others</b> <ul style="list-style-type: none"><li>No environmental deficiency was identified during site inspection.</li></ul>	

	Name	Signature	Date
Recorded by	Kelvin Koo		28 June 2017
Checked by	Dr. Priscilla Choy		28 June 2017

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**APPENDIX H**  
**EVENT AND ACTION PLANS**

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



## 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)**

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

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

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.3.6.2	S.3.2.3	<ul style="list-style-type: none"> <li>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</li> </ul>	^
<b>Construction Noise Impact</b>			
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"> <li>- mini excavator</li> <li>- mobile crane</li> <li>- dump truck</li> <li>- hand-held electric circular saw</li> <li>- concrete lorry mixer</li> <li>- lorry</li> <li>- vibratory poker</li> <li>- asphalt paver</li> <li>- crane mounted auger</li> <li>- road roller</li> <li>- road ripper, excavator mounted</li> </ul>	^
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"> <li>- mini excavator</li> <li>- mobile crane</li> <li>- dump truck</li> <li>- hand-held electric circular saw</li> <li>- bar bender</li> <li>- vibrating hammer</li> <li>- generator</li> <li>- concrete lorry mixer</li> <li>- lorry</li> <li>- vibratory poker</li> <li>- asphalt paver</li> <li>- compactor</li> <li>- road roller</li> <li>- crane mounted auger</li> </ul>	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		<ul style="list-style-type: none"> <li>- grout mixer</li> <li>- grout pump</li> <li>- drill</li> <li>- road ripper, excavator mounted</li> </ul>	
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"> <li>- air compressor</li> <li>- hand-held breaker</li> </ul>	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 <sup>2</sup> .	^
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	^
<b>Construction Water Quality</b>			
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.	^
<b>Construction Waste Management</b>			
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"> <li>● The reuse/ recycling of all materials on site shall be investigated and exhausted prior to treatment/ disposal off-site</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● All waste materials shall be sorted on-site into inert and non-inert C&amp;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)</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● The Contractor shall be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the Contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert waste shall be collected and disposed of to the Public Filling Areas whilst any inert C&amp;D materials shall be re-used on site as far as possible. Alternatively, if no use of the inert material can be found onsite, the materials can be delivered to a Public Fill Area or Public Fill Bank after obtaining the appropriate licence</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● In order to monitor the disposal of C&amp;D material and solid wastes at public filling facilities and landfills, and control fly-tipping, a trip-ticket system shall be implemented by the Contractor, in accordance with the contract and the requirements of DEVB Technical Circular (Works) No. 6/2010 “Trip Ticket System for Disposal of Construction and Demolition Material”.</li> </ul>	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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;</li> </ul>	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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;</li> </ul>	*
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● All chemical toilets, if any, shall be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; and</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling.</li> </ul>	^
S.7.4.1	S.6.2.6	<ul style="list-style-type: none"> <li>● 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.</li> </ul>	^
<b>Land Contamination</b>			
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"> <li>▪ General site safety shall be enforced to include basic practices such as the use of safety boots, hard hats, coveralls, gloves and eye protection;</li> <li>▪ Avoid skin contact, ingestion and inhalation of excavated contaminated soils. Basic personal protective equipment should be used;</li> <li>▪ 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;</li> <li>▪ Measures shall be implemented to prevent non-workers from approaching the identified works areas in order to avoid exposure to contaminants.</li> </ul>	N/A
S.8.7.5	S.7.3.1	<p><u>Management of Contaminated Soils</u></p> <ul style="list-style-type: none"> <li>▪ Where appropriate, the use of bulk handling equipment should be maximised to reduce the potential contacts between excavated contaminated materials and associated workers;</li> <li>▪ The plants for excavation and transportation of the material shall be cleaned prior to leaving the Site;</li> <li>▪ All temporary stockpiles of the materials shall be completely covered with plastic/ tarpaulin sheets, particularly during heavy rainstorms. The stockpiling areas should be concrete-paved or lined with its perimeter constructed of a concrete bund where appropriate in order to avoid any leachate from migrating out of the area;</li> <li>▪ Any vehicles transporting the material shall be suitably covered to limit potential dust emissions;</li> <li>▪ Surface waters shall be diverted around any contaminated areas or stockpiles to minimize potential runoff into excavations, as runoff might increase the volume of</li> </ul>	N/A

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		contaminated water requiring disposal and suspended solids in the wastewater stream	
<b>Ecological &amp; Fisheries Impact</b>			
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"> <li>▪ Avoid soil storage against trees;</li> <li>▪ Fence off any potentially ecologically sensitive areas;</li> <li>▪ Delineation of works area to prevent encroachment onto adjacent habitats;</li> <li>▪ Reinstatement of habitat after works;</li> <li>▪ No on-site burning of waste;</li> </ul>	^

EIA Ref.	EM&A Ref.	Mitigation Measures	Status
		<ul style="list-style-type: none"> <li>▪ Waste and refuse in appropriate receptacles;</li> <li>▪ Staff training/toolbox talks for site work near Long Valley and WCA – important areas for birds therefore staff should reduce amount of noise whilst working and during breaks where possible;</li> <li>▪ Regular ecological checks; and</li> <li>▪ Silt/ Sediment/ Oil traps for drainage to prevent site run-off</li> </ul>	
<b>Cultural Heritage Impact</b>			
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
<b>Landscape and Visual</b>			
<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 fall 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.	

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

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**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:** June 2017

**Contract No. YL/2015/01**

**Cycle Tracks from Tuen Mun to Sheung Shui – Remaining Works**

<b>Log Ref.</b>	<b>Location</b>	<b>Received Date</b>	<b>Details of Complaint/warning/summon and prosecution</b>	<b>Investigation/Mitigation Action</b>	<b>Status</b>
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.

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**APPENDIX K  
SUMMARY OF WASTE GENERATION  
AND DISPOSAL RECORDS**

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**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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.04	-	-	-	0.04	0.124	0.05	0.05	0.05	-	0.06
Feb	0.02	-	-	-	0.02	-	0.05	0.05	0.05	-	0.01
Mar	1.15	-	-	-	1.15	0.369	0.05	0.05	0.05	-	0.02
Apr	0.65	-	-	-	0.65	-	0.05	0.05	0.05	-	0.02
May	0.79	-	-	-	0.79	-	0.05	0.05	0.05	-	0.01
June	1.63	-	-	-	1.63	-	0.05	0.05	0.05	-	0.02
Sub-total	4.28	-	-	-	4.28	0.493	0.3	0.3	0.3	-	0.14
July	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sept	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
Total	4.28	-	-	-	4.28	0.493	0.3	0.3	0.3	-	0.14

\*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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
5	2	1	1	1	10	3	3	1	1	3

\*Remark: Figure to be revised if necessary

Notes:

- (1) The performance targets are given in ETWB Technical Circular PS Clause 6(14).
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m<sup>3</sup>. (ETWB Technical Circular PS Clause 5(4)(b) refers). [Delete Note (4) and the table above on the forecast, where inapplicable].