

### Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture



Our ref: ASCL-2018010

Unit 1501, Level 15, Tower I, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong.

Attention: Miss FUNG Cannifer

30 April 2019

Dear Miss Fung,

### NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) Quarterly EM&A Report for Dec 2018 to Feb 2019

I refer to the email of ET regarding to the captioned Quarterly EM&A Report with report No. 0064/18/ED/0271B, we have no adverse comment on it and verify this quarterly report according to section 1.9 of the Environmental Permit with Permit No. EP 463/2013/B

Yours faithfully,

Li Wai Ming Kevin Independent Environmental Checker

cc. CRE – Mr. YU Albert (by email only: albert.yu@aecom.com) ET Leader – Mr. WONG Tony (by email only: wl.wong@fugro)

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 Date
 30 April 2019

 Our Ref.
 MCL/ED/0223/2019/C

The EIA Ordinance Register Office Environmental Protection Department 27/F, Southorn Centre, 130 Hennessy Road, Wan Chai, Hong Kong Attn: Ms. LAU Yee Ching, Eva

**BY HAND & E-MAIL** 

Dear Ms. Lau,

#### Contract No. NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

#### Environmental Permit: EP-463/2013B Submission of Quarterly EM&A Report (0064/18/ED/0271B)

Pursuant to Updated EM&A Manual Section 8.7, we hereby submit three hardcopies and two e-copy of the quarterly EM&A Report (0064/18/ED/0271B) for your retention. This quarterly EM&A Report has been certified by ETL and verified by IEC accordingly.

Thank you for your attention, should there be any comments or queries, please contact our Environmental Team Leader David Hung at 3565-4371 or the undersigned at 3565-4441.

Yours faithfully, for and on behalf of FUGRO TECHNICAL SERVICES LIMITED

David Hung Environmental Team Leader

C.C.	CEDD	Attn: Mr. Andrew Cheung / Ms. Cannifer Fung (by E-mail)
	AECOM	Attn: Mr. Albert Yu / Mr. Bobby Hung / Mr. Andrew Cheng /
		Ms. Kate Chen / Ms. Catherine Tam (by E-mail)
	IEC	Attn: Mr. Kevin Li / Mr. Tandy Tse (by E-mail)
	CCZJV	Attn: Mr. Chung Sing Chu / Ms. Kimberly Wong / Mr. Alvin Chan (by E-mail)

Encl.





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#### **QUARTERLY EM&A REPORT**

#### December 2018 – February 2019

Client :		Civil Engineering and Development Department, HKSAR
Contract No.	:	NDO 03/2018
Contract Name :		Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)
Report No.	:	0064/18/ED/0271B

Prepared by	:	Sang Y. S
Reviewed by	:	Cvrus C. Y

Y. S. Wu

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**Certified by** 2

Tony W. L. Wong Environmental Team Leader Fugro Technical Services Limited



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#### EXECUTIVE SUMMARY

- i. The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the Project and implement the EM&A works.
- ii. This is the first Quarterly EM&A Report presents the environmental monitoring and audit works for the period between 29 November 2018 and 28 February 2019. As informed by the Contractor, major activities in the reporting period included:

December 2018	January 2019	February 2019
<ul> <li>Site clearance, utilities detection, trail pit by hand digging and implementation of temporary traffic arrangement at Zone 1 and Zone 2;</li> <li>Site clearance, utilities detection and trail pit by hand digging at Zone 3, Zone 4 and Zone 5; and</li> <li>General cleaning and tidying at storage area at Shui Chong Street.</li> </ul>	<ul> <li>Utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 1 and Zone 2;</li> <li>Tree felling, utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 3, Zone 4;</li> <li>Utilities detection and trail pit at Zone 5; and</li> <li>General cleaning and tidying and containers office setup at storage area at Shui Chong Street.</li> </ul>	<ul> <li>Tree felling, utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 1, Zone 3 and Zone 4; and</li> <li>Utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 2, Zone 5.</li> </ul>

#### **Breaches of the Action and Limit Levels**

iii. No Action / Limit Level exceedance was recorded for 24-hr and 1-hr TSP and construction noise at the site area in the reporting month.

#### Complaint, Notification of Summons and Successful Prosecution

- iv. Two complaint cases were received during the reporting period. A complaint received on 13/2/2019 referred from EPD regarding noise from tree-felling works by using chain saw near Lek Yuen Estate Kwai Wo House on 1 am. Another complaint received on 22/2/2019 from project hotline of NE/2017/05 regarding the noise generated from the tree felling works during the midnights. After ET's investigation, the complaint cases were considered project-related.
- v. No notification of summons and successful prosecution were received in the reporting period.



#### 1. INTRODUCTION

#### 1.1 Background

- 1.1.1 Contract No. NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) (TPR-ST) (hereafter referred as "the Contract"), is the Works Contract involved the construction of road widening and retrofitting noise barriers on TPR-ST.
- 1.1.2 The Works of road widening on TPR-ST is classified as a designated project (DP) under the Part I of Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499). The scale and scope of DP is classified as below:
  - Widening and reconstruction of an approximate 1.2 km long of the existing Tai Po Road (Sha Tin Section) from dual 2-lane to dual 3-lane carriageway; and improvement of the existing Sha Tin Rural Committee Road and its junctions.
- 1.1.3 The Environmental Monitoring and Audit (EM&A) programme under this Contract is governed by the Environmental Permit (EP) (EP No: EP-463/2013/B) and the updated EM&A Manual (Reference No.: 0064/18/ED/0122D). The Works to be executed under this Contract and corresponding EPs include but not be limited to the following main items:
  - (i) Road widening works of TPR-ST:
    - (a) widening of TPR-ST of about 1.1 kilometres between Sha Tin Rural Committee Road (STRCR) and Fo Tan Road from dual two-lane to dual three-lane;
    - (b) modification to the existing diamond interchange at TPR-ST / STRCR (STRCR Interchange);
    - (c) provision of two pedestrian lifts, re-provision of staircase and cycle track ramp at the modified STRCR Interchange;
    - (d) modification of existing cycle track subway no. NS30 near Sha Tin Plaza;
    - (e) modification of the existing footbridge no. NF40 across TPR-ST near Wo Che Street;
    - (f) modification of the existing footbridge no. NF66 near Fung Wo Lane;
    - (g) installation of noise mitigation measures between Citylink Plaza and Mei Wo House of Wo Che Estate;
    - (h) associated drainage works, waterworks, street lighting works and traffic control and surveillance system (TCSS).
  - (ii) Retrofitting of noise barriers along TPR-ST:
    - (a) western section between Citylink Plaza and Scenery Court;
    - (b) eastern section between Mei Wo House of Wo Che Estate and Fo Tan Road; and
    - (c) associated drainage works, waterworks and street lighting works.



- (iii) Associated street furniture, road marking, traffic signs, directional signs, services and utilities, and
- (iv) Associated landscaping works.
- 1.1.4 The location and boundary of the site is shown in **Figure 1**.
- 1.1.5 This guarterly EM&A report is required under EP-463/2013/B Condition 3.4. It is to report the results and findings of the EM&A programme required in the updated EM&A Manual.
- This is the first guarterly EM&A Report which summarized the impact monitoring results and 1.1.6 audit findings for the construction of the road widening and retrofitting noise barriers on Tai Po Road (Sha Tin Section) (TPR-ST) (hereafter referred as "the Project") within the period between 29 November 2018 and 28 February 2019.

#### 1.2 **Project Organization**

- 1.2.1 The project proponent was the Civil Engineering and Development Department, HKSAR (CEDD). AECOM Asia Co. Ltd. (AECOM) was commissioned by CEDD as the Engineer for the Project. Acuity Sustainability Consulting Limited - Nature & Technologies (HK) Limited Joint Venture was commissioned as the Independent Environmental Checker (IEC). China railway – China Railway First Group – Zhen Hua Engineering Joint Venture (CCZJV) was appointed as the main contractor for the construction works under the contract NE/2017/05. Fugro Technical Services Limited (FTS) was appointed as the Environmental Team (ET) by CEDD to implement the EM&A programme for the Project.
- 1.2.2 The organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project are summarized in Table 1.1.

Party	Position	Position Name				
Project Proponent (CEDD)	Senior Engineer	Mr. Andrew Cheung	3152 3500			
Engineer's Representative (AECOM)	Chief Resident Engineer	Mr. Albert Yu	2276 0618			
IEC (Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture)	Independent Environmental Checker	Mr. Kevin Li	9779 2247			
Main Contractor (CCZJV)	Site Agent	Mr. Alvin Chan	9800 9494			
	Environmental Officer	Ms. Kimberly Wong	5542 1669			
ET (FTS)	Environmental Team Leader	Mr. Tony Wong	3565 4443			

Table 1.1 Contact Information of Key Personnel

#### FUGRO TECHNICAL SERVICES LIMITED Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong. Tel Fax : +852 2450 8233 +852 2450 6138 E-mail : matlab@fugro.com



#### **1.3** Construction Programme and Activities

1.3.1 The construction of the Project commenced on 29 November 2018 and is expected to complete in 2023. The construction programme is shown in **Appendix A**. A summary of the major construction activities undertaken in the reporting period were:

December 2018	January 2019	February 2019
<ul> <li>Site clearance, utilities detection, trail pit by hand digging and implementation of temporary traffic arrangement at Zone 1 and Zone 2;</li> <li>Site clearance, utilities detection and trail pit by hand digging at Zone 3, Zone 4 and Zone 5; and</li> <li>General cleaning and tidying at storage area at Shui Chong Street.</li> </ul>	<ul> <li>Utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 1 and Zone 2;</li> <li>Tree felling, utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 3, Zone 4;</li> <li>Utilities detection and trail pit at Zone 5; and</li> <li>General cleaning and tidying and containers office setup at storage area at Shui Chong Street.</li> </ul>	<ul> <li>Tree felling, utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 1, Zone 3 and Zone 4; and</li> <li>Utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 2, Zone 5.</li> </ul>

#### 1.4 Status of Environmental Licences, Notifications and Permits

1.4.1 A summary of the relevant environmental licenses, permits and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.

Table 1.2	Relevant Environmental Licenses, Permits and/or Notifications
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Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit for whole project	EP-463/2013/B	20/12/2016	Nil
Receipt of the notification of construction dust production	Form NA	27/7/2018	Nil
Construction Waste Disposal Account	7031619	17/8/2018	Nil
Chemical Waste Producer Registration	5318-758-C4314-01	6/11/2018	Nil
Effluent Discharge License (Zone 1 – Zone 5)	WT00032446-2018	9/11/2018	30/11/2023
Construction Noise Permit	GW-RN0783-18	29/12/2018	28/2/2019
for Road Closure works at restricted hours	GW-RN0132-19	1/3/2019	30/4/2019



#### 2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS

#### 2.1 Monitoring Requirement

2.1.1 In accordance with the updated EM&A Manuals, 24-hour & 1-hour Total Suspended Particulates (TSP) level and Leq (30min) at the designated monitoring stations is required. Impact 24-hour and 1-hour TSP monitoring should be carried out at least once every 6 days. Leq (30min) monitoring is conducted for at least once a week during the construction phase between 0700 and 1900 on normal weekdays. The Action and Limit Levels of the air quality monitoring and noise monitoring are given in **Appendix C**.

#### 2.2 Monitoring Locations

2.2.1 The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works. According to the Hong Kong Observatory, wind directions were east, north and north east in December 2018 and February 2019. The wind directions in January 2019 were north and north east. The most updated locations are summarized in **Table 2.1** and shown in **Figure 2a**.

Table 2.1 Location of Air Quality Monitoring				
Reporting Period	Monitoring Station	Location	Land uses	
	AMS 2	Villa Le Parc	Residential	
December	AMS 3A	Wai Wah Centre	Residential	
2018	AMS 7A	Sheung Wo Che	Residential	
	AMS 9	Shatin Tsung Tsin School	School	
	AMS 1	Scenery Court	Residential	
January	AMS 4A	Wai Wah Centre	Residential	
2019	AMS 12	Fung Wo Estate	Residential	
	AMS 15	Ha Wo Che	Residential Village	
	AMS 2	Villa Le Parc	Residential	
February	AMS 3A	Wai Wah Centre	Residential	
2019	AMS 13	Fung Wo Estate	Residential	
	AMS 14	Ha Wo Che	Residential Village	

Table 2.1 Location of Air Quality Monitoring

2.2.2 According to the updated EM&A Manual, 25 noise monitoring locations were included during the noise monitoring. The most updated locations are summarized in **Table 2.2** and shown in **Figure 2b**.

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Monitoring Station	Location	Land Uses	Type of Measurement	
NMS1	Scenery Court	Scenery Court Residential		
NMS2	Villa Le Parc	Residential	Façade	
NMS3	Hilton Plaza	Residential	Façade	
NMS4	Tin Liu	Residential Village	Façade	
NMS5A	Wai Wah Centre	Residential	Façade	
NMS6A	Wai Wah Centre	Residential	Façade	
NMS7	Tin Liu	Residential Village	Façade	
NMS8	Shatin Plaza	Residential	Façade	
NMS9	Lek Yuen Estate	Residential	Façade	
NMS10A	Shatin Tsung Tsin School	School	Façade	
NMS11	Sheung Wo Che	Residential Village	Façade	
NMS12	SKH Holy Spirit Primary School	School	Façade	
NMS13	Lek Yuen Estate	Residential	Façade	
NMS14	Sheung Wo Che	Residential Village	Façade	
NMS15	Ha Wo Che	Residential Village	Façade	
NMS16	Ha Wo Che	Residential Village	Façade	
NMS17	Shatin Pui Ying College	School	Façade	
NMS18	Ha Wo Che	Residential Village	Façade	
NMS19	Wo Che Estate	Residential	Façade	
NMS20	Wo Che Estate	Residential	Façade	
NMS23	Pai Tau	Residential Village	Façade	
NMS24	Shatin Plaza	Residential	Façade	
NMS25A	Sheung Wo Che	Residential Village	Façade	
NMS26	Wo Che Estate	Residential	Façade	
NMS27	Jockey Club Ti-I College	School	Façade	

#### Table 2.2 Location of Noise Monitoring Station

#### 2.3 Results and Observations

2.3.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP was recorded in the reporting period at all monitoring stations. The monitoring data of 24-hr and 1-hr TSP are summarized in **Table 2.3 and 2.4.** Graphical presentation of the monitoring data in the reporting period is presented in **Appendix D**.



Table 2.3 Summary of 24-nr TSP Monitoring Results						
Monitoring Station	24-hr TSP (μg/m³) in Reporting Period		Average (µg/m³)	Action Level	Limit Level (µg/ m <sup>3</sup> )	
otation	Dec 2018	Jan 2019	Feb 2019	(µg/iii )	(µg/ m³)	
AMS 1	-	18 - 47	-	32	171	
AMS 2	23 - 78	-	24 - 49	45	166	
AMS 3A	49 - 95	-	40 - 61	60	200	
AMS 4A	-	63 - 90	-	74	200	
AMS 7A	25 - 77	-	-	43	171	260
AMS 9	23 - 44	-	-	31	159	200
AMS 12	-	60 - 80	-	70	168	
AMS 13	-	-	42 - 62	51	174	
AMS 14	-	-	21 - 70	43	174	
AMS 15	-	11 - 35	-	25	172	

#### Table 2.2 Summary of 24 hr TSD Manitaring Deculto

Website : www.fugro.com

#### Table 2.4 Summary of 1-hr TSP Monitoring Results

Monitoring Station	1-hr TSP (μg/m³) in Reporting Period			Average (µg/m³)	Action Level	Limit Level (µg/ m³)
Station	Dec 2018	Jan 2019	Feb 2019	(µg/m)	(µg/ m³)	
AMS 1	-	29 - 78	-	56	350	
AMS 2	11 – 130	-	16 - 48	62	324	
AMS 3A	39 – 132	-	42 - 82	92	350	
AMS 4A	-	45 - 128	-	80	348	
AMS 7A	17 – 106	-	-	61	344	500
AMS 9	24 – 98	-	-	52	327	500
AMS 12	-	27 - 98	-	68	296	
AMS 13	-	-	23 - 73	52	303	
AMS 14	-	-	26 - 96	60	350	
AMS 15	-	33 - 76	-	55	350	

2.3.2 No Action / Limit Level exceedance for day time construction noise was recorded in the reporting period at all monitoring stations. The results are summarized in Table 2.5. Graphical presentation of the monitoring data in the reporting period is presented in Appendix D.

Table 2.5	Summary of Day	/ Time Noise Impact Monitoring Re	sults
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	Log			
Monitoring		Leq <sub>(30min)</sub> Limit Level,		
Station	Dec 2018	Jan 2019	Feb 2019	dB(A)
NMS1	61.5 - 69.7	63.1 – 72.3	66.3 - 68.4	75
NMS2	55.0 - 61.0	54.0 - 61.0	58.0 - 59.5	75
NMS3	64.7 - 68.0	63.0 - 67.4	64.0 - 70.2	75
NMS4	61.0 - 66.0	64.0 - 66.9	71.4 – 71.6	75
NMS5A	71.1 – 75.0	70.2 – 75.0	68.0 - 73.4	75
NMS6A	71.5 – 74.1	71.4 – 73.4	67.4 – 72.5	75
NMS7	63.8 – 74.1	64.1 – 73.0	73.2 – 74.2	75
NMS8	65.0 - 73.0	65.6 - 72.0	64.6 - 68.6	75
NMS9	61.7 – 63.3	62.5 - 70.6	62.3 - 68.2	75
NMS10A	58.8 - 65.7	63.8 - 66.8	63.8 - 66.4	70*
NMS11	60.2 – 71.1	63.4 - 69.5	57.9 – 68.4	75
NMS12	58.0 - 66.9	61.0 - 65.6	59.0 – 64.1	70*
NMS13	59.0 - 64.7	59.3 - 68.5	58.7 – 65.5	75
NMS14	63.1 – 70.9	60.4 - 71.4	60.1 – 66.7	75
NMS15	61.6 – 68.1	64.4 - 68.5	63.9 – 67.4	75
NMS16	61.2 – 66.7	64.9 - 68.0	62.4 – 67.4	75

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NMS17	62.0 - 69.0	59.5 – 65.1	59.9 – 63.3	70*
NMS18	57.7 – 69.6	62.4 – 70.5	60.0 – 73.2	75
NMS19	63.7 – 72.1	67.7 – 71.2	65.8 – 67.7	75
NMS20	58.7 – 69.7	61.3 – 71.6	58.8 – 67.5	75
NMS23	63.9 – 71.0	61.9 – 65.6	62.5 – 68.6	75
NMS24	63.0 - 65.9	63.1 – 69.0	62.7 – 67.5	75
NMS25A	65.3 – 73.6	66.5 - 71.4	62.1 – 72.1	75
NMS26	68.2 - 74.4	68.4 - 72.5	68.0 – 74.6	75
NMS27	64.6 - 69.9	64.0 - 69.6	63.5 – 64.2	70*

Note: 1. Leq (30min) was measured at day-time (0700-1900) on normal weekdays.

2. 70 dB(A) for schools and 65 dB(A) for schools during examination period. Exam schedules of NMS 10A, NMS12, NMS 17 and NMS 27 are provided in the monthly report for reference.

2.3.3 According to the Monthly EM&A report, as the average construction noise level of each night time noise impact monitoring at the four monitoring stations was lower than the baseline level or the limit level, no project-related noise exceedance cases during the reporting period for Contractor's night tree-felling and removal works. The results are summarized in **Table 2.6** and **2.7**.

Table 2.6	Summary of Night	Time Noise Impact Monit	oring Results (1900 – 2300)

Monitoring Station	in Reporti	ange ,dB(Å) ng Period	Baseline Level, dB(A)	Leq <sub>(5min)</sub> Limit Level, dB(A)
	Jan 2019	Feb 2019		70
NMS 8	NA	60.1 – 69.4	67.5	70
NMS 9	58.2 – 62.8	59.0 - 66.0	57.8	70
NMS 24	59.0 – 61.8	60.3 – 67.7	61.8	70
NMS 25A	60.8 – 67.8	60.8 – 67.5	62.6	70

Note: Leq (5min) was measured at night-time (1900-2300) at NMS 8, 9, 24 & 25A.

NA – No night time noise impact monitoring at NMS 8 was conducted in January 2019 as the station was not in proximity of the tree felling area.

Table 2.7 Juli mary of Night Time Noise impact worktoring Results (2500 – 0700	Table 2.7	Summary of Night Time Noise Impact Monitoring Results (2300 – 0700)
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Monitoring	Leq (5min) Range ,dB(A	Leq (5min) Range ,dB(A) in Reporting Period		Leq (5min)	
Station	Jan 2019	Feb 2019	Level, dB(A)	Limit Level, dB(A)	
NMS 8	NA	56.0 - 63.7	64.4	55	
NMS 9	50.0 - 61.8	51.8 – 60.8	53.5	55	
NMS 24	53.5 – 61.0	52.1 – 60.9	58.0	55	
NMS 25A	44.1 – 67.4	44.4 - 63.7	59.7	55	

Note: 1. Leq (5min) was measured at night-time (2300-0700) at NMS 8, 9, 24 & 25A.

2. NA – No night time noise impact monitoring at NMS 8 was conducted in January 2019 as the station was not in proximity of the tree felling area.

3. When the Average Measured Noise Level is greater than Limit Level, Average Construction Noise Level (CNL) will be applied.

Calculated CNL = Measured Noise Level during operation – Baseline

4. According to the Monthly EM&A Report, for NMS 8, NMS 9, NMS 24 and NMS 25A, the average construction level (5min) was lower than the baseline level or the limit level in the reporting period.

- 2.3.4 No raining and wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.
- 2.3.5 During the reporting period, major dust sources including trial pits excavation was observed in the site. Other factors such as road traffic along Tai Po Road may affect the monitoring results. Major noise sources including road traffic along Tai Po Road was observed which may affect the monitoring results.



#### 3. LANDSCAPE AND VISUAL

#### 3.1 Results and Observations

- 3.1.1 Site audits were carried out to monitor and audit the implementation of landscape and visual mitigation measures.
- 3.1.2 No non-compliance was recorded in the weekly Site audits in the reporting period.
- 3.1.3 Observations and recommendations during site audits are summarized in **Table 5.1**.



#### 4. WASTE MANAGEMENT

#### 4.1 Results and Observations

- 4.1.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.
- 4.1.2 The amount of wastes generated by the site activities in the reporting period is shown in **Appendix E**.
- 4.1.3 The Contractor is advised to properly maintain on site C&D materials and wastes collection, sorting and recording system and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 4.1.4 The Contractor is reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.



#### 5. SITE INSPECTION

#### 5.1 Site Inspection

- 5.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix F**.
- 5.1.2 In the reporting quarter, 15 site inspections were carried out. 3 of them were the joint inspections with the IEC, ER, the Contractor and the ET. Ad-hoc inspection was held on 21 January 2019.
- 5.1.3 A senior environmental protection inspector from EPD visited Shio Chong Street storage area on 14 February 2019 to witness tree felling demonstration after a complaint was received on 2 February 2019. The second visit by EPD was conducted at 16<sup>th</sup> Feb night to check the mitigation measures regarding to the condition stipulated in the CNP.
- 5.1.4 All the follow-up actions requested by Contractor's ET and IEC during the site inspections were completed as reported by the Contractor. No outstanding issues were reported during the reporting period.
- 5.1.5 Details of observations recorded during the site inspections are presented in **Table 5.1**.

Parameters	Date	Observations and Recommendations	Follow-up			
Air Quality	No defici	ency was found during the reporting	g quarter.			
Noise	No deficiency was found during the reporting quarter.					
Water Quality	2 7 February 2019	<ol> <li>Reminder:</li> <li>More sandbags shall be placed at the exit of Zone 5.</li> <li>Sandbags shall be placed at drain exit under NF66.</li> <li>Sandbags shall be placed near trial pit near Wo Che Estate.</li> </ol>	NA			
Chemical and Waste Management	30 November 2018	Reminder: Contractor was reminded to clear the waste materials frequently.	NA			
	18 January 2019	Observation: 1. Waste accumulation was found at site storage area under Sha Tin Rural Committee Road adjacent to the site exit.	The item was rectified by the Contractor on 22 January 2019.			
		Reminder: Contractor was reminded to clear the waste at U-channel frequently.	NA			

 Table 5.1
 Observations and Recommendations of Site Audit

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Parameters	Date	Observations and Recommendations	Follow-up			
	21 January 2019 (ad-hoc)	Observation: 1.Waste accumulation was found at site storage area under Sha Tin Rural Committee Road in Zone 3. 2.Waste accumulation was found at NS37A in Zone 5.	The items were rectified by the Contractor on 24 January 2019.			
	30 January 2019	Reminder: Chemical waste shall be placed inside chemical waste tank. Also waste disposal record shall be kept for reference.	NA			
	15 February 2019	Reminder: Contractor was reminded to clear the used batteries in the U- Channel inside the site storage area frequently.	NA			
	27 February 2019	Reminder: Felled trees which stored in Zone 3 storage area shall be cleared.	NA			
Land Contamination	No defic	No deficiency was found during the reporting q				
Landscape and	15 February 2019	Reminder: Contractor was reminded to clarify whether trees that no sign on the tree body in Zone 1 were required to be felled.	NA			
Visual Impact	22 February 2019 Reminder: Tree protection measure shall be provided under Zone 3 beside trial pit excavation.		NA			
General	No defic	I trial pit excavation. No deficiency was found during the reporting				



#### 6. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

#### 6.1 Environmental Exceedance

6.1.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP and noise was recorded in the reporting period at all monitoring stations. Number of exceedance in the reporting period was summarized in **Table 6.1** and **6.2**.

		Number of exceedance in the reporting period								
Monitoring Station			24-hou	ur TSP			1-hour TSP			
		Dec 2018	Jan 2019	Feb 2019	Total	Dec 2018	Jan 2019	Feb 2019	Total	
	AL	-	0	-	0	-	0	-	0	
AMS 1	LL	-	0	-	0	-	0	-	0	
AMS 2	AL	0	-	0	0	0	-	0	0	
AIVIS Z	LL	0	-	0	0	0	-	0	0	
AMS 3A	AL	0	-	0	0	0	-	0	0	
AIVIS SA	LL	0	-	0	0	0	-	0	0	
	AL	-	0	-	0	-	0	-	0	
AMS 4A	LL	-	0	-	0	-	0	-	0	
AMS 7A	AL	0	-	-	0	0	-	-	0	
	LL	0	-	-	0	0	-	-	0	
AMS 9	AL	0	-	-	0	0	-	-	0	
AIVIS 9	LL	0	-	-	0	0	-	-	0	
AMS 12	AL	-	0	-	0	-	0	-	0	
AIVIS 12	LL	-	0	-	0	-	0	-	0	
AMS 13	AL	-	-	0	0	-	-	0	0	
AIVIS 13	LL	-	-	0	0	-	-	0	0	
AMS 14	AL	-	-	0	0	-	-	0	0	
AWIS 14	LL	-	-	0	0	-	-	0	0	
AMS 15	AL	-	0	-	0	-	0	-	0	
ANIS 15	LL	-	0	-	0	-	0	-	0	
Total	AL	0	0	0	0	0	0	0	0	
rolai	LL	0	0	0	0	0	0	0	0	

#### Table 6.1 Summary of Exceedance of Dust Monitoring in Reporting Period

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#### Number of exceedance in the reporting period **Monitoring Station** Leq (30min) dB(A) Total Dec 2018 Jan 2019 Feb 2019 AL NMS 1 LL AL NMS 2 LL AL NMS 3 LL AL NMS 4 LL AL NMS 5A LL AL NMS 6A LL AL NMS 7 LL AL NMS 8 LL AL NMS 9 LL AL **NMS 10** LL AL **NMS 11** LL AL **NMS 12** LL AL **NMS 13** LL AL **NMS 14** LL AL **NMS 15** LL AL **NMS 16** LL AL **NMS 17** LL AL **NMS 18** LL AL **NMS 19** LL AL **NMS 20** LL AL NMS 23 LL AL **NMS 24** LL AL NMS 25A LL AL **NMS 26** LL AL **NMS 27** LL AL Total LL

#### Table 6.2 Summary of Exceedance of Noise Monitoring in Reporting Period

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#### 6.2 Complaints, Notification of Summons and Prosecution

6.2.1 Two complaints were received in the reporting period. No notification of summons or prosecution was received in the reporting period. Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in Table 6.3, 6.4 and 6.5.

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
COM-2019-005	13/2/2019	EPD	Regarding to continuous noise nuisance starting from around 1 a.m. near Lek Yuen Estate Kwai Wo House.	According to the photo taken from the complainant, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for reducing the noise impact. Environmental Team conducted additional adhoc noise monitoring on 19:00 14th February 2019 to 07:00 15 <sup>th</sup> February 2019 for evaluate the effectiveness on the proposed mitigation measures. No project-related noise exceedance case on 14-15 Feb 2019 Contractor's night tree-felling and removal works. The proposed mitigation measures were effective for noise impact.	Project-related	Closed
COM-2019-006	22/2/2019	Project Hotline of NE/2017/05	Regarding to continuous noise generated from the tree felling works during the midnight 12:00am near Lek Yuen Estate Kwai Wo House.	According to the location of complainant from Kwai Wo House, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783- 18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. An extended barrier at the top acts as a cantilever shape	Project-related	Closed

#### Table 6.3 Environmental Complaints Log

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was recommended to modify the existing semi- enclosure installed in the cherry picker Also, three sides with top as a semi-enclosure to be used and those tree felling activities should be inside the semi-enclosure in the ground slope. The main contractor had been recommended to review their works program and methods of
tree felling as to minimize the night time tree felling activities.

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#### Table 6.4 Cumulative Statistics on Complaints

Environmental	Cumulative No. Brought	No. of Complaints in the Reporting Period			Cumulative Project-to-
Parameters	Forward	December 2018	January 2019	February 2019	Date
Air	0	0	0	0	0
Noise	0	0	0	2	2
Water	0	0	0	0	0
Waste	0	0	0	0	0
Total	0	0	0	0	0

#### Table 6.5 Cumulative Statistics on Successful Prosecutions

Environmental	Cumulative No. Brought	No. of Complaints This Reporting Period			Cumulative Project-to-
Parameters	Forward	December 2018	January 2019	February 2019	Date
Air	0	0	0	0	0
Noise	0	0	0	0	0
Water	0	0	0	0	0
Waste	0	0	0	0	0
Total	0	0	0	0	0



#### 7. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

#### 7.1 Implementation Status

7.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting period is summarized in **Appendix F**.



#### 8. CONCLUSIONS

- 8.1.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP and noise was recorded in the reporting period at all monitoring stations.
- 8.1.2 Two complaint cases were received during the reporting month. A complaint received on 13/2/2019 referred EPD hotline regarding noise from tree-felling works by using chain saw near Lek Yuen Estate Kwai Wo House on 1 am. Another complaint received on 22/2/2019 from project hotline of NE/2017/05 regarding the noise generated from the tree felling works during the mid-nights. After ET's investigation, the complaint cases were considered project-related.
- 8.1.3 15 weekly environmental site inspections were carried out in the reporting period. Recommendations on mitigation measures on air quality, noise quality, water quality, chemical and waste management, landscape and visual impact were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 8.1.4 Referring to the Contractor's information, no notification of summons and successful prosecution was received in the reporting period.

#### Comment and Recommendations

- 8.1.5 The recommended environmental mitigation measures, as proposed in the EIA reports and EM&A Manuals shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.
- 8.1.6 According to the environmental audit performed in the reporting period, the following recommendations were made:

#### Air Quality Impact

• No specific observation was identified in the reporting period.

#### Construction Noise Impact

• No specific observation was identified in the reporting period.

#### Water Quality Impact

• No specific observation was identified in the reporting period.

Chemical and Waste Management

- Contractor was reminded to clear the waste materials at site storage area under Sha Tin Rural Committee Road adjacent to the site exit.
- Contractor was reminded to clear the waste materials at site storage area under Sha Tin Rural Committee Road in Zone 3.
- Contractor was reminded to clear the waste materials at NS37A in Zone 5.

Land Contamination

• No specific observation was identified in the reporting period.

Landscape and Visual Impact

• No specific observation was identified in the reporting period.

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General Condition

• No specific observation was identified in the reporting period.

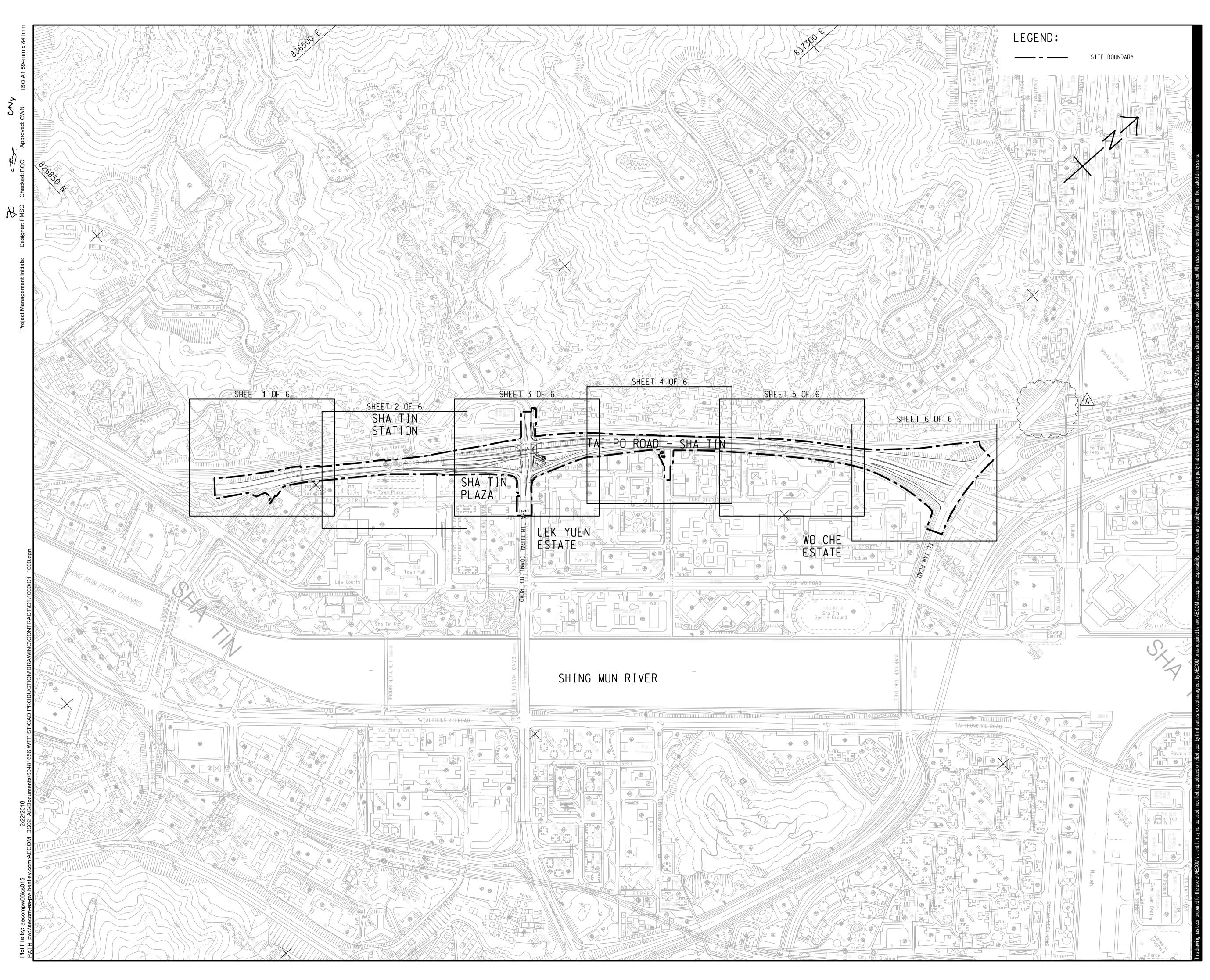
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Figure 1

**Project General Layout** 





# ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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### **STATUS** 階段

SCALE <sup>比例</sup>	DIMENSION UNIT 尺寸單位
A1 1 : 4000	METRES
<b>KEY PLAN</b> 索引圖	FIGURE 1.1a

## CONTRACT NO. <sub>合約編號</sub>

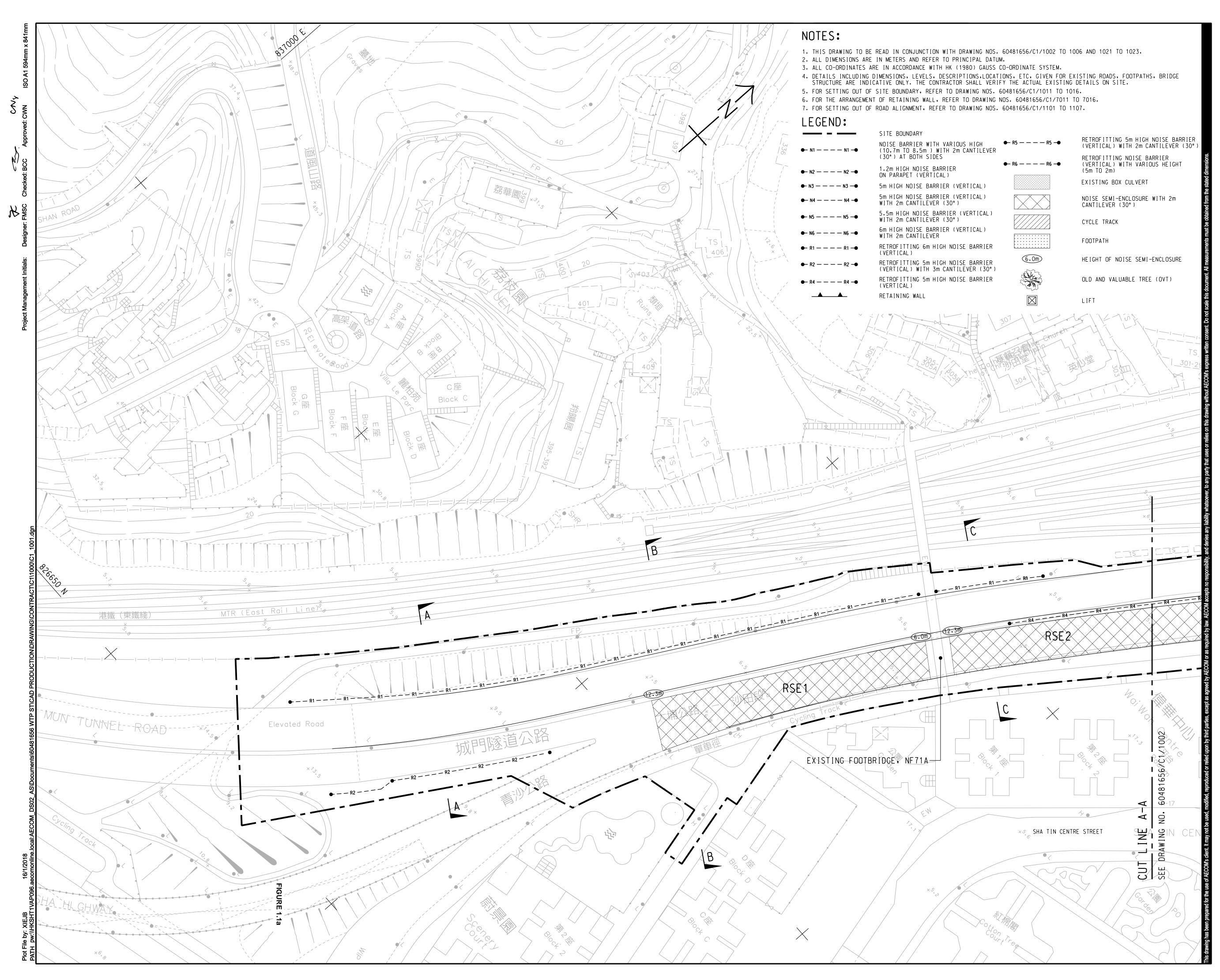
NE/2017/05

SHEET TITLE <sup>圖紙名稱</sup>

KEY PLAN FIGURE 1.1a

# SHEET NUMBER 圖紙編號

60481656/C1/1000A





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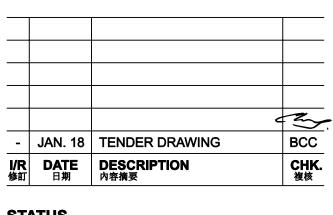
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### STATUS <sub>階段</sub>

# SCALE <sup>比例</sup>

### DIMENSION UNIT <sub>尺寸單位</sub>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 家引圖 PEI TAL VILLAGE

### CONTRACT NO. <sup>合約編號</sup>

60481656

SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN

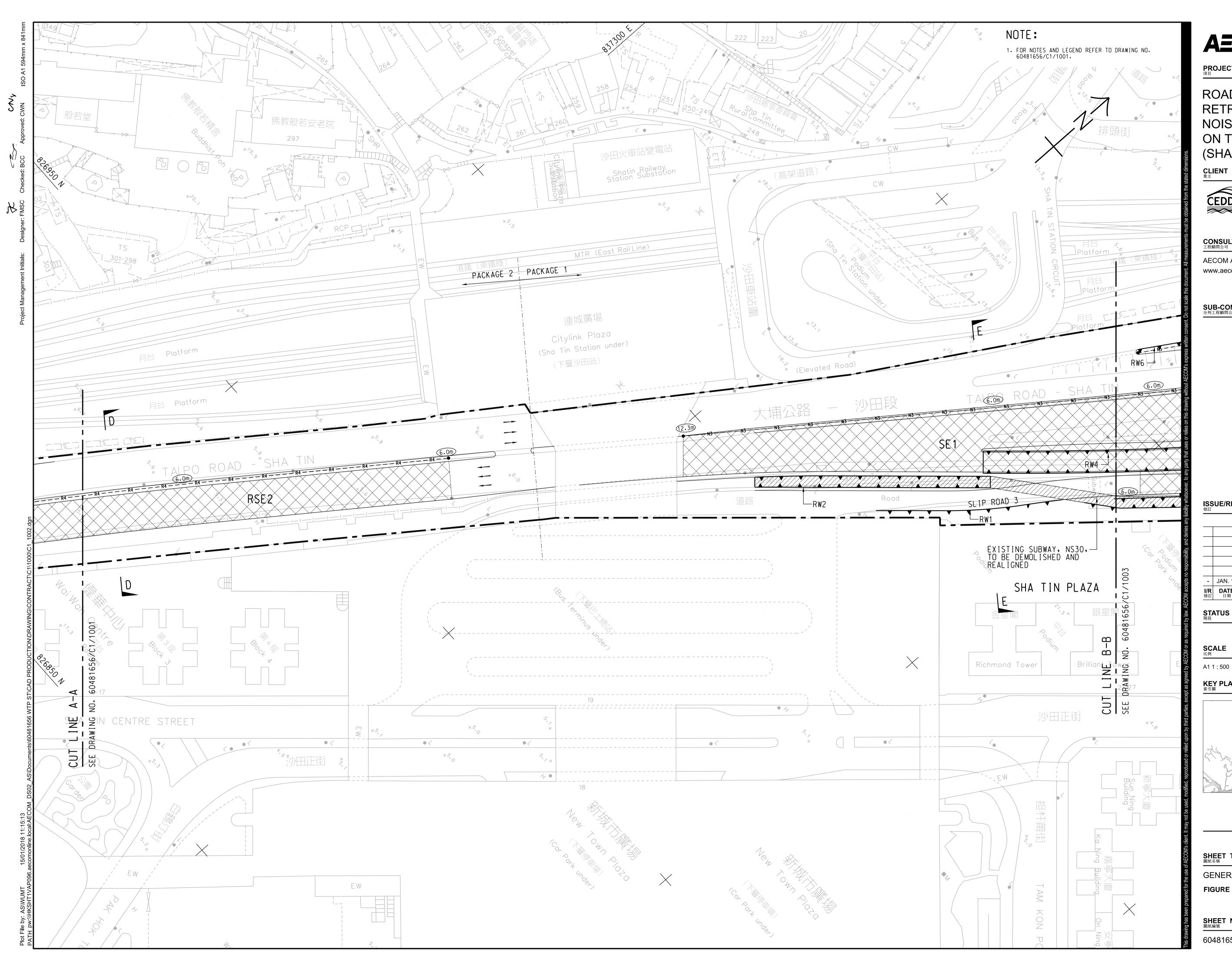
### FIGURE 1.1 b

# SHEET NUMBER <sup>圖紙編號</sup>

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SHEET 1 OF 6





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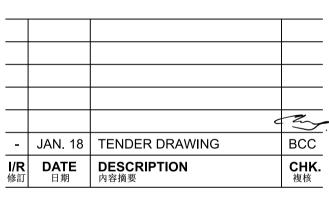
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# SCALE 比例

### DIMENSION UNIT <sup>尺寸單位</sup>

METRES

**KEY PLAN** A1 1 : 40000 索引圖

### CONTRACT NO. <sub>合約編號</sub>

NE/2017/05

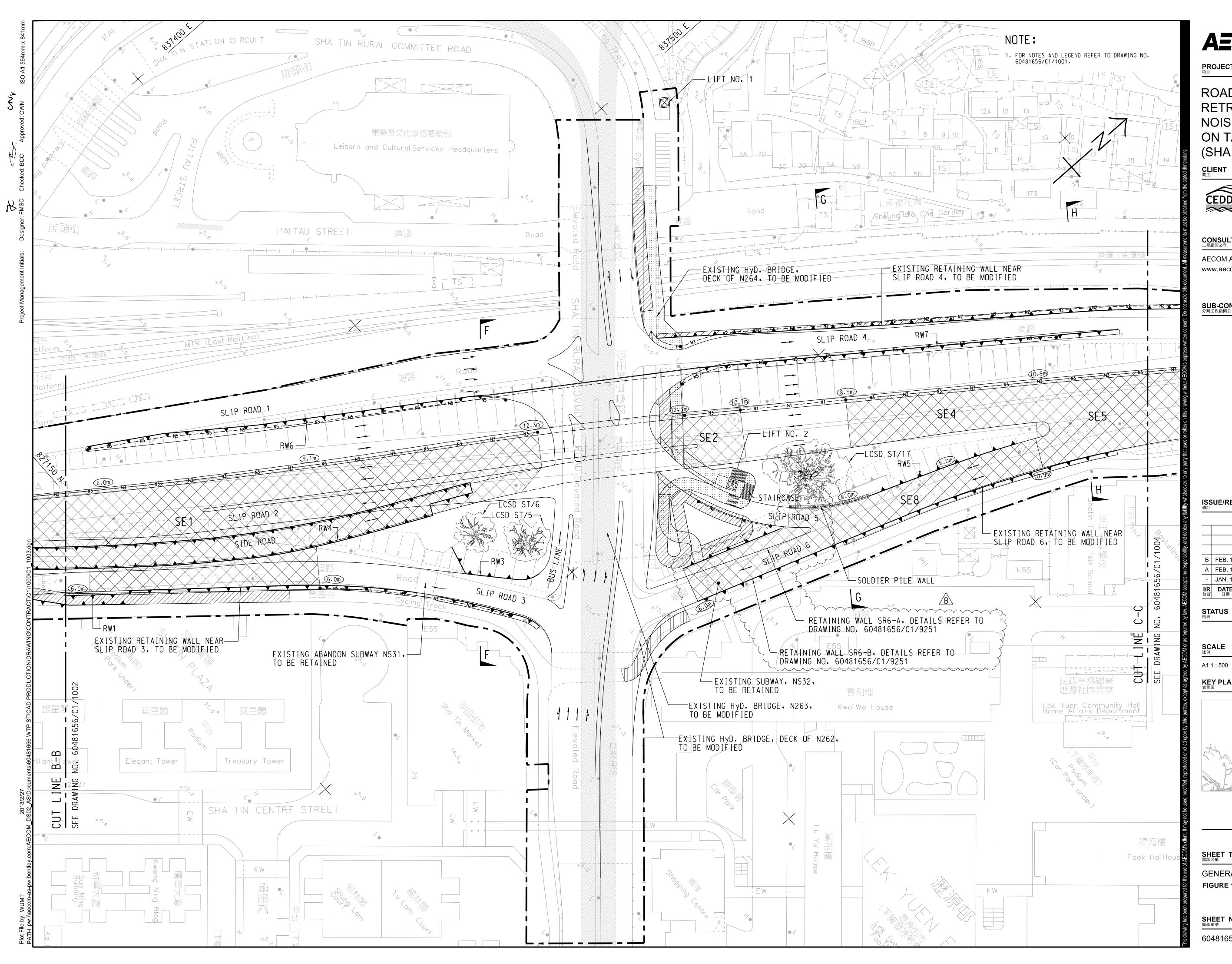
SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

# SHEET NUMBER <sup>圖紙編號</sup>

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SHEET 2 OF 6





PROJECT

## ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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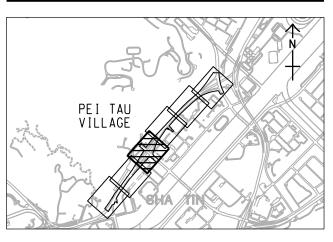
### STATUS 階段

SCALE 比例

### DIMENSION UNIT <sub>尺寸單位</sub>

METRES

**KEY PLAN** A1 1 : 40000 索引圖



### CONTRACT NO. <sub>合約編號</sub>

NE/2017/05

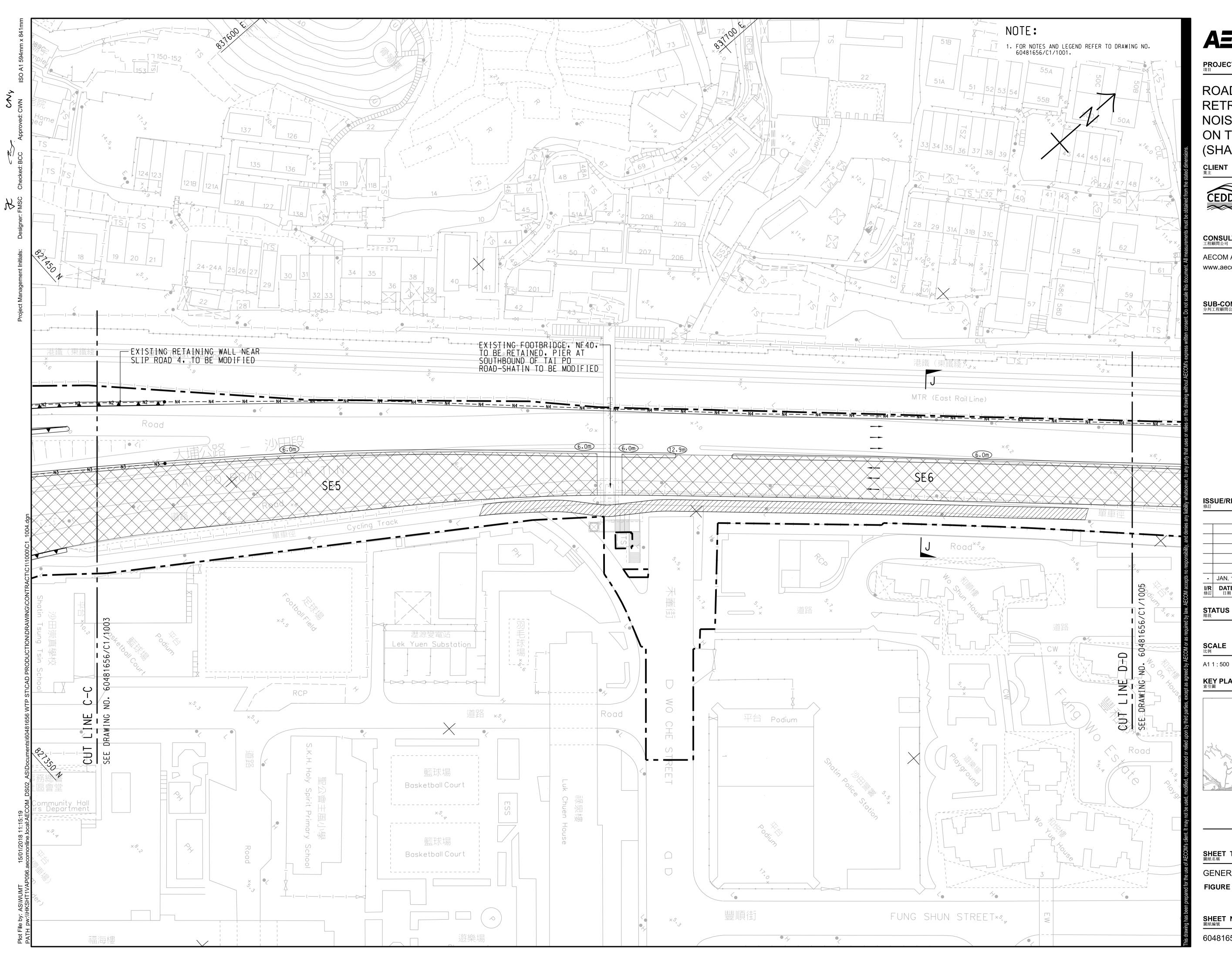
SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1 b

# SHEET NUMBER 圖紙編號

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SHEET 3 OF 6





**PROJECT** <sup>項目</sup>

## ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

### CLIENT <sup>業主</sup>



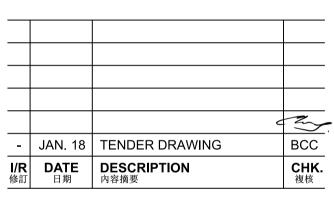
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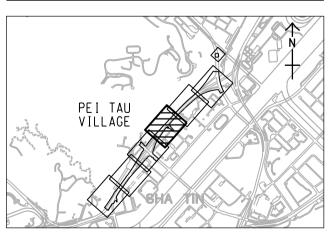
### **STATUS** 階段

# SCALE 比例

### DIMENSION UNIT <sub>尺寸單位</sub>

METRES

**KEY PLAN** A1 1 : 40000 索引圖



### CONTRACT NO. <sub>合約編號</sub>

NE/2017/05

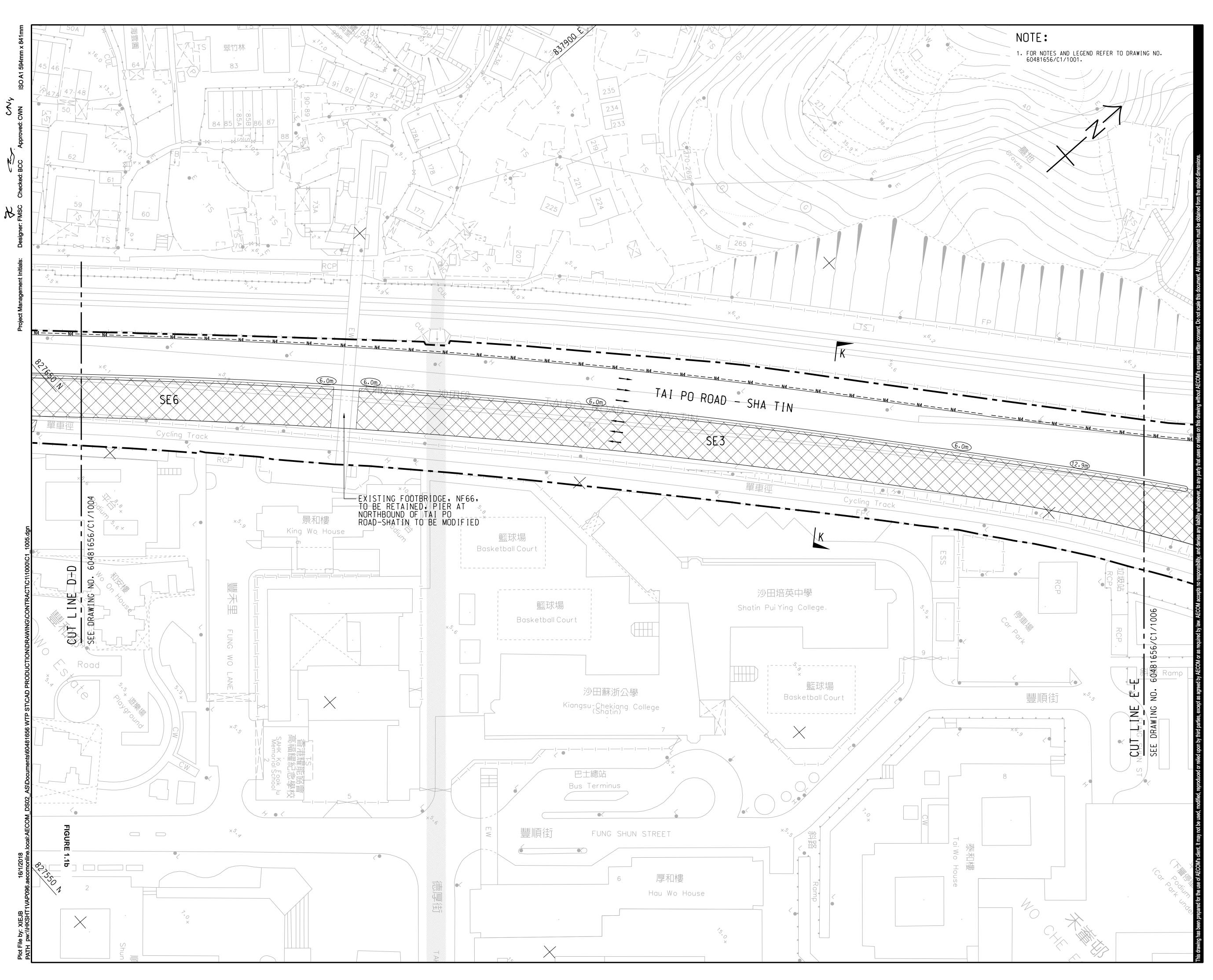
SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

SHEET NUMBER <sup>圖紙編號</sup>

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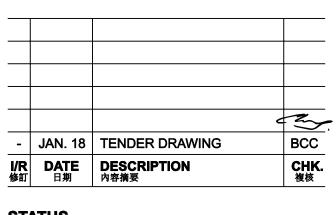
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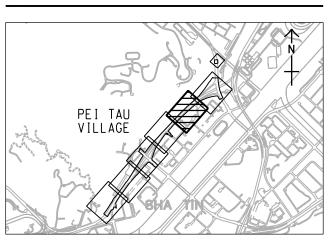
# SCALE <sup>比例</sup>

### DIMENSION UNIT <sup>尺寸單位</sup>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 *案*引圖



### CONTRACT NO. <sup>合約編號</sup>

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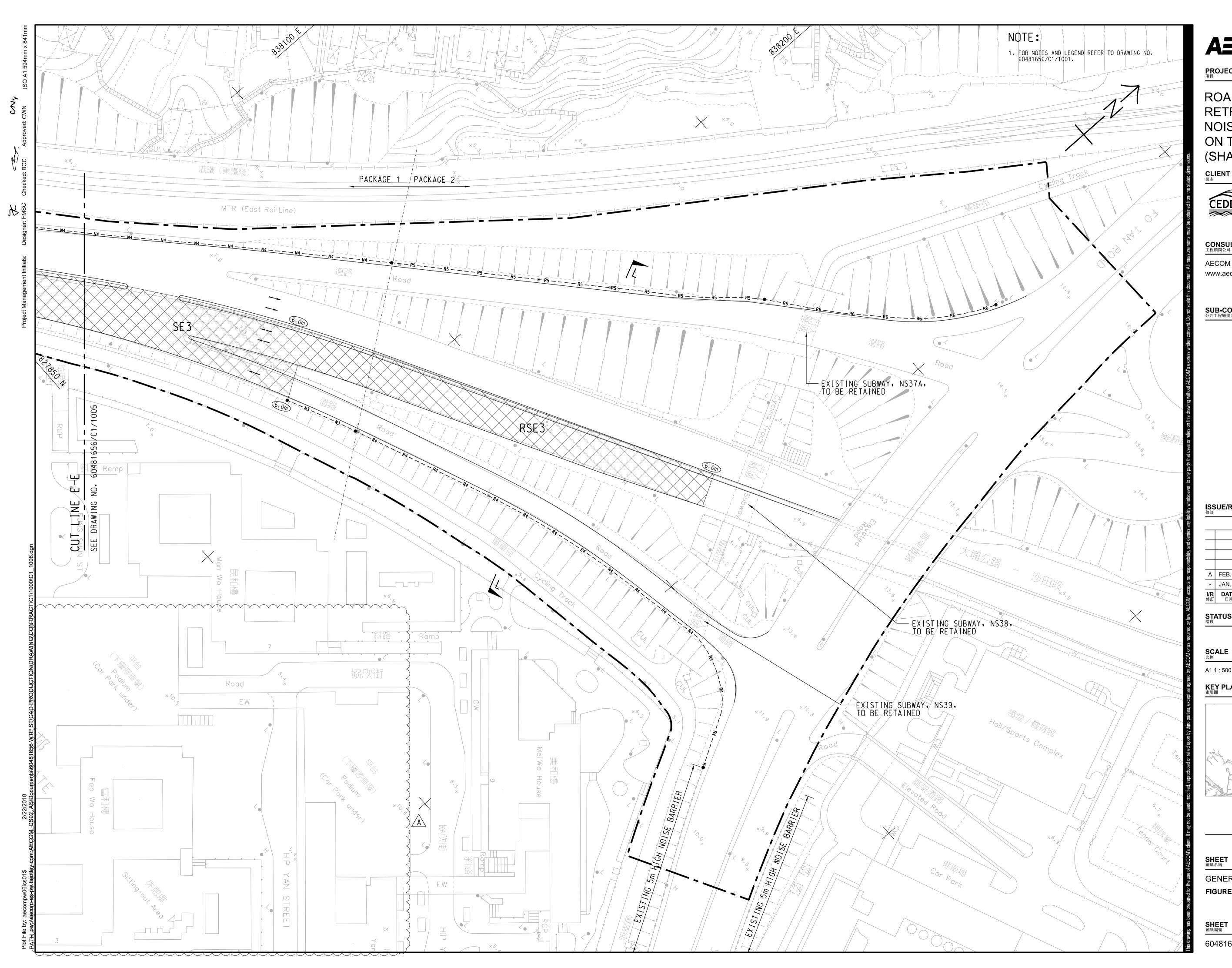
### SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

# SHEET NUMBER 圖紙編號

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# ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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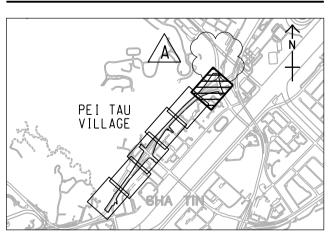
### **STATUS** 階段

# DIMENSION UNIT <sup>尺寸單位</sup>

A1 1 : 500

METRES

**KEY PLAN** A1 1 : 40000 索引圖



### CONTRACT NO. <sub>合約編號</sub>

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SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

SHEET 6 OF 6

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Figure 2a

**Air Monitoring Locations** 

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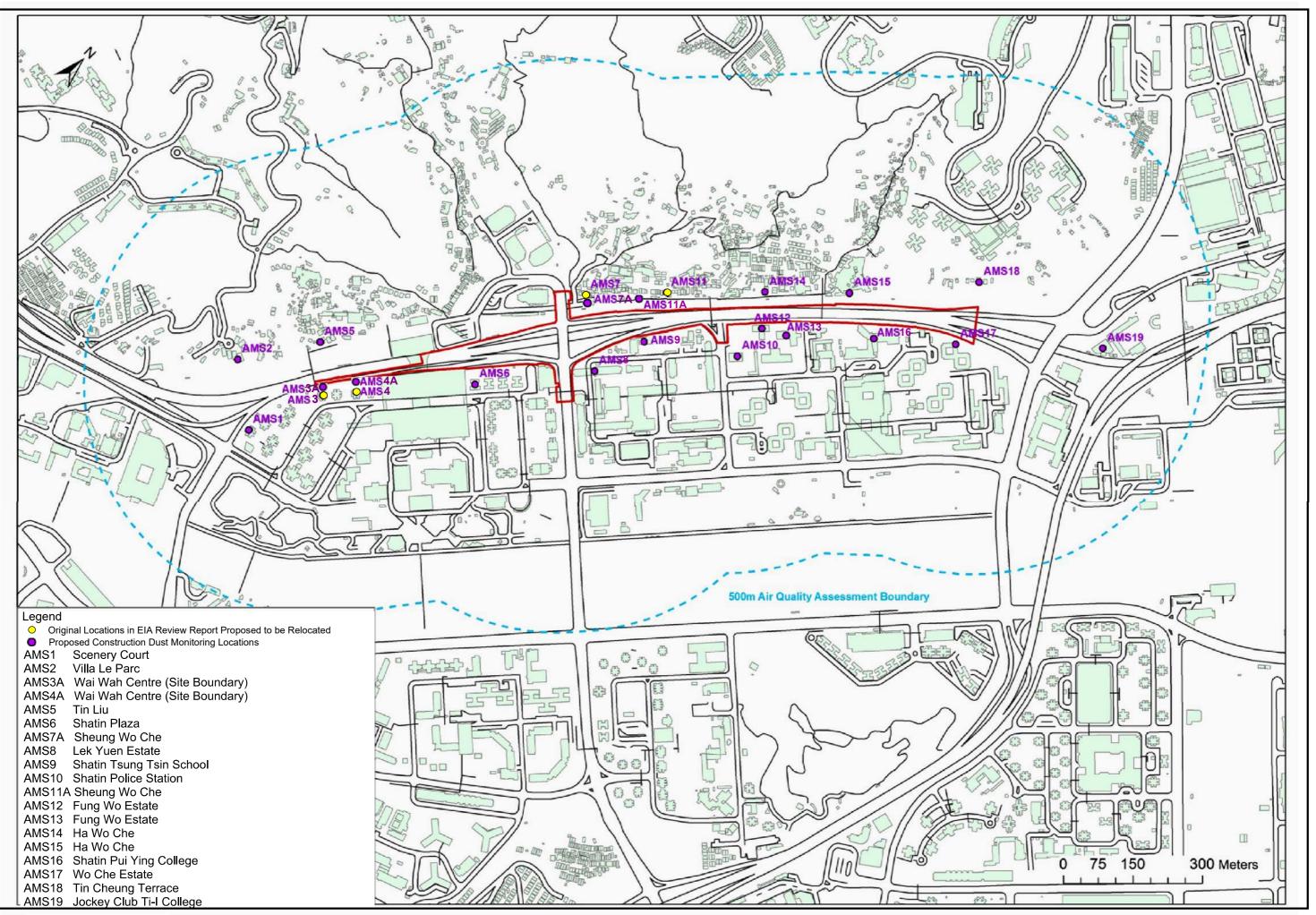


Figure 2a Air Quality Monitoring Locations



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Figure 2b

**Noise Monitoring Locations** 

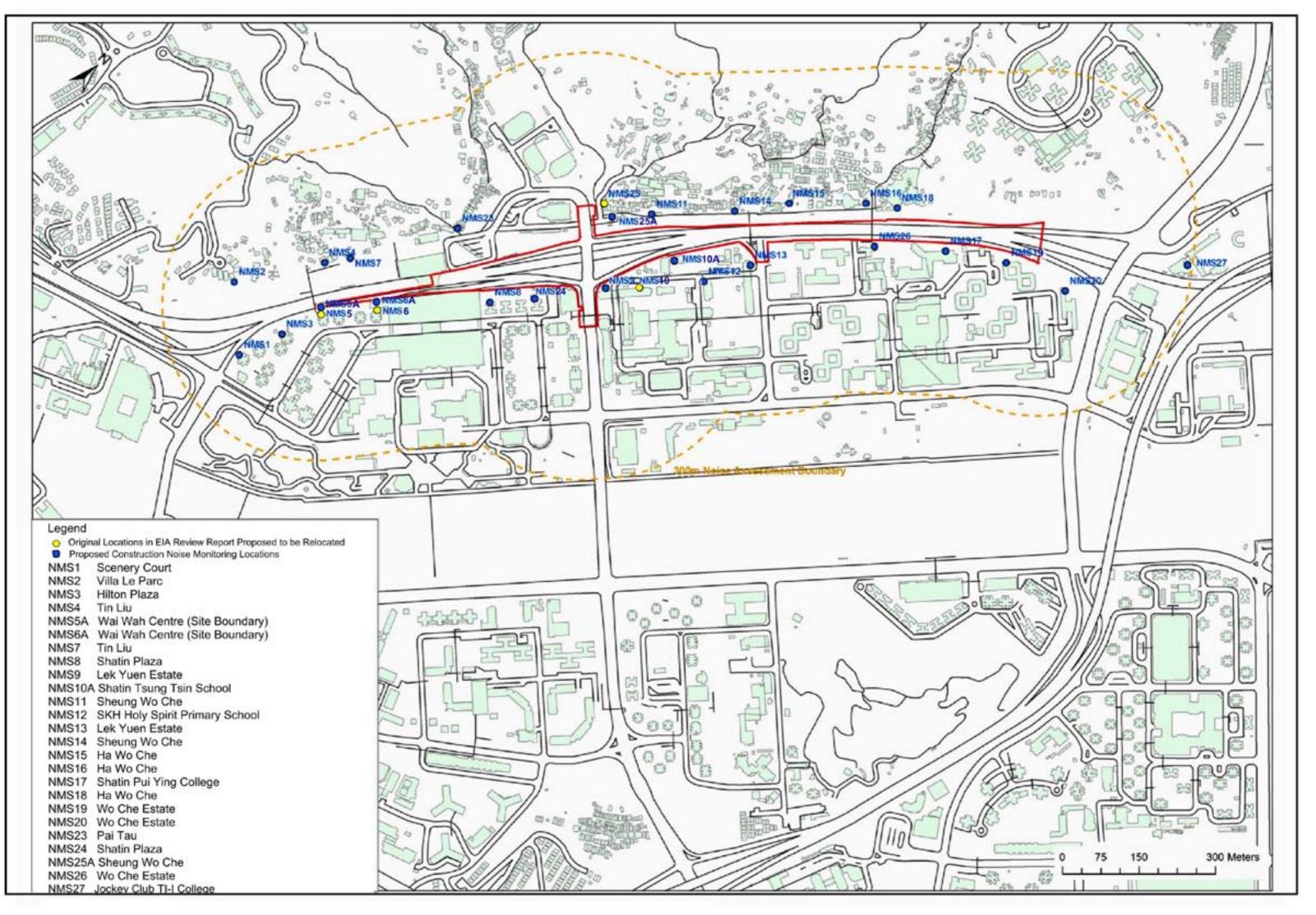


Figure 2b Noise Monitoring Locations



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Appendix A

**Construction Programme** 

ID Activity I	Name		aining 3MRP Star	3MRP Finish	DWP (AP2)	DWP (AP2	)N	2018		2019	
					Start	Finist	h <u>Nov</u> 5	Dec 6	Jan 7	Feb	Ma 9
DITTACT NE/20	17/05 Road Widening and I	Retrofittin	ng Noise Ba	arriers or	n Tai Po	Road (				· · · · ·	
ROJECT KEY											
OSSESSION OF SITE											
KEY1050 Possess	sion of Portion D	0	0 23-Jan-19*		23-Jan-19				2 Posses	sion of Portion D	1
RELIMINARIE	S & GENERAL REQUIRE	MENT	Carl Carl Carl						•		
SENERAL SUBMISSIO	N										
SUB1115 Survey of	of the Site	0	0 30-Nov-18*		03-Aug-18			Summer of the Oile			
SUB1153 BIM Tea	ım	0	0 30-Nov-18*		24-Aug-18		_	<ul> <li>Survey of the Site</li> </ul>			
SUB1155 BIM Exe	cution Plan	0	0 30-Nov-18*					BIM Team			
SUB1180 Recordi	na photo				25-Sep-18			BIM Execution Plan			
		0	0 30-Nov-18*		03-Aug-18			<ul> <li>Recording photo</li> </ul>			
SUB1200 Hoarding		0	0 30-Nov-18*		01-Aug-18			👌 Hoarding Plan			
SUB1305 Holding	nursery for transplanted trees	0	0 30-Nov-18*		17-Aug-18			Holding nursery for transplanted trees			
SUB1307 Geotech	nical monitoring personnel	0	0 30-Nov-18*		17-Aug-18			Geotechnical monitoring personnel			
SUB1309 Geotech	nical monitoring proposal	0	0 30-Nov-18*		26-Aug-18			Geotechnical monitoring proposal			
SUB1343 TCSS C	onfiguration Management	0	0 30-Nov-18*		16-Sep-18		-				
SUB1347 Lift Insta	Ilation - Design Data	0	0 30-Nov-18*		25-Sep-18			<ul> <li>TCSS Configuration Management</li> </ul>			
SUB1360 Video So	cript	0	0 14-Jan-19*					Lift Installation - Design Data			
	nent of technician apprentices & civil engineering				14-Jan-19				Video Script		
graduate	es	0	0 15-Nov-18 A		16-Oct-18		Employment of te	echnician apprentices & civil engineering gra	duates		
	ull detail programme	0	0 05-Nov-18 A		21-Oct-18		ıbmit full detail programme				
	Lighting Luminaires and System	0	0 30-Nov-18*		16-Oct-18			ITP's for Lighting Luminaires and System	n		
SUB1405 All Lighti	ng Designs	0	0 30-Nov-18*		16-Oct-18			All Lighting Designs			
SUB1407 Interface Docume	Management Plan & Detailed Interface	0	0 05-Nov-18 A		16-Oct-18		terface Management Plan &	Detailed Interface Document			
SUB1410 Combine	ed Services Drawings (CSD)	0	0 30-Nov-18*		25-Oct-18			Combined Services Drawings (CSD)			
ESIGN SUBM	ISSION							Combined Services Drawings (CSD)			
ENERAL											
DES1030 PM Con	sent for Contruction	28	11 10 Cap 10 A	10 Dec 10							
			11 18-Sep-18 A	10-Dec-18	25-Sep-18	22-Oct-18		PM Consent for Contruction	'n		
	MODIFICATION WORKS (Alternative Des	lign)									
	w & comment	28	28 10-Oct-18 A	27-Dec-18	14-Sep-18	11-Oct-18		PM	review & comment		-
DES1060 Re-subm	nit Alternative Design for Slab Widening of NHA & g of Bridge N264 w/Design Certificate	22	22 29-Dec-18	19-Jan-19	13-Oct-18	03-Nov-18			Be-submit Alt	ernative Design for Slab Wide	ning of NILLA 8
Widening	sent for Construction	28	28 20-Jan-19	16-Feb-19	04-Nov-18	01-Dec-18		-			
Widening				04-Dec-18	14-Sep-18	04-Oct-18		Prepare & submit Alternative Desig			onsent for Cons

ity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP2) Start	DWP (AP2) Finish	Nov	2018	Dec		lan	2019		
DES1090	PM review & comment	28	28	05-Dec-18		05-Oct-18	01-Nov-18	5		6		Jan 7		Feb 8	N
DES1100	Re-submit Alternative Desing for Modification of Bridge	23	23			03-Nov-18	25-Nov-18				PM review &				
DES1110	N263 w/Design Certificate PM Consent for Construction	28	28	26-Jan-19	22-Feb-19	26-Nov-18	23-Dec-18						Re-submit Alter	native Desing for N	Addification of
DES1120	Prepare & submit Alternative Design of Bridges SR2 & SR5, Slab Widening of SHA & Widening of Bridge N262	21	20	30-Nov-18 A	24-Dec-18	05-Oct-18	25-Oct-18			Prov	are f autorit Altern		1		PM Conse
DES1130	PM review & comment	28	28	25-Dec-18	21-Jan-19	26-Oct-18	22-Nov-18				pare & submit Altern				
DES1140	Re-submit Alternative Design of Bridges SR2 & SR5, Slab Widening of SHA & Widening of Bridge N262 w/Design	28	28	22-Jan-19	18-Feb-19	23-Nov-18	20-Dec-18					PMIN	eview & comme		
DES1150	PM Consent for Construction	28	28	19-Feb-19	18-Mar-19	21-Dec-18	17-Jan-19							Re	e-submit Alterr
NOISE MITTG	ATTON MEASURES												-		
DES1170	PM review & comment	28	24	03-Oct-18 A	23-Dec-18	14-Sep-18	11-Oct-18			PM re	view & comment		_		
DES1180	Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate	22	22	25-Dec-18	15-Jan-19	13-Oct-18	03-Nov-18					Be-submit Fo	undation Desig	of Noise Mitigatio	n Maaalaa k
DES1190	PM Consent for Construction	28	28	16-Jan-19	12-Feb-19	04-Nov-18	01-Dec-18						undation Design		ent for Constru
DES1210	PM review & comment	28	20	25-Oct-18 A	19-Dec-18	05-Oct-18	01-Nov-18			PM review	& comment				int for Constru
DES1220	Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	23	23	21-Dec-18	12-Jan-19	03-Nov-18	25-Nov-18					Re-submit Found	ation Design of	Noise Mitigation M	leasures in 7o
DES1230	PM Consent for Construction	28	28	13-Jan-19	09-Feb-19	26-Nov-18	23-Dec-18		-					PM Consent fo	
DES1240	Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate	21	21	30-Nov-18	20-Dec-18	05-Oct-18	25-Oct-18			Prepare 8	submit Foundation	Design of Mitigatio			
DES1250	PM review & comment	28	28	21-Dec-18	17-Jan-19	26-Oct-18	22-Nov-18						& comment		Joranoato
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	23	19-Jan-19	10-Feb-19	24-Nov-18	16-Dec-18	-						Re-submit Fo	oundation Dev
DES1270	PM Consent for Construction	28	28	11-Feb-19	10-Mar-19	17-Dec-18	13-Jan-19								
DES1280	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate	21	21	21-Dec-18	10-Jan-19	26-Oct-18	15-Nov-18				Pr	epare & submit Su	perstructure De	sign of Noise Mitic	aation Measur
DES1290	PM review & comment	28	28	11-Jan-19	07-Feb-19	16-Nov-18	13-Dec-18			<u></u>				PM review & com	
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	09-Feb-19	28-Feb-19	15-Dec-18	03-Jan-19				-				Re
DES1320	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	11-Jan-19	31-Jan-19	16-Nov-18	06-Dec-18						Prepare	& submit Superstr	ructure Design
DES1330 DES1360	PM review & comment	28	28	01-Feb-19	28-Feb-19	07-Dec-18	03-Jan-19								PM
DES1300	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate PM review & comment	21	21	01-Feb-19		07-Dec-18	27-Dec-18								Prepare & s
REMAINING		28	28	22-Feb-19	21-Mar-19	28-Dec-18	24-Jan-19				-		•••••		
DES1410	PM review & comment	-													
DES1420	Re-submit Foundation Design of Retaining Walls RW1,	28		29-Oct-18 A	19-Dec-18	14-Sep-18	11-Oct-18		-	PM review a	& comment				
DES1430	RW3, RW6 & RW7 w/Design Certificate PM Consent for Construction	34	34	21-Dec-18		13-Oct-18	15-Nov-18					Re-	submit Foundat	ion Design of Reta	aining Walls R
DES1440	Prepare & submit Foundation Design of Footbridge NF40	28	28	24-Jan-19		16-Nov-18	13-Dec-18					C			PM Consent f
DES1450	& NF66 w/Design Certificate PM review & comment	21		16-Nov-18 A		14-Sep-18	04-Oct-18	C. State State	Prepa	re & submit Foundation D	esign of Footbridge	NF40 & NF66 w/	Design Certifica	e	
DES1460	Re-submit Foundation Design of Footbridge NF40 &	28	28	05-Dec-18	01-Jan-19 30-Jan-19	05-Oct-18	01-Nov-18				PM review & c	omment			
DES1470	NF66 w/Design Certificate PM Consent for Construction	28	28	31-Jan-19		03-Nov-18 08-Dec-18	07-Dec-18		_				Re-submit	Foundation Desig	in of Footbrid
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1	21		05-Dec-18		05-Oct-18	04-Jan-19 25-Oct-18								PM C
	& 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry										oare & submit Found	lation Design of P	edestrian Lift 1	& 2, Lift 2 Staircase	a, Cycle Track
Actual Le Primary E Actual We	Baseline			RO	AD WIDENI	NG & RETRO 3	Months Rolli	SE BARRIERS OI ng Programme ( Page 2 of 6	N TAI PO ROAD 30/11/18)	O (SHA TIN SECTION	l) Date 05/12/18	Revisi 3MRP DWP 18		Checked n	Approved

		Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP2) Start	DWP (AP2) Finish	Nov Dec	
DES1490	PM review & comment	28	28	26-Dec-18			_	5 6 7 g	
DES1500			20	20-Dec-18	22-Jan-19	26-Oct-18	22-Nov-18	8 PM review & comment	
DESISOU	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design	35	35	24-Jan-19	27-Feb-19	24-Nov-18	28-Dec-18	8	Re
DES1520	Prepare & submit Design of Watermain & Irrigation System w/Design Certificate	35	5	20-Nov-18 A	04-Dec-18	29-Jul-18	01-Sep-18	8 Prepare & submit Design of Watermain & Irrigation System w/Design Certificate	
DES1530	PM review & comment	28	28	05-Dec-18	01-Jan-19	02-Sep-18	29-Sep-18		
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	28	28	03-Jan-19	30-Jan-19	01-Oct-18	01-Nov-18	8	atormola 8 Inda
DES1550	PM Consent for Construction	28	28	31-Jan-19	27-Feb-19	02-Nov-18	29-Nov-18	Re-submit Design of W	
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	05-Dec-18	08-Jan-19	02-Sep-18	06-Oct-18	8 Prepare & submit Design of E&M System (E&M & Ro	PM
DES1570	PM review & comment	28	28	09-Jan-19	05-Feb-19	07-Oct-18	03-Nov-18	8	
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	07-Feb-19	10-Mar-19	05-Nov-18	06-Dec-18	PM review & co	mment
UBLET	TING & PROCUREMENT SCHED		C. S. S. S.		10 10 10 10 10				
SUBLETTING		OLL							
SPS1000									
	Maintenance of Traffic Flow	30	30	18-Dec-18	16-Jan-19	25-Sep-18	24-Oct-18	8 Maintenance of Traffic Flow	
SPS1010	Electronic Document Management System (EDMS) for the use of the Project Manager	30	12	18-Oct-18 A	11-Dec-18*	02-Oct-18	31-Oct-18		
SPS1020	Photographs	30	0	28-Sep-18 A	12-Nov-18	02-Oct-18	31-Oct-18		
SPS1030	Hoarding and Signboard	30	30	30-Nov-18	29-Dec-18	02-Oct-18	31-Oct-18	B Hoarding and Signboard	
SPS1040	Survey of the Site	30	30	18-Dec-18	16-Jan-19	25-Sep-18	24-Oct-18		
SPS1050	Public Relations Work Including Public Relations Offocer)	30	0	28-Sep-18 A	08-Nov-18	02-Oct-18	31-Oct-18		
SPS1060	Security System of the Site	30	30	30-Nov-18	29-Dec-18	02-Oct-18	31-Oct-18		
SPS1070	Construction Video film production + reproduction	30	0	28-Sep-18 A	12-Nov-18	02-Oct-18	31-Oct-18		
SPS1080	Pre-construction condition survey	30	0	30-Oct-18 A	15-Nov-18	25-Sep-18	24-Oct-18		
SPS1090	Building Information Model (BIM)	30	30	30-Nov-18	29-Dec-18	02-Oct-18	31-Oct-18	Building Information Model (BIM)	
SPS1100	Independent Checking Engineer	30	0	16-Oct-18 A	13-Nov-18	25-Oct-18	23-Nov-18		
SPS1110	Consultancy Services at Construction Stage	30	0	15-Oct-18 A	13-Nov-18	02-Oct-18	31-Oct-18		
SPS1140	Site Clearance and Demolition Work	30	30	17-Jan-19	15-Feb-19	25-Oct-18	23-Nov-18		- 01
SPS1150	Ground Investigation	30	0	05-Oct-18 A	12-Nov-18	25-Oct-18	23-Nov-18		e Clearance and
SPS1160	Monitoring and Instrumentation	30	30	16-Feb-19	A 17-Mar-19	24-Nov-18	23-Dec-18		
SPS1170	Piling Works and Pile Testing	30	30	30-Nov-18	29-Dec-18	25-Oct-18	23-Nov-18		
SPS1200	Waterwork (Pipework)	30	30	30-Nov-18	29-Dec-18	06-Aug-18	04-Sep-18	Piling Works and Pile Testing	
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	29-Jan-19	27-Feb-19	24-Dec-18	22-Jan-19	waterwork (Pipework)	
SPS1220	CCTV for Drainage Pipe	30	30	30-Nov-18	29-Dec-18	25-Oct-18	23-Nov-18		Dra
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	30-Nov-18	29-Dec-18	12-Oct-18	11-Nov-18		
SPS1250	Reinforced Concrete Work for Noise Mitigation Measures	30	30	18-Dec-18	16-Jan-19	25-Sep-18	24-Oct-18	Keinforced Concrete Work for Retaining Walls	
SPS1260	Reinforced Concrete Work for Bridge Work	30		16-Feb-19		23-Dec-18	21-Jan-19	Reinforced Concrete Work for Noise Mitiga	tion Measures
SPS1290	Steelwork for NB and Lift Tower	30		11-Jan-19		11-Jan-19	09-Feb-19		
Remaining Actual Lev Primary Bi	aseline			RO	AD WIDENII	NG & RETRO	FITTING NO	Discretion         Date         Revision         Checked           01/11/18)         05/12/18         3MRP DWP 1811         Tim	or NB and Lift T Approved

SPS1410		Duration	Duration	3MRP Start	3MRP Finish	DWP (AP2) Start	DWP (AP2)	Mar	2018				2019		
	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve &						Finish	Nov 5		Dec 6		Jan		eb	N
	Signature)	30	30	01-Dec-18	30-Dec-18	17-Sep-18	16-Oct-18				Pedestrian Lift	(Lift Cars, E&M, Pane	Lourve & Signature	8	_
SPS1420	Lighting System for Noise Mitigation Measures	30	30	12-Dec-18	10-Jan-19	25-Aug-18	23-Sep-18								
SPS1440	Drainage for Noise Mitigation Measures	30	30	12-Dec-18	10-Jan-19	25-Aug-18	23-Sep-18					Lighting System for No		res	
SPS1460	Waterproofing (Bitumen Paint)	30	30	25-Jan-19	23-Feb-19	25-Oct-18	23-Nov-18					Drainage for Noise Mi	tigation Measures		
WORK B	ETWEEN SHING MUN TUNNEL	S BOAR	AND	FOOT										N	Vaterpr
PRELIMINAR	ES WORKS	S NUAL	AND	FOUL	SRIDGE	NF71A (	ZONE								
	TRAFFIC ARRAGEMENT														
	TRAFFIC ARRAGEMENT												••••		
TTA PERIOD															
Z1_1410	Construction Zone 1_Stage 1 Southbound structure	271	271	27-Feb-19	29-Jan-20	22-Jan-19	09-Oct-19								
PREPARATOR	YWORKS														100000
TREE FELLI	NG/TRANPLANT										_		-		
Z1_1290															
	Zone 1_tree felling works	18	18	22-Jan-19	15-Feb-19	06-Nov-18	27-Nov-18		•		•••••				
MODIFICATIO	ON EXISTING ROAD/TEMPORARY ROAD				Cash Mark							ton a star		Zone 1_tree	rewing
Z1_1270	Zone 1-1_construct temporary road platform along Northbound with remove centre barrier	73	73	15-Feb-19*	18-May-19	27-Nov-18	22-Jan-19								
NOISE BARRI	ER AND SEMI-ENCLOSURE					the second second									
PILE FOUNDA	TION WORKS														
SOUTHBOUN	ID														
							CANADA LA							••••••	<u>-</u>
Z1_1050	R2_site investigation for R2-02P & 06P (7nr)	18	18	27-Feb-19	20-Mar-19	22-Jan-19	15-Eeb-19						1		- 10
				27-Feb-19		22-Jan-19	15-Feb-19							•	
VORK BI	ETWEEN CITYLINE PLAZA AND						15-Feb-19							•	_
	ETWEEN CITYLINE PLAZA AND						15-Feb-19							•	
	ETWEEN CITYLINE PLAZA AND						15-Feb-19							•	
	ETWEEN CITYLINE PLAZA AND						15-Feb-19							•	
VORK BI	ETWEEN CITYLINE PLAZA AND	) FOOTE	RIDG	E NF40	(ZONE	3)								-	
VORK BI PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1		RIDG		(ZONE		15-Feb-19							•	
VORK BI PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY	ETWEEN CITYLINE PLAZA AND ES WORKS IRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS	) FOOTE	RIDG	E NF40	(ZONE	3)								•	
WORK BU PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS	) FOOTE	RIDG	E NF40	(ZONE	3)									
VORK BI PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY	ETWEEN CITYLINE PLAZA AND ES WORKS IRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS	) FOOTE	RIDG 324	E NF40	(ZONE 31-Mar-20	3)								•	
WORK BL PRELIMINARII TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS	9 FOOTE 324	RIDG 324	E NF40 27-Feb-19	(ZONE 31-Mar-20	3) 22-Jan-19	11-Mar-20					Zone 3_tree felling w	orks	•	
WORK BL PRELIMINARII TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS IG/TRANPLANT Zone 3_tree felling works	9 FOOTE 324	324 18	E NF40 27-Feb-19 20-Dec-18	(ZONE 31-Mar-20 12-Jan-19	3) 22-Jan-19 28-Nov-18	11-Mar-20 19-Dec-18		•			Zone 3_tree felling w	orks	•	
WORK BU PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810	ETWEEN CITYLINE PLAZA AND ES WORKS (RAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS (G/TRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD	324 18	324 18	E NF40 27-Feb-19	(ZONE 31-Mar-20 12-Jan-19	3) 22-Jan-19	11-Mar-20					Zone 3_tree felling w		Zone 3-1_rem	ove exis
VORK BU PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S	ETWEEN CITYLINE PLAZA AND ES WORKS (RAFFIC ARRAGEMENT Construction period of Zone 3a_1 CONSTRUCTION PERIOD AND CONSTRUCTION PORARY ROAD Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS	324 18	324 18	E NF40 27-Feb-19 20-Dec-18	(ZONE 31-Mar-20 12-Jan-19	3) 22-Jan-19 28-Nov-18	11-Mar-20 19-Dec-18					Zone 3_tree felling w		Zone 3-1_rem	cove exi
VORK BU PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS	324 18	324 18	E NF40 27-Feb-19 20-Dec-18	(ZONE 31-Mar-20 12-Jan-19	3) 22-Jan-19 28-Nov-18	11-Mar-20 19-Dec-18					Zone 3_tree felling w		Zone 3-1_rem	ove exi
WORK BU PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STR UC TURE WORKS S WORKS S WORKS	324 18	324 18	E NF40 27-Feb-19 20-Dec-18	(ZONE 31-Mar-20 12-Jan-19	3) 22-Jan-19 28-Nov-18	11-Mar-20 19-Dec-18					Zone 3_tree felling w		Zone 3-1_rem	ove exi
VORK BU PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STR UC TURE WORKS S WORKS S WORKS	324 18	324 18	E NF40 27-Feb-19 20-Dec-18	(ZONE 31-Mar-20 12-Jan-19	3) 22-Jan-19 28-Nov-18	11-Mar-20 19-Dec-18					Zone 3_tree felling w		Zone 3-1_rem	Cove exis
WORK BI PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND B PRELIMINARIE UTILITIES DIV NORTHBOUN	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STR UC TURE WORKS IS WORKS IERSION ID UU_CLP-abandoned 11kv cable for RW6 CH1675-1725	324 18 21	324 18 21	E NF40 27-Feb-19 20-Dec-18 14-Jan-19	(ZONE 31-Mar-20 12-Jan-19 14-Feb-19	3) 22-Jan-19 28-Nov-18 19-Dec-18	11-Mar-20 19-Dec-18 22-Jan-19								
VORK BU PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV NORTHBOUN Z3_2910	ETWEEN CITYLINE PLAZA AND ES WORKS IRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS ERSION UD UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 Som	324 18 21	324 18 21 13	E NF40 27-Feb-19 20-Dec-18 14-Jan-19 07-Jan-19	(ZONE 31-Mar-20 12-Jan-19 14-Feb-19 22-Jan-19	3) 22-Jan-19 28-Nov-18 19-Dec-18 08-Dec-18	11-Mar-20 19-Dec-18 22-Jan-19 24-Dec-18								
VORK BU PRELIMINARII TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV NORTHBOUN Z3_2910 Z3_2920	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS ERSION UD UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 Som UU_HKT-diversion cable for RW7 CH1830-2000 170m	324 18 21	324 18 21 13	E NF40 27-Feb-19 20-Dec-18 14-Jan-19	(ZONE 31-Mar-20 12-Jan-19 14-Feb-19 22-Jan-19	3) 22-Jan-19 28-Nov-18 19-Dec-18	11-Mar-20 19-Dec-18 22-Jan-19		-						11675-1
WORK BI PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV NORTHBOUN Z3_2910 Z3_2920	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS IG/TRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS ERSION UD UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 Som UU_HKT-diversion cable for RW7 CH1830-2000 170m Level of Effort	324 18 21	324 18 21 13	E NF40 27-Feb-19 20-Dec-18 14-Jan-19 07-Jan-19 08-Jan-19	(ZONE 31-Mar-20 12-Jan-19 14-Feb-19 22-Jan-19 20-Feb-19	3) 22-Jan-19 28-Nov-18 19-Dec-18 06-Dec-18 10-Dec-18	11-Mar-20 19-Dec-18 22-Jan-19 24-Dec-18 22-Jan-19						2-abandoned 11ky ca	ble for RW6 CH	11675-1 (T-diver
VORK BU PRELIMINARII TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV NORTHBOUN Z3_2910 Z3_2920	ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS ERSION UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 S0m UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 S0m UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 S0m UU_HKT-diversion cable for RW7 CH1830-2000 170m Level of Effort Remaining Work	324 18 21	324 18 21 13	E NF40 27-Feb-19 20-Dec-18 14-Jan-19 07-Jan-19 08-Jan-19	(ZONE 31-Mar-20 12-Jan-19 14-Feb-19 22-Jan-19 20-Feb-19	3) 22-Jan-19 28-Nov-18 19-Dec-18 06-Dec-18 10-Dec-18	11-Mar-20 19-Dec-18 22-Jan-19 24-Dec-18 22-Jan-19 FITTING NOIS	SE BARRIERS ON	TAI PO ROAD 0/11/18)					ble for RW6 CH	11675-17

	Activity Name	Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP2)	DWP (AP2)	Al	2018				2019	
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4					Start	Finish	Nov 5		Dec 6	Jan		Feb	
	CH1825-1950 125m	22	22	22-Jan-19	20-Feb-19	24-Dec-18	22-Jan-19						8	UU CLP-ab
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23	23	27-Feb-19	26-Mar-19	22-Dec-18	22-Jan-19							
SOUTHBOI	DUND													
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127	127	08-Feb-19	16-Jul-19	08-Feb-19	16-Jul-19							
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 CH1710-1950 240m	35	35	14-Jan-19	27-Feb-19	08-Dec-18	22-Jan-19		C. C					
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1850 210m	51	51	22-Dec-18	27-Feb-19	20-Nov-18	22-Jan-19							
Z3_3070	UU_HKT-diversion cable for SR2 & N263 CH1630-1840	39	39	09-Jan-19	27-Feb-19	04-Dec-18	22-Jan-19							UL
Z3_3110	210m UU_GAS-diversion LP pipe for N263 CH1825-1960	38	38		27-Feb-19	05-Dec-18	22-Jan-19							UL
MIDENING FO	135m FOR NORTH HOLLOW ABUTMENT (N264)				2110010	03-060-10	22-Jan-19				<b>Francisco</b>			UL.
Z3_4200	C01_ELS & footing construction	45	45	10 5 1 10										
Z3_4220	N264_modification existing MTRC fencing for deck			18-Feb-19		22-Jan-19	19-Mar-19						and the second	
_	widening	60	60	18-Feb-19	03-May-19	22-Jan-19	05-Apr-19							
	ON OF BRIDGE N263													
MODIFICATIO	ION EXISTING PIER WALL OF N263													
Z3_3870	SAW-1_piling works for new NHA wall 3nr 1.5m bored pile	42	42	27-Feb-19	18-Apr-19	22-Jan-19	15-Mar-19							
RETAINING W	WALL & SUBWAY													
RETAINING V	WALL NO.6		E ARASA	300 March		The state of the second								
Z3_4390	RW6_ELS works for Bay 601 to Bay 608 (62m_2 side)	35	35	15-Feb-19*	27-Mar-19	22-Jan-19	07-Mar-19							-
RETAINING V	WALL NO.7			and the second										
Z3_4510	RW7_ELS works for Bay 701 to Bay 705 (75m_2 side)	42	42	20-Feb-19	11 4 10									
					11-Apr-19	22-Jan-19	15-Mar-19					-		
DELIMINADI		ID NF6	6 (ZO)	NE 4)								-		
	TRAFFIC ARRAGEMENT													
TTA PERIOD								•••••						
Z4_1470	Construction Zone 4_NF66 Construction	243	243	27-Feb-19	20-Dec-19	22-Jan-19	18-Nov-19							
Z4_1480	Construction Zone 4_NF40 Construction	489	489	23- Jan- 19	16-Sep-20	00 1 40								100000
		409	403	Lo ourris	10 000-20	23-Jan-19	16-Sep-20							
-	RY WORKS	409	463	20 001-13	10 000-20	23-Jan-19	16-Sep-20							
REPARATOR	RY WORKS	403	463	20 001110	10 000-20	23-Jan-19	16-Sep-20							
REPARATOR														
REPARATOR TREE FELLIN Z4_1320	NG/TRANPLANT Zone 4_NB tree felling works	469		28-Jan-19		23-Jan-19 06-Nov-18	16-Sep-20 27-Nov-18							Zone 4_NB
TREE FELLIN Z4_1320	NG/TRANPLANT Zone 4_NB tree felling works VERSION													Zone 4_NB
REPARATOR TREE FELLIN Z4_1320	ING/TRANPLANT Zone 4_NB tree felling works VERSION ND	18	18	28-Jan-19	21-Feb-19									Zone 4_NB
REPARATOR TREE FELLIN Z4_1320 UTILITIES DIV NORTHBOUN Z4_1270	NG/TRANPLANT Zone 4_NB tree felling works VERSION ND UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m		18		21-Feb-19									Zone 4_NB
TREE FELLIN Z4_1320 TILITIES DIV NORTHBOUN Z4_1270 Z4_1300	ING/TRANPLANT         Zone 4_NB tree felling works         VERSION         ND         UU_CLP-abandoned 33kv cable for N4 CH2100-2350         250m         UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	18	18 36	28-Jan-19	21-Feb-19 04-Apr-19	06-Nov-18	27-Nov-18							Zone 4-NB
REPARATOR TREE FELLIN Z4_1320 TILITIES DIV NORTHBOUN Z4_1270	NG/TRANPLANT Zone 4_NB tree felling works VERSION ND UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m	18 36	18 36 5	28-Jan-19 21-Feb-19	21-Feb-19 04-Apr-19 27-Feb-19	06-Nov-18 27-Nov-18	27-Nov-18 11-Jan-19							
<b>REPARATOR</b> TREE FELLIN Z4_1320 <b>TILITIES DIV</b> <b>NORTHBOUN</b> Z4_1270 Z4_1300 Z4_1360	ING/TRANPLANT         Zone 4_NB tree felling works         VERSION         ND         UU_CLP-abandoned 33kv cable for N4 CH2100-2350         250m         UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	18 36 5	18 36 5	28-Jan-19 21-Feb-19 21-Feb-19	21-Feb-19 04-Apr-19 27-Feb-19	06-Nov-18 27-Nov-18 16-Jan-19	27-Nov-18 11-Jan-19 22-Jan-19							
REPARATOR TREE FELLIN Z4_1320 TILITIES DIV NORTHBOUN Z4_1270 Z4_1300 Z4_1360	NG/TRANPLANT         Zone 4_NB tree felling works         VERSION         ND         UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m         UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m         UU_Fresh watermain for N4 CH2150-2200 77m 600mm         STRUCTURE WORKS	18 36 5	18 36 5	28-Jan-19 21-Feb-19 21-Feb-19 27-Feb-19	21-Feb-19 04-Apr-19 27-Feb-19 16-Apr-19	06-Nov-18 27-Nov-18 16-Jan-19 03-Dec-18	27-Nov-18 11-Jan-19 22-Jan-19 22-Jan-19							
REPARATOR TREE FELLIN Z4_1320 TILITIES DIV NORTHBOUN Z4_1270 Z4_1300 Z4_1360	NG/TRANPLANT         Zone 4_NB tree felling works         VERSION         ND         UU_CLP-abandoned 33kv cable for N4 CH2100-2350         250m         UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m         UU_Fresh watermain for N4 CH2150-2200 77m 600mm         STRUCTURE WORKS         vel of Effort       Remaining Work         vel of Effort       Critical Remaining Work	18 36 5	18 36 5	28-Jan-19 21-Feb-19 21-Feb-19 27-Feb-19	21-Feb-19 04-Apr-19 27-Feb-19 16-Apr-19	06-Nov-18 27-Nov-18 16-Jan-19 03-Dec-18	27-Nov-18 11-Jan-19 22-Jan-19 22-Jan-19	SE BARRIERS ON	TAI PO ROAD (SH	A TIN SECTION)	Date 05/12/18 3MF	Revision IP DWP 1811	Checked	Zone 4_NB

ctivity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP2)	DWP (AP2)		2018		2019	
			Saration		T IIIISI	Start	Finish	Nov	Dec	Jan	Feb	Ma
MODIFICATION	WORKS FOR NF40				1			5	6	7	8	9
NF40_1000	Construct temporary staircase	60	60	23-Jan-19	05-Apr-19	23-Jan-19	05-Apr-19					
MODIFICATION	WORKS FOR NF66											
NF66_1000	Piling for NF66 new support 12nr mini pile	48	48	27-Feb-19	29-Apr-19	22-Jan-19	22-Mar-19					
		the second										

Remaining Level of Effort Remaining Work					
Actual Level of Effort Critical Remaining Wo	ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)	Date	Revision	Checked	Approv
Primary Baseline	3 Months Rolling Programme (30/11/18)	05/12/18	3MRP DWP 1811	Tim	
Actual Work	Page 6 of 6				

	Activity Name		Remaining 3MRP Star Duration	rt 3MRP Finish D	WP (AP3) [ Start	DWP (AP3) Finish	2018 Dec	Jan	Feb	2019
Contract	t NE/2017/05 Road Widening and I	Retrofi	tina Noise B	arriers on T	ai Po R	load	6	7	8	
	CT KEY DATES		<b>.</b>							
POSSESSIO										
KEY1050	Possession of Portion D	0	0 23-Jan-19	* 2	23-Jan-19			Possession	n of Portion D	
PRELIM	IINARIES & GENERAL REQUIREM	ENT								
	SUBMISSION					-				
SUB1115	Survey of the Site	0	0 31-Dec-18	* 3	30-Nov-18			<ul> <li>Survey of the Site</li> </ul>		
SUB1153	BIM Team	0	0 31-Dec-18	)* <u> </u>	30-Nov-18			◆ BIM Team		
SUB1155	BIM Execution Plan	0	0 31-Dec-18		30-Nov-18			<ul> <li>BIM Execution Plan</li> </ul>		
SUB1180	Recording photo	0	0 31-Dec-18		30-Nov-18			<ul> <li>Recording photo</li> </ul>		
		0						-		
SUB1200	Hoarding Plan		0 31-Dec-18		30-Nov-18			Hoarding Plan		
SUB1305	Holding nursery for transplanted trees	0	0 31-Dec-18		30-Nov-18			<ul> <li>Holding nursery for transplanted trees</li> </ul>		
SUB1307	Geotechnical monitoring personnel	0	0 31-Dec-18	* 3	30-Nov-18			Geotechnical monitoring personnel		
SUB1309	Geotechnical monitoring proposal	0	0 31-Dec-18	* 3	30-Nov-18			Geotechnical monitoring proposal		
SUB1343	TCSS Configuration Management	0	0 31-Dec-18	* 3	30-Nov-18			<ul> <li>TCSS Configuration Management</li> </ul>		
SUB1347	Lift Installation - Design Data	0	0 31-Dec-18	* 3	30-Nov-18			Lift Installation - Design Data		
SUB1360	Video Script	0	0 14-Jan-19	*	14-Jan-19			Video Script		
SUB1403	ITP's for Lighting Luminaires and System	0	0 31-Dec-18	* 3	30-Nov-18			<ul> <li>ITP's for Lighting Luminaires and System</li> </ul>		
SUB1405	All Lighting Designs	0	0 31-Dec-18	.* 3	30-Nov-18			♦ All Lighting Designs		
SUB1410	Combined Services Drawings (CSD)	0	0 31-Dec-18	.* 3	30-Nov-18			<ul> <li>Combined Services Drawings (CSD)</li> </ul>		
DESIGN	SUBMISSION									
GENERAL										
DES1030	PM Consent for Contruction	28	25 18-Sep-18	A 24-Jan-19 3	30-Nov-18	27-Dec-18		PM Cons	ent for Contruction	
	ERCHANGE MODIFICATION WORKS (Alternative Desig									
DES1070	PM Consent for Construction	28	20 06 Nov 18	A 21-Feb-19 2	20 Jan 19	16 Eob 10			DM Com	ant fax Cana
										sent for Cons
DES1080	Prepare & submit Alternative Design for Modification of Bridge N263 w/Design Certificate	21				20-Dec-18	Prepare & su	bmit Alternative Design for Modification of Bridge N26	3 w/Design Certificate	
DES1090	PM review & comment	28	10 07-Dec-187		05-Dec-18	01-Jan-19		PM review & comment		
DES1100	Re-submit Alternative Desing for Modification of Bridge N263 w/Design Certificate	23	23 11-Jan-19	9 02-Feb-19 0	03-Jan-19	25-Jan-19			Re-submit Alternative Desing for Modifie	cation of Brid
DES1110	PM Consent for Construction	28	28 03-Feb-19	9 02-Mar-19 2	26-Jan-19	22-Feb-19				PM Co
DES1120	Prepare & submit Alternative Design of Bridges SR2 & SR5, Slab Widening of SHA & Widening of Bridge N262	21	17 30-Nov-187	A 16-Jan-19 0	01-Dec-18	21-Dec-18			native Design of Bridges SR2 & SR5, Slab Wi	
	PM review & comment	28	28 17-Jan-19	9 13-Feb-19 2	25-Dec-18	21-Jan-19			PM review & commer	
DES1130	Re-submit Alternative Design of Bridges SR2 & SR5,	28	28 14-Feb-19	9 13-Mar-19 2	22-Jan-19	18-Feb-19				
DES1130 DES1140										
	Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction	28	28 14-Mar-19	9 10-Apr-19 1	19-Feb-19	18-Mar-19				
DES1140 DES1150	Slab Widening of SHA & Widening of Bridge N262	28	28 14-Mar-19	9 10-Apr-19 1	19-Feb-19	18-Mar-19				
DES1140 DES1150	Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES							Re-submit Foundation [	esion of Noise Mitigation Measures in Zones	1 & 2 w/Des
DES1140 DES1150 NOISE MITIC DES1180	Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate	22	12 24-Nov-18/	A 11-Jan-19 2	25-Dec-18	15-Jan-19		Re-submit Foundation D	Design of Noise Mitigation Measures in Zones	
DES1140 DES1150 NOISE MITIC DES1180 DES1190	Slab Widening of SHA & Widening of Bridge N262         PM Consent for Construction         GATION MEASURES         Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate         PM Consent for Construction	22 28	12 24-Nov-18 / 28 25-Jan-11	A 11-Jan-19 2 9 21-Feb-19 1	25-Dec-18 16-Jan-19	15-Jan-19 12-Feb-19			PM Con	sent for Cons
DES1140 DES1150 NOISE MITTO DES1180 DES1190 DES1220	Slab Widening of SHA & Widening of Bridge N262         PM Consent for Construction         GATION MEASURES         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 1 & 2 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 4 & 5 w/Design Certificate	22 28 23	12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 /	A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18 A 2	25-Dec-18 16-Jan-19 21-Dec-18	15-Jan-19 12-Feb-19 12-Jan-19			PM Con: n of Noise Mitigation Measures in Zones 4 & 5	sent for Cons 5 w/Design C
DES1140 DES1150 NOISE MITIC DES1180 DES1190 DES1220 DES1230	Slab Widening of SHA & Widening of Bridge N262         PM Consent for Construction         GATION MEASURES         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 1 & 2 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 1 & 2 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 4 & 5 w/Design Certificate         PM Consent for Construction	22 28 23 28	12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 / 28 25-Jan-19	A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18A 2 9 21-Feb-19 1	25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19	15-Jan-19 12-Feb-19 12-Jan-19 09-Feb-19		Re-submit Foundation Desig	PM Con-	sent for Cons 5 w/Design C sent for Cons
DES1140 DES1150 NOISE MITTO DES1180 DES1190 DES1220	Slab Widening of SHA & Widening of Bridge N262         PM Consent for Construction         GATION MEASURES         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 1 & 2 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 4 & 5 w/Design Certificate	22 28 23	12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 /	A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18A 2 9 21-Feb-19 1	25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19	15-Jan-19 12-Feb-19 12-Jan-19		Re-submit Foundation Desig	PM Con: n of Noise Mitigation Measures in Zones 4 & 5	sent for Cons 5 w/Design C sent for Cons
DES1140 DES1150 NOISE MITIC DES1180 DES1190 DES1220 DES1230	Slab Widening of SHA & Widening of Bridge N262         PM Consent for Construction         GATION MEASURES         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 1 & 2 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 4 & 5 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation         Measures in Zones 4 & 5 w/Design Certificate         PM Consent for Construction         Prepare & submit Foundation Design of Mitigation	22 28 23 28	12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 / 28 25-Jan-19	A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18 A 2 9 21-Feb-19 1 A 07-Jan-19 3	25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19	15-Jan-19 12-Feb-19 12-Jan-19 09-Feb-19		Re-submit Foundation Desig	PM Con-	sent for Cons 5 w/Design Co sent for Cons
DES1140 DES1150 NOISE MITTO DES1180 DES1190 DES1220 DES1220 DES1230	Slab Widening of SHA & Widening of Bridge N262         PM Consent for Construction         GATION MEASURES         Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate         PM Consent for Construction         Perpare & submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate         PM Consent for Construction         Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate         PM review & comment         Re-submit Foundation Design of Noise Mitigation	22 28 23 28 28 21	12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 / 28 25-Jan-19 8 26-Nov-18 /	A         11-Jan-19         2           9         21-Feb-19         1           A         31-Dec-18 A         2           9         21-Feb-19         1           A         31-Dec-18 A         2           9         21-Feb-19         1           A         07-Jan-19         3           9         04-Feb-19         2	25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19 30-Nov-18	15-Jan-19 12-Feb-19 12-Jan-19 09-Feb-19 20-Dec-18		Re-submit Foundation Desig	PM Con- n of Noise Mitigation Measures in Zones 4 & 5 PM Con- of Mitigation Measures in Zone 3 w/Design C	sent for Cons 5 w/Design Co sent for Cons
DES1140 DES1150 NOISE MITTO DES1180 DES1190 DES1220 DES1230 DES1240 DES1250	Slab Widening of SHA & Widening of Bridge N262         PM Consent for Construction         GATION MEASURES         Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate         PM Consent for Construction         Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate         PM review & comment	22 28 23 28 21 28 21 28	12 24-Nov-187 28 25-Jan-19 0 10-Nov-187 28 25-Jan-19 8 26-Nov-187 28 08-Jan-19	A       11-Jan-19       2         9       21-Feb-19       1         A       31-Dec-18 A       2         9       21-Feb-19       1         A       07-Jan-19       3         9       04-Feb-19       2         9       28-Feb-19       1	25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19 30-Nov-18 21-Dec-18	15-Jan-19 12-Feb-19 12-Jan-19 09-Feb-19 20-Dec-18 17-Jan-19		Re-submit Foundation Desig	PM Con- n of Noise Mitigation Measures in Zones 4 & 5 PM Con- of Mitigation Measures in Zone 3 w/Design C	sent for Cons 5 w/Design Cons sent for Cons entificate
DES1140 DES1150 NOISE MITTO DES1180 DES1200 DES1220 DES1230 DES1240 DES1250	Slab Widening of SHA & Widening of Bridge N262         PM Consent for Construction         GATION MEASURES         Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate         PM Consent for Construction         Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate         PM Consent for Construction         Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate         PM review & comment         Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	22 28 23 28 21 28 21 28 23	12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 / 28 25-Jan-19 28 26-Nov-18 / 28 08-Jan-19 28 08-Jan-19 28 08-Jan-19	A         11-Jan-19         2           9         21-Feb-19         1           A         31-Dec-18 A         2           9         21-Feb-19         1           A         07-Jan-19         3           9         04-Feb-19         2           9         28-Feb-19         1	25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19 30-Nov-18 21-Dec-18 19-Jan-19	15-Jan-19 12-Feb-19 12-Jan-19 09-Feb-19 20-Dec-18 17-Jan-19 10-Feb-19		Re-submit Foundation Design	PM Con- n of Noise Mitigation Measures in Zones 4 & 5 PM Con- of Mitigation Measures in Zone 3 w/Design C	sent for Cons 5 w/Design C sent for Cons ertificate Re-subm

		10-Jan-19
Mar 9		Apr 10
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struction		
lge N263 w/Design Certificate		
onsent for Construction		
IA & Widening of Bridge N262		rt.
Re-submit Alterna	tive Design c	of Bridges SR2 & SR5, Slab Widening of SHA &
		PM Consent for Construction
ign Certificate		
struction		
ertificate		
struction		
it Foundation Design of Noise	Mitigation Me	easures in Zone 3 w/Design Certificate
	PM Co	onsent for Construction
Measures in Zones 1 & 2 w/De	sign Certific	ate
	Checked	Approved
3MRP DWP 1812	Tim	

ity ID	Activity Name	Original Duration	Remaining Duration	3MRP Star	3MRP Finish	DWP (AP3) Start	DWP (AP3) Finish	2018 Dec 6	Jan 7	Feb	2019
DES1290	PM review & comment	28	28	29-Jan-19	25-Feb-19	11-Jan-19	07-Feb-19	U			PM revie
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	27-Feb-19	18-Mar-19	09-Feb-19	28-Feb-19				_ <u>_</u> ;
DES1310	PM Consent for Construction	28	28	19-Mar-19	15-Apr-19	01-Mar-19	28-Mar-19				_
DES1320	Prepare & submit Superstructure Design of Noise	21	21	29-Jan-19	18-Feb-19	11-Jan-19	31-Jan-19			Prepare & si	submit Sı
DES1330	Mitigation Measures in Zone 3 w/Design Certificate PM review & comment	28	28	19-Feb-19	18-Mar-19	01-Feb-19	28-Feb-19				
DES1340	Re-submit Superstructure Design of Noise Mitigation	21	21	20-Mar-19	09-Apr-19	02-Mar-19	22-Mar-19				
DES1360	Measures in Zone 3 w/Design Certificate Prepare & submit Superstructure Design of Noise	21	21	19-Feb-19	11-Mar-19	01-Feb-19	21-Feb-19				
DES1370	Mitigation Measures in Zones 4 & 5 w/Design PM review & comment	28	28	12-Mar-19	08-Apr-19	22-Feb-19	21-Mar-19				
EMAINING	WORKS										
DES1410	PM review & comment	28	0	29-Oct-18 A	20-Dec-18 A	30-Nov-18	27-Dec-18	PM	review & comment		
DES1420	Re-submit Foundation Design of Retaining Walls RW1.			21-Dec-18 A						Po submit Foundation Design of Potaining	
	RW3, RW6 & RW7 w/Design Certificate									Re-submit Foundation Design of Retaining	
DES1430	PM Consent for Construction	28									PN
ES1440	Prepare & submit Foundation Design of Footbridge NF40 & NF66 w/Design Certificate	21	0	16-Nov-18 A	31-Dec-18 A	30-Nov-18	20-Dec-18		Prepare & submit Foundation Design of Foot	oridge NF40 & NF66 w/Design Certificate	
ES1450	PM review & comment	28	28	31-Dec-18	27-Jan-19	05-Dec-18	01-Jan-19		÷	PM review & comment	
ES1460	Re-submit Foundation Design of Footbridge NF40 & NF66 w/Design Certificate	35	35	29-Jan-19	04-Mar-19	03-Jan-19	30-Jan-19			-	
ES1470	PM Consent for Construction	28	28	05-Mar-19	01-Apr-19	31-Jan-19	27-Feb-19			<u>.</u>	-
ES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign	21	8	26-Nov-18 A	07-Jan-19	05-Dec-18	25-Dec-18		Prepare & submit Foundation De	sign of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cyc	cle Trac
ES1490	PM review & comment	28	28	08-Jan-19	04-Feb-19	26-Dec-18	22-Jan-19			PM review & comment	
ES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2,	35	35	06-Feb-19	12-Mar-19	24-Jan-19	27-Feb-19				<u> </u>
ES1510	Lift 2 Staircase, Cycle Track Ramp & Sign Gantry PM Consent for Construction	28	28	13-Mar-19	09-Apr-19	28-Feb-19	27-Mar-19				
ES1520	Prepare & submit Design of Water main & Irrigation	35	0	20-Nov-18 A	31-Dec-18 A	30-Nov-18	03-Jan-19		Prepare & submit Design of Watermair	& Irrigation System w/Design Certificate	
ES1530	System w/Design Certificate PM review & comment	28	28	31-Dec-18	27-Jan-19	05-Dec-18	01-Jan-19			PM review & comment	
ES1540	Re-submit Design of Watermain & Irrigation System	32	32	29-Jan-19	01-Mar-19	03-Jan-19	30-Jan-19				
ES1550	w/Design Certificate PM Consent for Construction	28				31-Jan-19				—	
ES1560	Prepare & submit Design of E&M System (E&M & Road					05-Dec-18				Prepare & submit Design of E&M Sys	-
	Lighting) w/Design Certificate										Sterin (E
ES1570	PM review & comment	28				09-Jan-19					
ES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	05-Mar-19	05-Apr-19	07-Feb-19	10-Mar-19				
	TING & PROCUREMENT SCHEI	DULE									
JBLETTING											
PS1000	Maintenance of Traffic Flow	30	30	31-Dec-18	29-Jan-19	18-Dec-18	16-Jan-19			Maintenance of Traffic Flow	
PS1010	Electronic Document Management System (EDMS) for the use of the Project Manager	30	12	18-Oct-18 A	11-Jan-19*	30-Nov-18	29-Dec-18		Electronic Document Mar	agement System (EDMS) for the use of the Project	ct Man
PS1030	Hoarding and Signboard	30	30	31-Dec-18	29-Jan-19	30-Nov-18	29-Dec-18			Hparding and Signboard	
PS1040	Survey of the Site	30	30	31-Dec-18	29-Jan-19	18-Dec-18	16-Jan-19			Survey of the Site	
PS1060	Security System of the Site	30	30	31-Dec-18	29-Jan-19	30-Nov-18	29-Dec-18			Security System of the Site	
PS1090	Building Information Model (BIM)	30	30	31-Dec-18	29-Jan-19	30-Nov-18	29-Dec-18			Building Information Model (BIM)	
PS1140	Site Clearance and Demolition Work	30	30	30-Jan-19	28-Feb-19	17-Jan-19	15-Feb-19				= Si
PS1160	Monitoring and Instrumentation	30	30	01-Mar-19	30-Mar-19	16-Feb-19	17-Mar-19				
PS1170	Piling Works and Pile Testing	30	30	01-Jan-19	30-Jan-19	30-Nov-18	29-Dec-18			Piling Works and Pile Testing	
PS1200	Waterwork (Pipework)	30								Waterwork (Pipework)	
PS1210	Drainage (PC pipe, manhole & gully) and Duct	30				29-Jan-19				······································	
PS1220	CCTV for Drainage Pipe	30								CCTV for Drainage Pipe	-
										_	
PS1240	Reinforced Concrete Work for Retaining Walls	30								Reinforced Concrete Work for Retaining Wall	
PS1250	Reinforced Concrete Work for Noise Mitigation Measures	30				18-Dec-18				Reinforced Concrete Work for Noise Mitigatio	on Mea
PS1260	Reinforced Concrete Work for Bridge Work	30	30	15-Mar-19	13-Apr-19	16-Feb-19	17-Mar-19				
PS1290	Steelwork for NB and Lift Tower	30	30	11-Jan-19	09-Feb-19	11-Jan-19	09-Feb-19			Steelwork for NB and Lift To	ower
PS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	30	31-Dec-18	29-Jan-19	01-Dec-18	30-Dec-18			Pedestrian Lift (Lift Cars, E&M, Panel, Lourve	ə & Sig
PS1420	Lighting System for Noise Mitigation Measures	30	30	31-Dec-18	29-Jan-19	12-Dec-18	10-Jan-19			Lighting System for Noise Mitigation Measure	es
	maining Level of Effort Actual Wo ual Level of Effort Remaining		<b>◇</b>		aseline Milest lestone	one	ROAD W	IDENING & RETROFITTING N 3 Months R	OISE BARRIERS ON TAI PO olling Programme (31/12/18)		D 10-J

Mar 9		<u>Apr</u> 10
omment		10
Re-submi	t Superstruc	ture Design of Noise Mitigation Measures in Zo
		PM Consent for Const
ucture Design of Noise Mitiaa	tion Measure	es in Zone 3 w/Design Certificate
PM review	v & comment	t
		Ro submit Superatructura Dagis
		Re-submit Superstructure Desig
Prepare & submit Sup	erstructure	Design of Noise Mitigation Measures in Zones
······································		
		PM review & comment
RW3, RW6 & RW7 w/Design	Certificate	
ent for Construction		
submit Foundation Design of	Footbridge N	NF40 & NF66 w/Design Certificate
		PM Consent for Construction
& Sign Gantry w/Design C		
Re-submit Foundati	on Design o	f Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle T
		PM Consent for Construction
	-	
nit Design of Watermain & Irri	nation Syste	m w/Design Certificate
	gation by bio	w besign contineate
	PM	Consent for Construction
oad Lighting) w/Design Certifi	cate	
eview & comment		
		Re-submit Design of E&M System (E&I
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anao and Demellation Mont		
ance and Demolition Work		
	M	onitoring and Instrumentation
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	Dr	ainage (PC pipe, manhole & gully) and Duct
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		Reinforced Concrete Wor
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tivity ID	Activity Name		emaining? Duration		t 3MRP Finish	DWP (AP3) Star		2018 Dec	Jan	Feb	2019
SPS1440	Drainage for Noise Mitigation Measures	30	30	31-Dec-1	8 29-Jan-19	12-Dec-18	8 10-Jan-19	6	7	B Drainage for Noise Mitigation Measures	
SPS1460	Waterproofing (Bitumen Paint)	30	30	29-Jan-1	9 27-Feb-19	25-Jan-19	9 23-Feb-19				Waterproofing
	ETWEEN SHING MUN TUNNEL	S RUAD	AND	FOOTE	SRIDGE	NF/1A (	20NE 1)				
_											
PREPARATOR											
TREE FELLI	NG/TRANPLANT										
Z1_1290	Zone 1_tree felling works	18	18	09-Feb-1	9 02-Mar-19	22-Jan-19	9 15-Feb-19				Zone 1_tre
MODIFICATIO	ON EXISTING ROAD/TEMPORARY ROAD										
Z1_1270	Zone 1-1_construct temporary road platform along	45	45	02-Mar-1	9 29-Apr-19	15-Feb-19	9 18-May-19				
Z1_1280	Northbound           Zone 1-1_remove existing central barrier	21	21	26-Mar-1	9 29-Apr-19	15-Apr-19	9 17-May-19				
UTILITIES DIV	/ERSION										
NORTHBOU	ND										
Z1 1330	UU CLP-abandoned 33kv cable for R1 & R2 CH1075	11	- 11	28-Mar-1	9 10-Apr-19	03-Apr-19	9 17-Apr-19				
	30m	11	11				9 17-Api-19				
-	ETWEEN CITYLINE PLAZA AND	D FOOTB	BRIDG	ENF40	(ZONE :	3)					
PRELIMINARI	IES WORKS										
PREPARATOR	RYWORKS										
TREE FELLI	NG/TRANPLANT										
Z3_2800	Zone 3_tree felling works	18	18	31-Dec-1	8 21-Jan-19	20-Dec-18	8 12-Jan-19			Zone 3_tree felling works	
MODIFICATIO	ON EXISTING ROAD/TEMPORARY ROAD										
Z3_2810	Zone 3-1_remove existing central barrier	21	21	22-Jan-1	9 22-Feb-19	14-Jan-19	9 14-Feb-19				Zone 3-1 remove exist
PRELIMINARI											
UTILITIES DI	IVERSION										
NORTHBOL	JND										
Z3_2910	UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 50m	5 13	13	15-Jan-1	9 30-Jan-19	07-Jan-19	9 22-Jan-19			UU_CLP-abandoned 11kv cable for RV	V6 CH1675-1725 50m
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	n 34	34	16-Jan-1	9 28-Feb-19	08-Jan-19	9 20-Feb-19				UU_HKT-dive
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4	22	22	30-Jan-1	9 28-Feb-19	22-Jan-19	9 20-Feb-19				UU_CLP-aba
SOUTHBOL	CH1825-1950 125m JND										
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300	127	127	08-Feb-1	9 16-Jul-19	08-Feb-19	9 16-Jul-19				
 Z3_3050	850m UU CLP-abandoned 11kv cable for SR2 & N263	35	35								
	CH1710-1950 240m										
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1850 210m	51	51								_
Z3_3070	UU_HKT-diversion cable for SR2 & N263 CH1630-184 210m		39								—
Z3_3110	UU_GAS-diversion LP pipe for N263 CH1825-1960 135m	38	38	15-Feb-1	9 30-Mar-19	10-Jan-19	9 27-Feb-19				-
WIDENING FO	OR NORTH HOLLOW ABUTMENT (N264)										
Z3_4200	C01_ELS & footing construction	45	45	21-Feb-1	9 16-Apr-19	18-Feb-19	9 11-Apr-19				
Z3_4220	N264_modification existing MTRC fencing for deck	60	60	21-Feb-1	9 08-May-19	18-Feb-19	9 03-May-19				1
RETAINING W	widening VALL & SUBWAY										
RETAINING \	WALL NO.6										
Z3_4390	RW6_ELS works for Bay 601 to Bay 608 (62m_2 side)	35	35	23-Feb-1	9 04-Apr-19	15-Feb-19	9 27-Mar-19			_	
				23-Feb-1	9 04-Api-19	13-Feb-18	9 27-IVIdI-19				
RETAINING \	WALL NO.7										
Z3_4510	RW7_ELS works for Bay 701 to Bay 705 (75m_2 side)	42	42	28-Feb-1	9 23-Apr-19	20-Feb-19	9 11-Apr-19			—	1
WORK B	ETWEEN FOOTBRIDGE NF40 A	AND NF6	6 (ZO	NE 4)							
PRELIMINARI											
TEMPORARY											
TTA PERIOD											
Z4_1480	Construction Zone 4_NF40 Construction	489	489	23-Jan-1	9 16-Sep-20	23-Jan-19	9 16-Sep-20				****
		405	403	23-0411-1	9 10-3ep-20	23-3 dil-18	9 10-3ep-20				
PREPARATOR	RYWORKS										
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			•	A -			<b>BA</b> • <b>F</b> • <sup>2</sup>				Date
	naining Level of Effort Actual Wo		<b></b>		aseline Miles	sione	HOAD W			AI PO ROAD (SHA TIN SECTION)	10-Jan-19 3M
	ual Level of Effort Remaining	-	•	● M	ilestone			3 Months F	Rolling Programme (31/	12/18)	
Prin	nary Baseline Critical Re	emaining Wo	ULK						Page 3 of 4		

Mar	Apr 10
9	IU
(Bitumen Paint)	
ee felling works	
	UU_CLP-abandone
tion applied berief	
ting central barrier	
ersion cable for RW7 CH1830-2000 1	70m
andoned 11kv cable for RW7 & SR4 C	
andoned TTKV cable for RVV7 & SR4 C	H1825-1950 12500
	UU_CLP-abandoned 11kv cable for SR2 & N263
	UU_GAS-diversion LP pipe for SR2 & N263 CH1
	UU_HKT-diversion cable for SR2 & N263 CH163
	UU_GAS-diversion LP pipe for N263 CH1825-19
	C01_ELS & footing c
	RW6_ELS works for Bay 601 to Bay 608
	RW7_EL
*****	*****
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IRP DWP 1812 Tim	

ctivity ID	Activity Name	Original	Remaining	3MRP Start	3MRP Finish	DWP (AP3)	DWP (AP3)	2018		2	2019
		Duration	Duration			Start		Dec	Jan	Feb	
								6	7	8	I
TREE FELLING	G/TRANPLANT										
Z4_1320	Zone 4_NB tree felling works	18	18	05-Mar-19	26-Mar-19	28-Jan-19	21-Feb-19				
UTILITIES DIVE	ERSION										
NORTHBOUN	ID										
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	26-Mar-19	01-Apr-19	21-Feb-19	27-Feb-19				
BRIDGE AND S	STRUCTURE WORKS	J I		-							
MODIFICATION	N WORKS FOR NF40										
NF40_1000	Construct temporary staircase	60	60	23-Jan-19	05-Apr-19	23-Jan-19	05-Apr-19				-
											1

Remaining Level of Effort	

Actual Level of EffortPrimary Baseline

Actual Work
Remaining Work

Baseline Milestone
 Milestone

 Remaining Work

 Milestone
 Critical Remaining Work
 Milestone

 Date

 Date

 3 Months Rolling Programme (31/12/18)

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Mar 9	Apr 10
9	10
	Zone 4_NB tree felling works
	UU_HKT-slew cable for N4 & NF66 CH2320
	Construct temporary staircase
	1

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MRP DWP 1812	Tim	

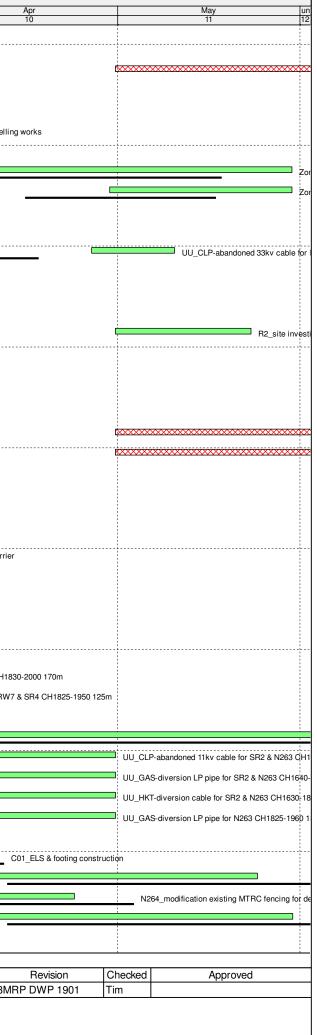
ID	Activity Name	Original I Duration	Remaining 3MRP St Duration	art 3MRP Finish	DWP (AP3) Start	DWP (AP3) Finish	Jan	Feb	2019 Mar	
ontract	NE/2017/05 Road Widening and	Retrofi	tting Noise F	Barriers or	n Tai Po	Road	7	8	9	-
	T KEY DATES									
DSSESSION										
EY1050	Possession of Portion D	0	0 23-Jan-19	A	23-Jan-19		🕏 Possessio	priof Portion D		
	NARIES & GENERAL REQUIREM	IENT					·			
	JBMISSION									
UB1115	Survey of the Site	0	0 31-Jan-1	9*	30-Nov-18			Survey of the Site		
UB1153	BIM Team	0	0 31-Jan-1	9*	30-Nov-18			BIM Team		
UB1155	BIM Execution Plan	0	0 31-Jan-1	9*	30-Nov-18			BIM Execution Plan		
JB1180	Recording photo	0	0 31-Jan-1		30-Nov-18			Recording photo		
JB1200	Hoarding Plan	0	0 31-Jan-1		30-Nov-18			<ul> <li>Hoarding Plan</li> </ul>		
JB1200	Holding nursery for transplanted trees	0	0 31-Jan-1		30-Nov-18			<ul> <li>Holding nursery for transplanted trees</li> </ul>		
UB1307		0								
JB1307 JB1309	Geotechnical monitoring personnel	0	0 31-Jan-1		30-Nov-18 30-Nov-18			Geotechnical monitoring personnel		
	Geotechnical monitoring proposal		0 31-Jan-1					Geotechnical monitoring proposal		
JB1343	TCSS Configuration Management	0	0 31-Jan-1		30-Nov-18			TCSS Configuration Management		
JB1347	Lift Installation - Design Data	0	0 31-Jan-1		30-Nov-18			Lift Installation - Design Data		
UB1360	Video Script	0	0 31-Jan-1		14-Jan-19		<b>♦</b>	Video Script		
UB1403	ITP's for Lighting Luminaires and System	0	0 31-Jan-1	9*	30-Nov-18			ITP's for Lighting Luminaires and System		
UB1405	All Lighting Designs	0	0 31-Jan-1	9*	30-Nov-18			All Lighting Designs		
JB1410	Combined Services Drawings (CSD)	0	0 31-Jan-1	9*	30-Nov-18			Combined Services Drawings (CSD)		
ESIGN	SUBMISSION									
RCR INTE	RCHANGE MODIFICATION WORKS (Alternative Desig	gn)								
ES1070	PM Consent for Construction	28	6 06-Nov-18	A 05-Feb-19	20-Jan-19	16-Feb-19		PM Consent for	Construction	
ES1090	PM review & comment	28	5 07-Dec-1	A 04-Feb-19	05-Dec-18	01-Jan-19		PM review & comment		
ES1100	Re-submit Alternative Desing for Modification of Bridge N263 w/Design Certificate	23	23 06-Feb-	19 28-Feb-19	03-Jan-19	25-Jan-19			Re-submit Alternative Desing for Modification of I	3ridge N
ES1110	PM Consent for Construction	28	28 01-Mar-	19 28-Mar-19	26-Jan-19	22-Feb-19			PN	Conse
ES1120	Prepare & submit Alternative Design of Bridges SR2 & SR5, Slab Widening of SHA & Widening of Bridge N262	21	0 30-Nov-18	A 04-Jan-19A	01-Dec-18	21-Dec-18	Prepare & submit Alternative Design of Brid	dges SR2 & SR5, Slab Widening of SHA & Wid	ening of Bridge N262 w/Design Cert.	
ES1130	PM review & comment	28	12 05-Jan-19	A 11-Feb-19	25-Dec-18	21-Jan-19		PM review & comment		
ES1140	Re-submit Alternative Design of Bridges SR2 & SR5,	28	28 12-Feb-	19 11-Mar-19	22-Jan-19	18-Feb-19			Re-submit Alternative Design of	of Bridge
ES1150	Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction	28	28 12-Mar-	19 08-Apr-19	19-Feb-19	18-Mar-19				+
DISE MITIG	ATION MEASURES									
ES1180	Re-submit Foundation Design of Noise Mitigation	22	6 24-Nov-1	A 05-Feb-19	25-Dec-18	15-Jan-19		Re-submit Foundation Design of N	oişe Mitigation Measures in Zones 1 & 2 w/Design C	ertificate
ES1190	Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction	28	28 06-Feb-	19 05-Mar-19	16-Jan-19	12-Feb-19			PM Consent for Construction	
ES1230	PM Consent for Construction	28	14 02-Jan-19	A 13-Feb-19	13-Jan-19	09-Feb-19		PM Consent for Cons	truction	
ES1240	Prepare & submit Foundation Design of Mitigation	21	5 26-Nov-1	A 04-Feb-19					of Mitigation Measures in Zone 3 w/Design Certifica	ate
ES1250	Measures in Zone 3 w/Design Certificate PM review & comment	28	28 05-Feb-						PM review & comment	
ES1260	Re-submit Foundation Design of Noise Mitigation	23	23 06-Mar-							e-submit
ES1200	Measures in Zone 3 w/Design Certificate PM Consent for Construction	23								່ ouomit ¦
									Design of Nation Mittanting March 1	
ES1280	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 1 & 2 w/Design	21	3 14-Jan-19					Prepare & submit Superstructur	re Design of Noise Mitigation Measures in Zones 1 &	∠ w/Des
ES1290	PM review & comment	28	28 08-Feb-						PM review & comment	
ES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20 09-Mar-						- Re	e-submit
ES1310	PM Consent for Construction	28	28 29-Mar-	19 25-Apr-19	01-Mar-19	28-Mar-19				
ES1320	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21 08-Feb-	19 28-Feb-19	11-Jan-19	31-Jan-19			Prepare & submit Superstructure Design of Noise	Mitigat

		09-Fel	b-19
Anr		Мау	un
Apr 10		11	12
sign Certificate			
struction			
R5, Slab Widening of SHA	& Widening of I	Bridge N262 w/Design Certificate	
M Consent for Construction	ı		
<b>_</b>			
		Zone 3 w/Design Certificate	
	PM Consent for	CONSTRUCTION	
icate			
	notion #4		
	PM Consent for	s in Zone 1 & 2 w/Design Certificat	e
		Construction	
res in Zone 3 w/Design Ce			
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MRP DWP 1901	Tim	<u> </u>	

ty ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	DWP (AP3) Start	DWP (AP3) Finish	Jan	Feb	2019 Mar	
DES1330	PM review & comment	Duration 28	Duration 28	01-Mar-19	28-Mar-19	01-Feb-19		7	8	9	/ //review & comment
DES1340	Re-submit Superstructure Design of Noise Mitigation	20	20	30-Mar-19	19-Apr-19	02-Mar-19					
DES1350	Measures in Zone 3 w/Design Certificate PM Consent for Construction	28	28			23-Mar-19					
				20-Apr-19							
DES1360	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	21	21	01-Mar-19		01-Feb-19				Prepare & sub	mit Superstructure
DES1370	PM review & comment	28	28	22-Mar-19		22-Feb-19					
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	20-Apr-19	09-May-19	23-Mar-19	11-Apr-19				
REMAINING	NORKS										
DES1420	Re-submit Foundation Design of Retaining Walls RW1, RW3, RW6 & RW7 w/Design Certificate	, 34	0	21-Dec-18 A	10-Jan-19 A	21-Dec-18	23-Jan-19	Re-submit	Foundation Design of Retaining Walls RW1, F	W3, RW6 & RW7 w/Design Certificate	
DES1430	PM Consent for Construction	28	26	11-Jan-19 A	25-Feb-19	24-Jan-19	20-Feb-19		P	M Consent for Construction	
DES1450	PM review & comment	28	5	02-Jan-19 A	04-Feb-19	05-Dec-18	01-Jan-19		PM review & comment		
DES1460	Re-submit Foundation Design of Footbridge NF40 & NF66 w/Design Certificate	35	35	06-Feb-19	12-Mar-19	03-Jan-19	30-Jan-19			Re-submit Foundation Design	of Footbridge NF4
DES1470	PM Consent for Construction	28	28	13-Mar-19	09-Apr-19	31-Jan-19	27-Feb-19				P
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign	21	5	26-Nov-18 A	04-Feb-19	05-Dec-18	25-Dec-18		Prepare & submit Foundation Design	of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track	k Ramp & Sign Gan
DES1490	PM review & comment	28	28	05-Feb-19	04-Mar-19	26-Dec-18	22-Jan-19			PM review & comment	
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2,	35	35	06-Mar-19	09-Apr-19	24-Jan-19	27-Feb-19				Re
DES1510	Lift 2 Staircase, Cycle Track Ramp & Sign Gantry PM Consent for Construction	28	28	10-Apr-19	07-May-19	28-Feb-19	27-Mar-19			<u> </u>	=
DES1530	PM review & comment	28	10	02-Jan-19 A	09-Feb-19	05-Dec-18	01-Jan-19		PM review & comment		
DES1540	Re-submit Design of Watermain & Irrigation System	32	32	11-Feb-19	14-Mar-19	03-Jan-19	30-Jan-19			Re-submit Design of Wate	main & Irrigation
DES1550	w/Design Certificate PM Consent for Construction	28	28	15-Mar-19	11-Apr-19	31-Jan-19	27-Feb-19			, , , , , , , , , , , , , , , , , , ,	
DES1560	Prepare & submit Design of E&M System (E&M & Road	35	35	31-Jan-19	06-Mar-19	05-Dec-18	08-Jan-19			Prepare & submit Design of E&M System	m (E&M & Road Lio
DES1570	Lighting) w/Design Certificate PM review & comment	28	28	07-Mar-19	03-Apr-19	09-Jan-19	05-Feb-19	_			PM review 8
DES1580	Re-submit Design of E&M System (E&M & Road	32	32			07-Feb-19					
	Lighting) w/Design Certificate		UL	00740110	oo may 10	07 1 00 10					
	TING & PROCUREMENT SCHE	DULE									
SUBLETTING			00		01 M 40	10.5 10	10 1 10				
SPS1000	Maintenance of Traffic Flow	30	30	31-Jan-19		18-Dec-18				Maintenance of Traffic Flow	
SPS1010	Electronic Document Management System (EDMS) for the use of the Project Manager	30		18-Oct-18 A		30-Nov-18			Electronic Document Mar	nagement System (EDMS) for the use of the Project N	Manager
SPS1030	Hoarding and Signboard	30	30	31-Jan-19	01-Mar-19	30-Nov-18	29-Dec-18			Hoarding and Signboard	
SPS1040	Survey of the Site	30	30	31-Jan-19	01-Mar-19	18-Dec-18	16-Jan-19			Survey of the Site	
SPS1060	Security System of the Site	30	30	31-Jan-19	01-Mar-19	30-Nov-18	29-Dec-18			Security System of the Site	
SPS1090	Building Information Model (BIM)	30	30	31-Jan-19	01-Mar-19	30-Nov-18	29-Dec-18			Building Information Model (BIM)	
SPS1140	Site Clearance and Demolition Work	30	30	02-Mar-19	31-Mar-19	17-Jan-19	15-Feb-19				Site Clearance a
SPS1160	Monitoring and Instrumentation	30	30	01-Apr-19	30-Apr-19	16-Feb-19	17-Mar-19				
SPS1170	Piling Works and Pile Testing	30	30	31-Jan-19	01-Mar-19	30-Nov-18	29-Dec-18			Piling Works and Pile Testing	
SPS1200	Waterwork (Pipework)	30	30	31-Jan-19	01-Mar-19	30-Nov-18	29-Dec-18			Waterwork (Pipework)	
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	01-Apr-19	30-Apr-19	29-Jan-19	27-Feb-19	_			
SPS1220	CCTV for Drainage Pipe	30	30	31-Jan-19	01-Mar-19	30-Nov-18	29-Dec-18			CCTV for Drainage Pipe	
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	31-Jan-19	01-Mar-19	30-Nov-18	29-Dec-18			Reinforced Concrete Work for Retaining Walls	
SPS1250	Reinforced Concrete Work for Noise Mitigation	30	30	31-Jan-19	01-Mar-19	18-Dec-18	16-Jan-19			Reinforced Concrete Work for Noise Mitigation	Measures
SPS1260	Measures Reinforced Concrete Work for Bridge Work	30	30	17-Mar-19	16-Apr-19	16-Feb-19	17-Mar-19				1
SPS1290	Steelwork for NB and Lift Tower	30	30	31-Jan-19	01-Mar-19	11-Jan-19	09-Feb-19			Steelwork for NB and Lift Tower	
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve &	30	30	01-Feb-19	02-Mar-19	01-Dec-18	30-Dec-18			Pedestrian Lift (Lift Cars, E&M, Panel, Lourve	& Signature)
SPS1420	Signature) Lighting System for Noise Mitigation Measures	30	30	01-Feb-19	02-Mar-19	12-Dec-18	10-Jan-19			Lighting System for Noise Mitigation Measure	
SPS1440	Drainage for Noise Mitigation Measures	30	30	01-Feb-19	02-Mar-19	12-Dec-18				Drainage for Noise Mitigation Measures	
SPS1460	Waterproofing (Bitumen Paint)	30	30	28-Feb-19	29-Mar-19	25-Jan-19					Materproofing (Bitu
										v	later provinny (DI W
	ETWEEN SHING MUN TUNNEL	S ROA	D AND	FOOT B	RIDGE N	IF71A (Z	20NE 1)				
NORK B											
	IES WORKS										
PRELIMINAR	IES WORKS naining Level of Effort Actual Wo	ork	\$	♦ Ba	seline Milest	one	ROAD W	IDENING & RETROFITTIN	G NOISE BARRIERS ON TAI	PO ROAD (SHA TIN SECTION)	Date
PRELIMINAR			♦		seline Milest	one	ROAD W		G NOISE BARRIERS ON TAI s Rolling Programme (31/01)		Date 09-Feb-193I

Anr	1	May	lun
Apr 10		11	un 12
Po submit S	uporetructuro	Design of Noise Mitigation Measures in	Zono
ne-subilit s		Design of Noise Mitigation Measures in	Zone
		PM Consent for Cor	nstruc
Design of Noise Mitigation I	Measures in 7	ones 4 & 5 w/Design Certificate	
		Shed 4 d 6 W/Design Continuate	
PM review & c	omment		
		Re-submit Superstructure Design	h of N
		··· ··································	
	- + -		
) & NF66 w/Design Certific	ale		
Consent for Construction			
ry w/Design C			
y w/Design O			
-submit Foundation Design	of Pedestriar	n Lift 1 & 2, Lift 2 Staircase, Cycle Track	; Bam
		-	
		PM Consent for Construction	
ystem w/Design Certificate			
PM Consent for Construct	ion		
nting) w/Design Certificate			
comment			
		Re-submit Design of E&M System (E&	M 8.
d Damalitian Wards			
d Demolition Work			
	Monitori	ng and Instrumentation	
	Drainag	e (PC pipe, manhole & gully) and Duct	
	Dramay	e (ropipe, mannole & guily) and Duct	
Reinforced Concr	ete Work for E	Bridge Work	
		C C	
an Daint)			
en Paint)			
Revision	Checked	Approved	
IRP DWP 1901	Tim		

tivity ID	Activity Name	Original	Remaining	3MRP Start	3MRP Finish	DWP (AP3)	DWP (AP3)					2019	
		Duration	Duration			Start	Finish	Jan 7	Fe	eb B	Mar 9		
TEMPORARY	TRAFFIC ARRAGEMENT												
TTA PERIOD	)												
Z1_1410	Construction Zone 1_Stage 1 Southbound structure	260	260	30-Apr-19	13-Mar-20	27-Feb-19	29-Jan-20						
PREPARATO	RYWORKS												
TREE FELLI	NG/TRANPLANT												
Z1_1290	Zone 1_tree felling works	18	16	25-Jan-19 A	01-Apr-19	22-Jan-19	15-Feb-19			_			Zone 1_tree felli
MODIFICATI	ON EXISTING ROAD/TEMPORARY ROAD												
Z1_1270	Zone 1-1_construct temporary road platform along	45	45	01-Apr-19	30-May-19	15-Feb-19	18-May-19						
Z1 1280	Northbound Zone 1-1_remove existing central barrier	21	21	29-Apr-19	30-May-19	15-Apr-19	17-May-19						
NORTHBOU													
		11	11	00 Apr 10	10 May 10	02 Apr 10	17 Apr 10						
Z1_1330	UU_CLP-abandoned 33kv cable for R1 & R2 CH1075 30m	11	11	26-Apr-19	10-May-19	03-Apr-19	17-Apr-19						
	IER AND SEMFENCLOSURE												
	ATION WORKS												
SOUTHBOU	ND												
Z1_1050	R2_site investigation for R2-02P & 06P (7nr)	18	18	30-Apr-19	23-May-19	27-Feb-19	20-Mar-19						
<b>NORK B</b>	ETWEEN CITYLINE PLAZA ANI	D FOOT	<b>BRIDG</b>	ENF40	(ZONE 3	3)							
PRELIMINAR	IES WORKS												
TEMPORARY	TRAFFIC ARRAGEMENT												
TTA PERIOD	)												
Z3_3270	Construction period of Zone 3a_1	354	354	30-Apr-19	10-Jul-20	27-Feb-19	31-Mar-20						
Z3_3400	Construction period of Zone 3b_1	401	401	30-Apr-19	03-Sep-20	18-Mar-19	29-May-20						
PREPARATO	RYWORKS												
	NG/TRANPLANT												
Z3_2800	Zone 3_tree felling works	18	11	22-Jan-19 A	15-Feb-19	20-Dec-18	12-Jan-19			Zone 3 tree felling works			
	ON EXISTING ROAD/TEMPORARY ROAD	10		EE Guil 1071		20 200 10	12 041110			Zone o_tree terming works			
		01	01	15 Eab 10	18-Mar-19	14 lag 10	14 Eab 10						
Z3_2810	Zone 3-1_remove existing central barrier	21	21	15-Feb-19	10-11141-19	14-Jan-19	14-Feb-19					Zone 3-1_remove e	existing central barri
PRELIMINARI													
UTILITIES DI													
NORTHBOU													
Z3_2910	UU_CLP-abandoned 11kv cable for RW6 CH1675-172 50m	25 13	13	01-Feb-19	20-Feb-19	07-Jan-19	22-Jan-19			UU_CLP-abandon	ed 11kv cable for RW6	6 CH1675-1725 50m	
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	n 34	34	02-Feb-19	18-Mar-19	08-Jan-19	20-Feb-19					UU_HKT-diversion	cable for RW7 CH1
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m	22	22	20-Feb-19	18-Mar-19	22-Jan-19	20-Feb-19					UU_CLP-abandone	d 11kv cable for RW
SOUTHBOU													
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300	127	127	08-Feb-19	16-Jul-19	08-Feb-19	16-Jul-19			: : :			1
Z3_3050	850m UU_CLP-abandoned 11kv cable for SR2 & N263	35	35	15-Mar-19	30-Apr-19	14-Jan-19	27-Feb-19						
Z3_3060	CH1710-1950 240m UU_GAS-diversion LP pipe for SR2 & N263	51	51	25-Feb-19	30-Apr-19	22-Dec-18	27-Feb-19						
Z3_3070	CH1640-1850 210m UU HKT-diversion cable for SR2 & N263 CH1630-184	40 39	39	11-Mar-19	30-Apr-19	09-Jan-19	27-Feb-19						
 Z3_3110	210m UU_GAS-diversion LP pipe for N263 CH1825-1960	38			30-Apr-19								
	135m DR NORTH HOLLOW ABUTMENT (N264)				007.0	10 0411 10	27.100.10						
		45	45	00 E-h 40	01 Am 10	40 E-h 40	41 4						
Z3_4200	C01_ELS & footing construction	45			01-Apr-19								
Z3_4210	C01_cloumn construction	40											
Z3_4220	N264_modification existing MTRC fencing for deck widening	60			23-Apr-19								
Z3_4240	N264_temporary protection MTRC cable	45	45	02-Apr-19	30-May-19	12-Apr-19	10-Jun-19						
MODIFICATIO	DN OF BRIDGE N263												
										ı			1
Rer	maining Level of Effort Actual W	ork	<b></b>	♦ Ba	seline Milest	one	ROAD W	/IDENING & RETROFITTIN	IG NOISE BARR	IERS ON TAI PO I	ROAD (SHA T	N SECTION)	Date
Actu	ual Level of Effort Remainin	ng Work	•	♦ Mile	estone					amme (31/01/19)			09-Feb-193N
Prin	mary Baseline Critical R	emaining \	Work						Page 3 of				
									-				



Activity ID	Activity Name	Original Duration	Remaining 3MRP Start Duration	3MRP Finish DWP (A	P3) DWP (AP3) tart Finish	Jan	Feb	2019 Mar	Apr	May un
MODIFICATI	ON EXISTING PIER WALL OF N263					7	8	9	10	11 12
										<u> </u>
Z3_3870	SAW-1_piling works for new NHA wall 3nr 1.5r pile	m bored 42	42 30-Apr-19	21-Jun-19 27-Feb	-19 18-Apr-19			-		
MODIFICATI	ON EXISTING SOUTH HOLLOW ABUTMENT W	ALL								
Z3_3950	SHA_piling works for pier SHA6 nos. Socket H	H-pile 48	48 30-Apr-19	28-Jun-19 18-Mar	-19 20-May-19					· · · · · · · · · · · · · · · · · · ·
RETAINING W	ALL & SUBWAY									
RETAINING										
Z3_4390	RW6_ELS works for Bay 601 to Bay 608 (62m_	_2 side) 35	35 18-Mar-19	03-May-19 15-Feb	-19 27-Mar-19					RW6_ELS works for Bay 601 to Bay 608 (62m_2
RETAINING	WALL NO.7									
Z3_4510	RW7_ELS works for Bay 701 to Bay 705 (75m_	_2 side) 42	42 18-Mar-19	11-May-19 20-Feb	-19 11-Apr-19				1 1	RW7_ELS works for Bay 701 to Ba
	ETWEEN FOOTBRIDGE NF		100 (ZONE 4)							
PRELIMINAR										
TEMPORARY	TRAFFIC ARRAGEMENT									
TTA PERIOD										
Z4_1470	Construction Zone 4_NF66 Construction	243	243 30-Apr-19	22-Feb-20 27-Feb	19 20-Dec-19					***************************************
Z4_1480	Construction Zone 4_NF40 Construction	489	489 31-Jan-19	24-Sep-20 23-Jan	-19 16-Sep-20			*****		*****
PREPARATOR										
TREE FELLII	NG/TRANPLANT									
Z4_1320	Zone 4_NB tree felling works	18	17 25-Jan-19 A	24-Apr-19 28-Jan	-19 21-Feb-19	-	<b>-</b>	-	Zone 4_	NB tree felling works
UTILITIES DIV	ERSION									
NORTHBOU	ND									
	UU_HKT-slew cable for N4 & NF66 CH2320-23	360 40m 5	5 24-Apr-19	30-Apr-19 21-Feb	-19 27-Feb-19					
Z4_1300		300 4011 3	5 24-Api-19	30-Api-19 21-1 eb	27-160-13			-		UU_HKT-slew cable for N4 & NF66 CH2320-2360 40
BRIDGE AND	STRUCTURE WORKS									
MODIFICATIO	N WORKS FOR NF40									
NF40_1000	Construct temporary staircase	60	60 31-Jan-19	15-Apr-19 23-Jan	-19 05-Apr-19				Construct temporary st	taircase
NF40 1010	Demolish existing staircase & part of existing f	footing 45	45 16-Apr-19	13-Jun-19 08-Apr	-19 04-Jun-19					
	N WORKS FOR NF66	Ũ	·	·						
										<u> </u>
NF66_1000	Piling for NF66 new support 12nr mini pile	48	48 30-Apr-19	28-Jun-19 27-Feb	-19 29-Apr-19					
WORK B	ETWEEN FOOTBRIDGE NE	F66 AND FC	TAN ROAD (ZO	ONE 5)						
PRELIMINAR	ES WORKS									
PREPARATOR	RY WORKS									
TREE FELLU	NG/TRANPLANT									
		10	17 00 lon 10 A	10 Eab 00 17 Oat	10 07 Nev 10					
Z5_1710	Zone 5_tree felling works	18	17 22-Jan-19 A	13-Feb-20 17-Oct	-19 07-Nov-19					
PORTION	NE (ZONE 5)									
PRELIMINAR	ES WORKS									
PREPARATOR	RY WORKS									
TREE FELLI	NG/TRANPLANT									
Z5E 1140	Portion E_tree felling works	30	28 22-Jan-19 A	15-Sep-20 09-May	-20 13-Jun-20					
202_1110			20 22 04.1 107.1						1	<u> </u>
	naining Level of Effort Act	ual Work	♦ ♦ Bas	seline Milestone					Date Revision C	hecked Approved
	•							AI PO ROAD (SHA TIN SECTION)		im
		maining Work	◆ ◆ Mile	SUNC		3 Mont	hs Rolling Programme (31/0	11/19)		
- Prin	nary Baseline Crit	tical Remaining	VV OFK				Page 4 of 4			

Remaining Level of Effort	Actual Work	$\diamond$	♦ Baseline Milestone	ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)				
Actual Level of Effort	Remaining Work	•	♦ Milestone	3 Months Rolling Programme (31/01/19)	09-Feb-19	) 3N		
	8	• ,						
Primary Baseline Critical Remaining Work				Page 4 of 4				

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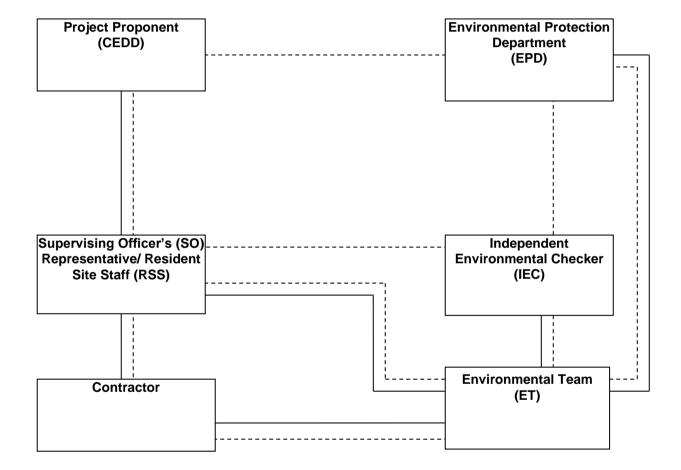


Appendix B

**Project Organization Chart** 

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Legen	Legend:							
	Line of Reporting							
	Line of Communication							

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Appendix C

Action and Limit Levels for Air Quality and Noise

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Parameter	Monitoring Station	Action Level (μg/m³)	Limit Level (µg/ m <sup>3</sup> )			
	AMS 1	171				
	AMS 2	166				
	AMS 3A	200				
	AMS 4A	200				
24-hr TSP	AMS 7A	171	260			
(µg/m³)	AMS 9	159	200			
	AMS 12	168				
	AMS 13	174				
	AMS 14	174				
	AMS 15	172				
	AMS 1	350				
	AMS 2	324				
	AMS 3A	350				
	AMS 4A	348				
1-hr TSP	AMS 7A	344	500			
(µg/m³)	AMS 9	327	- 500			
	AMS 12	296	]			
-	AMS 13	303	]			
	AMS 14	350	]			
-	AMS 15	350				

## Action and Limit Levels for 24-hr TSP and 1-hr TSP

## Action and Limit Levels for Construction Noise, Leq (30min), dB(A)

Time Period	Location	Action	Limit
0700-1900 hrs on normal weekdays	NMS1 NMS2 NMS3 NMS4 NMS5A NMS6A NMS7 NMS7 NMS7 NMS10A* NMS10A* NMS11 NMS12* NMS13 NMS14 NMS15 NMS16 NMS15 NMS16 NMS15 NMS16 NMS17* NMS18 NMS19 NMS20 NMS20 NMS23 NMS24 NMS25A NMS25A NMS26 NMS27*	When one documented complaint is received	75 dB(A)

\* For NMS 10A, 12, 17 and 27, the Limit Level is reduced to 70 dB(A) for schools and 65 dB(A) during school examination periods.

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Appendix D

**Graphical Presentation of Monitoring Data** 

#### 1-hour TSP Impact Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

#### AMS 1 Scenery Court

			1-	nour TSP (µg/i	nº)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
03-Jan-19	12:00	70	66	66	67			Cloudy
09-Jan-19	08:30	46	50	50	49			Fine
15-Jan-19	10:00	48	50	52	50	350	500	Cloudy
21-Jan-19	13:36	63	78	69	70	350	500	Fine
25-Jan-19	14:20	62	64	73	66			Fine
31-Jan-19	08:30	29	31	33	31			Fine
	Average		56					
	Max		78					
	Min		29					

...

#### AMS 2 Villa Le Parc

			1-1	hour TSP (µg/	m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-Dec-18	13:09	18	12	11	14			Sunny
10-Dec-18	15:13	41	44	44	43			Fine
14-Dec-18	15:56	99	99	130	109			Fine
20-Dec-18	15:00	62	62	60	61			Fine
24-Dec-18	09:00	65	63	63	64			Fine
28-Dec-18	13:15	60	60	58	59	324	500	Fine
04-Feb-19	10:40	48	46	45	46	-		Fine
08-Feb-19	10:56	45	45	42	44			Fine
14-Feb-19	10:57	45	40	38	41			Fine
20-Feb-19	11:13	24	20	16	20			Fine
26-Feb-19	10:00	26	24	20	23			Sunny
	Average		48					
	Max		130					
	Min		11					

#### AMS 3A Wai Wah Centre

			1-	hour TSP (µg/	m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-Dec-18	15:42	39	48	45	44			Fine
10-Dec-18	15:12	57	61	68	62			Fine
14-Dec-18	15:45	91	91	132	105			Fine
20-Dec-18	14:30	91	86	86	88			Fine
24-Dec-18	14:25	55	48	46	50		500	Fine
28-Dec-18	15:41	75	77	77	76	350		Fine
04-Feb-19	15:15	42	54	67	54			Fine
08-Feb-19	15:53	66	72	72	70			Fine
14-Feb-19	11:28	56	42	46	48			Fine
20-Feb-19	10:52	82	78	71	77			Fine
26-Feb-19	15:00	59	64	70	64			Sunny
	Average		67					
	Max		132		]			
	Min		39		1			

#### AMS 4A Wai Wah Centre

	1-hour TSP (µg/m³)											
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather				
03-Jan-19	12:30	78	78	74	77			Cloudy				
09-Jan-19	10:00	128	108	108	115			Fine				
15-Jan-19	15:00	71	69	68	69	348	500	Cloudy				
21-Jan-19	15:00	79	81	100	87	040		Fine				
25-Jan-19	10:00	69	59	45	58			Fine				
31-Jan-19	15:20	64	73	82	73			Fine				
	Average		80									
	Max 128											
	Min		45									

#### AMS 7A Sheung Wo Che

	1-hour TSP (µg/m³)											
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather				
04-Dec-18	15:49	17	20	21	19			Sunny				
10-Dec-18	10:24	44	33	39	39			Fine				
14-Dec-18	15:56	96	106	106	103	344	500	Fine				
20-Dec-18	09:30	95	96	95	95	344	500	Fine				
24-Dec-18	14:08	42	52	48	47			Fine				
28-Dec-18	09:00	67	62	60	63			Fine				
	Average		61									
	Max 106											
	Min		17									

Remark

 Min
 17
 I

 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
 2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

#### AMS 9 Shatin Tsung Tsin School

	1-hour TSP (µg/m³)											
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather				
04-Dec-18	10:50	28	24	26	26			Sunny				
10-Dec-18	10:00	27	27	29	28		500	Fine				
14-Dec-18	15:45	89	98	98	95	327		Fine				
20-Dec-18	10:00	60	64	64	62	521		Fine				
24-Dec-18	13:45	33	41	43	39			Fine				
28-Dec-18	10:00	57	63	65	62			Fine				
	Average		52									
	Max	<b>x</b> 98										
	Min		24									

### AMS 12 Fung Wo Estate

	1-hour TSP (μg/m³)											
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather				
03-Jan-19	14:00	79	77	76	77			Cloudy				
09-Jan-19	15:00	81	69	67	72		296 500	Fine				
15-Jan-19	15:30	67	69	71	69	296		Cloudy				
21-Jan-19	14:00	98	83	83	88	200		Fine				
25-Jan-19	12:17	49	33	27	36			Fine				
31-Jan-19	12:30	68	66	69	68			Fine				
	Average		68									
	Max		98									
	Min		27									

#### AMS13 - Fung Wo Estate

	1-hour TSP (μg/m³)											
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather				
04-Feb-19	15:40	46	48	56	50			Fine				
08-Feb-19	13:11	57	56	55	56			Fine				
14-Feb-19	15:14	54	58	62	58	303	500	Fine				
20-Feb-19	11:52	41	26	23	30			Fine				
26-Feb-19	15:17	64	65	73	67			Sunny				
	Average		52									
	Max		73									
	Min		23									

#### AMS 14 - Ha Wo Che

	1-hour TSP (µg/m³)											
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather				
04-Feb-19	08:45	67	71	67	69			Fine				
08-Feb-19	09:30	90	71	96	86			Fine				
14-Feb-19	10:00	35	26	39	34	350	500	Fine				
20-Feb-19	10:00	43	44	52	46			Fine				
26-Feb-19	14:00	57	69	72	66			Sunny				
	Average		60									
	Max		96									
	Min		26									

### AMS 15 Ha Wo Che

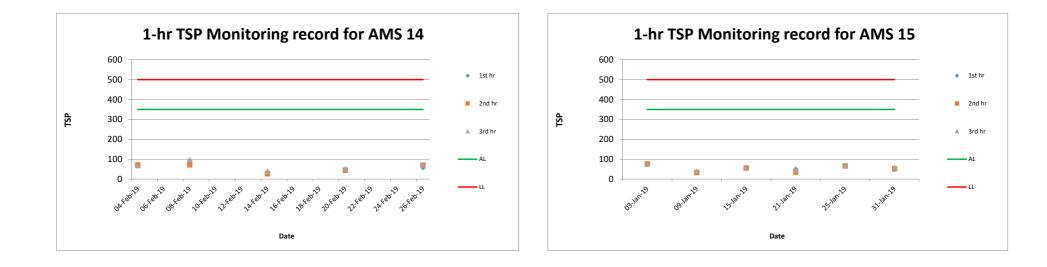
			1-h	our TSP (µg/n	n³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
03-Jan-19	09:00	74	76	76	75			Cloudy
09-Jan-19	14:00	33	33	39	35			Fine
15-Jan-19	10:15	53	55	57	55	350	500	Cloudy
21-Jan-19	09:30	50	35	46	44	350	500	Fine
25-Jan-19	12:30	68	66	69	68			Fine
31-Jan-19	09:00	48	52	59	53			Fine
	Average		55					
	Max		76					
	Min		33					

Remark

Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
 The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.







# 24-hour TSP Impact Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

Start Date		Air Temperature	Atmospheric Pressure, Pa	Filter W	eight (g)	Particulate		/m°/r		Average flow	Total volume	Conc.	Action Level	Limit Level
olan Dalo	Condition	(K)	(mmHg)	Initial	Final	weight (g)	Time(hrs)	Initial	Final	(m <sup>3</sup> /min.)	(m <sup>3</sup> )	(ug/m <sup>3</sup> )	-	$(ug/m^3)$
4-Dec-18	Sunny	298.0	762	2.7606	2.8835	0.1229	24	1.72	1.72	1.72	2479.11	50		
10-Dec-18	Fine	290.2	765	2.7907	2.8715	0.0808	24	1.67	1.64	1.65	2378.54	34		
14-Dec-18	Fine	290.0	769	2.7666	2.8318	0.0652	24	1.84	1.80	1.82	2621.65	25	171	260
20-Dec-18	Fine	294.8	762	2.7083	2.9605	0.2522	24	2.27	2.26	2.26	3259.30	77	171	200
24-Dec-18	Fine	291.2	763	2.7659	2.8431	0.0772	24	1.66	1.64	1.65	2375.17	33		
28-Dec-18	Fine	291.3	766	2.6708	2.7859	0.1151	24	1.91	1.88	1.90	2735.74	42		
											Min	25		
											Max	77	]	
											Average	43	]	

## AMS 7A - Sheung Wo Che

#### AMS 9 - Shatin Tsung Tsin School

Start Date	Weather	Air Temperature	Atmospheric Pressure, Pa	Filter W	eight (g)	Particulate		/m°/r		Average flow	Total volume		Action Level	Limit Level
	Condition	(K)	(mmHg)	Initial	Final	weight (g)	Time(fills)	Initial	Final	(m <sup>3</sup> /min.)	(m³)	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
4-Dec-18	Sunny	298.0	762	2.7829	2.8963	0.1134	24	1.8053	1.8027	1.80	2597.7173	44		
10-Dec-18	Fine	290.2	765	2.7939	2.8529	0.0590	24	1.5818	1.5557	1.57	2259.0256	26		
14-Dec-18	Fine	290.0	769	2.7667	2.8565	0.0898	24	1.6706	1.6381	1.65	2382.2571	38	159	260
20-Dec-18	Fine	294.8	762	2.7405	2.8057	0.0652	24	1.6498	1.6381	1.64	2367.2191	28	159	200
24-Dec-18	Fine	291.2	763	2.7730	2.8267	0.0537	24	1.6608	1.6381	1.65	2375.1668	23		
28-Dec-18	Fine	291.3	766	2.6010	2.6724	0.0714	24	1.9147	1.8850	1.90	2735.7366	26		
											Min	23		
											Max	44		
											Average	31	]	

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

Start Date		Air Temperature	Atmospheric Pressure, Pa	Filter W	eight (g)	Particulate		/m°/r		Average flow	Total volume	0	Action Level	Limit Level
	Condition	(K)	(mmHg)	Initial	Final	weight (g)	Time(hrs)	Initial	Final	(m <sup>3</sup> /min.)	(m³)	(ug/m³)	$(ug/m^3)$	(ug/m <sup>3</sup> )
3-Jan-19	Cloudy	289.4	768	2.7444	2.8290	0.0846	24	1.76	1.72	1.74	2502.65	34		
9-Jan-19	Fine	291.0	767	2.7221	2.8049	0.0828	24	1.92	1.88	1.90	2736.92	30		
15-Jan-19	Cloudy	292.2	764	2.7175	2.7662	0.0487	24	1.91	1.88	1.90	2731.71	18	171	260
21-Jan-19	Fine	291.0	766	2.7478	2.8647	0.1169	24	1.75	1.72	1.73	2497.61	47	171	200
25-Jan-19	Fine	291.9	766	2.6685	2.7157	0.0472	24	1.66	1.64	1.65	2375.91	20		
31-Jan-19	Fine	294.9	764	2.7698	2.8927	0.1229	24	1.86	1.84	1.85	2665.94	46		
											Min	18		
											Max	47		
											Average	32	1	

## AMS 1 - Scenery Court

## AMS 15 - Ha Wo Che

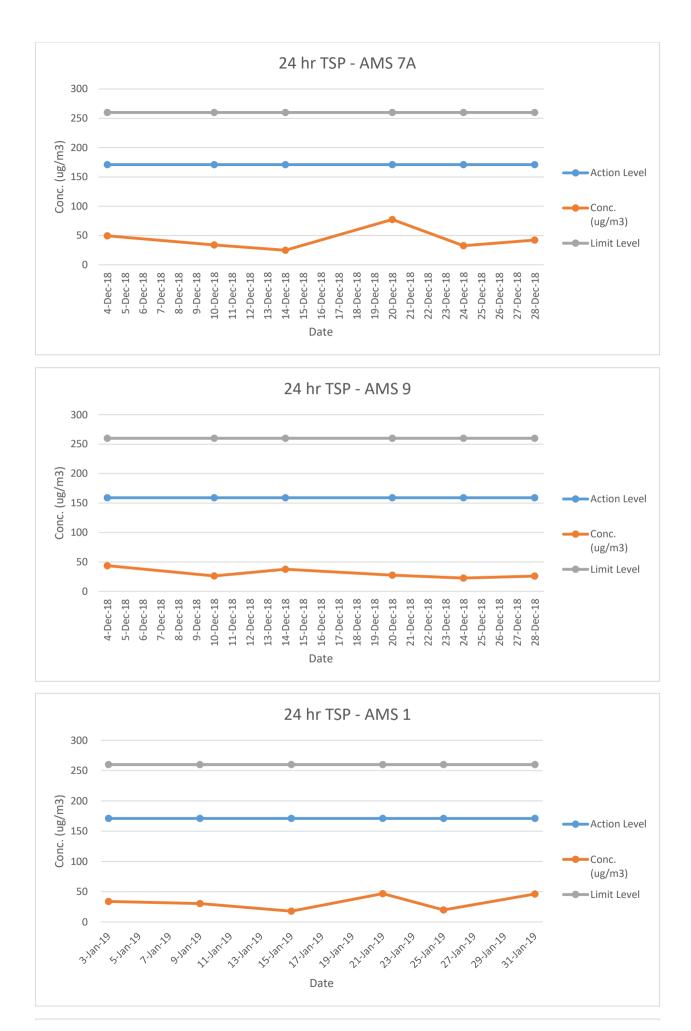
Start Date	Weather	Air Temperature	Atmospheric Pressure, Pa	Filter W	eight (g)	Particulate		/m°/r		Average flow	Total volume	-	Action Level	Limit Level
	Condition	(K)	(mmHg)	Initial	Final	weight (g)	Time(hrs)	Initial	Final	(m <sup>3</sup> /min.)	(m³)	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )	(ug/m <sup>3</sup> )
3-Jan-19	Cloudy	289.4	768	2.7579	2.8291	0.0712	24	1.6716	1.6381	1.65	2382.9194	30		
9-Jan-19	Fine	291.0	767	2.7228	2.8060	0.0832	24	1.6653	1.6381	1.65	2378.4116	35		
15-Jan-19	Cloudy	292.2	764	2.7560	2.7805	0.0245	24	1.5756	1.5557	1.57	2254.5971	11	172	260
21-Jan-19	Fine	291.0	766	2.6894	2.7492	0.0598	24	1.7485	1.7204	1.73	2497.6065	24	172	200
25-Jan-19	Fine	291.9	766	2.6631	2.7315	0.0684	24	1.6618	1.6381	1.65	2375.9050	29		
31-Jan-19	Fine	294.9	764	2.7250	2.7849	0.0599	24	1.9004	1.8850	1.89	2725.4398	22		
											Min	11		
											Max	35		
											Average	25		

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

Start Date		Air Temperature	Atmospheric Pressure, Pa	Filter W	eight (g)	Particulate		Flow (m <sup>3</sup> /r		Average flow	Total volume	0	Action Level	Limit Level
	Condition	(K)	(mmHg)	Initial	Final	weight (g)	Time(hrs)	Initial	Final	(m <sup>3</sup> /min.)	(m³)	(ug/m³)	$(ug/m^3)$	(ug/m <sup>3</sup> )
4-Feb-19	Cloudy	294.9	764	2.7549	2.8377	0.0828	24	0.82	0.81	0.82	1178.14	70		
8-Feb-19	Fine	294.9	762	2.6701	2.6882	0.0181	24	0.61	0.61	0.61	880.07	21		
14-Feb-19	Cloudy	293.6	766	2.6787	2.7234	0.0447	24	0.66	0.65	0.65	941.82	47	174	260
20-Feb-19	Fine	295.8	764	2.6367	2.6633	0.0266	24	0.61	0.61	0.61	880.09	30		
26-Feb-19	Fine	291.9	763	2.6664	2.7167	0.0503	24	0.74	0.73	0.74	1061.78	47		
											Min	21		
											Max	70		
											Average	43		

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.





#### 24-hour TSP Impact Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

AMS2 - Villa Le Parc

Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m³)
04/12/18 13:09	18	10/12/18 13:13	28	14/12/18 09:56	62
04/12/18 14:09	12	10/12/18 14:13	35	14/12/18 10:56	70
04/12/18 15:09	11	10/12/18 15:13	41	14/12/18 11:56	72
04/12/18 16:09	12	10/12/18 16:13	44	14/12/18 12:56	39
04/12/18 17:09	12	10/12/18 17:13	44	14/12/18 13:56	26
04/12/18 18:09	19	10/12/18 18:13	53	14/12/18 14:56	90
04/12/18 19:09	23	10/12/18 19:13	55	14/12/18 15:56	99
04/12/18 20:09	25	10/12/18 20:13	53	14/12/18 16:56	99
04/12/18 21:09	23	10/12/18 21:13	41	14/12/18 17:56	130
04/12/18 22:09	21	10/12/18 22:13	51	14/12/18 18:56	134
04/12/18 23:09	23	10/12/18 23:13	33	14/12/18 19:56	115
05/12/18 00:09	18	11/12/18 00:13	35	14/12/18 20:56	90
05/12/18 01:09	18	11/12/18 01:13	35	14/12/18 21:56	72
05/12/18 02:09	19	11/12/18 02:13	32	14/12/18 22:56	76
05/12/18 03:09	19	11/12/18 03:13	27	14/12/18 23:56	72
05/12/18 04:09	19	11/12/18 04:13	28	15/12/18 00:56	67
05/12/18 05:09	19	11/12/18 05:13	28	15/12/18 01:56	72
05/12/18 06:09	21	11/12/18 06:13	27	15/12/18 02:56	78
05/12/18 07:09	26	11/12/18 07:13	29	15/12/18 03:56	63
05/12/18 08:09	39	11/12/18 08:13	29	15/12/18 04:56	56
05/12/18 09:09	37	11/12/18 09:13	32	15/12/18 05:56	72
05/12/18 10:09	36	11/12/18 10:13	35	15/12/18 06:56	70
05/12/18 11:09	36	11/12/18 11:13	37	15/12/18 07:56	76
05/12/18 12:09	35	11/12/18 12:13	37	15/12/18 08:56	62
Average	23	Average	37	Average	78
Action Level	166	Action Level	166	Action Level	166
Limit Level	260	Limit Level	260	Limit Level	260
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
		Date and third	isi concentration (µg/ш)		isr concentration (µg/m)
20/12/18 10:00	65	24/12/18 09:00	65	28/12/18 09:15	55
20/12/18 10:00 20/12/18 11:00					
	65	24/12/18 09:00	65	28/12/18 09:15	55
20/12/18 11:00	65 56	24/12/18 09:00 24/12/18 10:00	65 63	28/12/18 09:15 28/12/18 10:15	55 55
20/12/18 11:00 20/12/18 12:00	65 56 58	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00	65 63 63	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15	55 55 56
20/12/18 11:00 20/12/18 12:00 20/12/18 13:00	65 56 58 58	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 11:00 24/12/18 12:00	65 63 63 56	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 11:15 28/12/18 12:15	55 55 56 58
20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00	65 56 58 58 58 56	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00	65 63 63 56 56	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15	55 55 56 58 60
20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00	65 56 58 58 58 56 62	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 14:00 24/12/18 15:00	65 63 63 56 56 55	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 28/12/18 13:15 28/12/18 14:15 28/12/18 15:15	55 55 56 58 60 60
20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 20/12/18 16:00	65 56 58 58 56 62 62 62	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 14:00	65 63 63 56 56 55 55 55	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 28/12/18 14:15	55 55 56 58 60 60 60 58
20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 20/12/18 16:00 20/12/18 17:00	65 56 58 58 56 62 62 62 60	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 13:00 24/12/18 15:00 24/12/18 15:00	65 63 63 56 56 55 55 55 55 55	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 12:15 28/12/18 13:15 28/12/18 14:15 28/12/18 15:15 28/12/18 16:15	55 55 56 58 60 60 58 60 58 60
20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 13:00 20/12/18 15:00 20/12/18 16:00 20/12/18 17:00 20/12/18 18:00 20/12/18 19:00	65 56 58 58 56 62 62 62 60 60	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 14:00 24/12/18 15:00 24/12/18 15:00 24/12/18 17:00 24/12/18 18:00	65 63 63 56 56 55 55 55 55 55 53	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 28/12/18 13:15 28/12/18 15:15 28/12/18 15:15 28/12/18 17:15 28/12/18 18:15	55 55 58 60 60 58 60 58 60 63
20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 20/12/18 16:00 20/12/18 17:00 20/12/18 18:00	65 56 58 58 56 62 62 60 60 56	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 13:00 24/12/18 14:00 24/12/18 16:00 24/12/18 17:00	65 63 63 56 56 55 55 55 55 53 53 53	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 12:15 28/12/18 13:15 28/12/18 14:15 28/12/18 16:15 28/12/18 16:15 28/12/18 17:15	55 55 58 60 60 58 60 58 60 63 63 65
20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 13:00 20/12/18 15:00 20/12/18 16:00 20/12/18 17:00 20/12/18 18:00 20/12/18 19:00 20/12/18 20:00	65 56 58 58 56 62 62 60 60 60 56 60	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 13:00 24/12/18 14:00 24/12/18 15:00 24/12/18 16:00 24/12/18 18:00 24/12/18 19:00	65 63 63 56 55 55 55 55 53 53 53 53 55	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 28/12/18 13:15 28/12/18 15:15 28/12/18 16:15 28/12/18 16:15 28/12/18 18:15 28/12/18 19:15	55 55 56 58 60 60 58 60 63 63 65 65 67
20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 20/12/18 15:00 20/12/18 16:00 20/12/18 19:00 20/12/18 20:00 20/12/18 21:00	65 56 58 58 56 62 62 60 60 60 56 60 56 60 53	24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 13:00 24/12/18 15:00 24/12/18 16:00 24/12/18 16:00 24/12/18 19:00 24/12/18 19:00 24/12/18 20:00	65 63 63 56 55 55 55 55 53 53 53 53 53 53	28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 12:15 28/12/18 13:15 28/12/18 14:15 28/12/18 16:15 28/12/18 16:15 28/12/18 17:15 28/12/18 18:15 28/12/18 19:15 28/12/18 19:15	55 55 58 60 60 60 58 60 63 63 65 67 65
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 Limit Level
 260
 Limit Level
 260

 Remark
 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
 260

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.762.

Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
4/02/19 10:40	48	08/02/19 09:56	42	14/02/19 10:57	45
/02/19 11:40	46	08/02/19 10:56	45	14/02/19 11:57	40
02/19 12:40	45	08/02/19 11:56	45	14/02/19 12:57	38
02/19 13:40	47	08/02/19 12:56	42	14/02/19 13:57	36
02/19 14:40	42	08/02/19 13:56	38	14/02/19 14:57	34
2/19 15:40	40	08/02/19 14:56	38	14/02/19 15:57	32
02/19 16:40	44	08/02/19 15:56	32	14/02/19 16:57	30
02/19 17:40	46	08/02/19 16:56	30	14/02/19 17:57	34
02/19 18:40	46	08/02/19 17:56	30	14/02/19 18:57	36
/02/19 19:40	44	08/02/19 18:56	34	14/02/19 19:57	42
/02/19 20:40	48	08/02/19 19:56	32	14/02/19 20:57	57
02/19 21:40	62	08/02/19 20:56	40	14/02/19 21:57	68
02/19 22:40	74	08/02/19 21:56	55	14/02/19 22:57	72
2/19 23:40	67	08/02/19 22:56	68	14/02/19 23:57	79
02/19 00:40	66	08/02/19 23:56	72	15/02/19 00:57	62
02/19 01:40	56	09/02/19 00:56	79	15/02/19 01:57	42
02/19 02:40	48	09/02/19 01:56	62	15/02/19 02:57	51
/02/19 03:40	47	09/02/19 02:56	40	15/02/19 03:57	51
02/19 04:40	46	09/02/19 03:56	49	15/02/19 04:57	64
/02/19 05:40	41	09/02/19 04:56	51	15/02/19 05:57	62
02/19 06:40	44	09/02/19 05:56	64	15/02/19 06:57	51
/02/19 07:40	46	09/02/19 06:56	64	15/02/19 07:57	45
02/19 08:40	42	09/02/19 07:56	60	15/02/19 08:57	43
02/19 09:40	45	09/02/19 08:56	53	15/02/19 09:57	45
	49		49		48
Average	49	Average	49	Average	40
Average tion Level	166	Average Action Level	166	Average Action Level	166
ction Level					
Action Level Limit Level	166 260	Action Level Limit Level	166 260	Action Level	166
Action Level Limit Level e and Time	166 260 TSP Concentration (µg/m³)	Action Level Limit Level Date and Time	166 260 TSP Concentration (μg/m³)	Action Level	166
Action Level Limit Level and Time 02/19 11:13	166 260 <b>TSP Concentration (μg/m³)</b> 24	Action Level Limit Level Date and Time 26/02/19 10:00	166 260 TSP Concentration (μg/m <sup>*</sup> ) 26	Action Level	166
Action Level Limit Level 22/19 11:13 22/19 12:13	166 260 TSP Concentration (µg/m³) 24 20	Action Level Limit Level Date and Time 26/02/19 10:00 26/02/19 11:00	166 260 TSP Concentration (µg/m³) 26 24	Action Level	166
Action Level Limit Level 02/19 11:13 02/19 12:13 02/19 13:13	166 260 TSP Concentration (μg/m³) 24 20 16	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00	166 260 TSP Concentration (μg/m³) 26 24 24 20	Action Level	166
Action Level Limit Level /02/19 11:13 /02/19 12:13 /02/19 13:13 /02/19 14:13	166 260 TSP Concentration (μg/m³) 24 20 16 15	Action Level Limit Level Date and Time 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00	166 260 TSP Concentration (μg/m <sup>*</sup> ) 26 24 20 15	Action Level	166
Action Level Limit Level 02/19 11:13 02/19 12:13 02/19 13:13 02/19 13:13 02/19 14:13 02/19 15:13	166 260 TSP Concentration (μg/m³) 24 20 16 15 14	Action Level Limit Level Date and Time 26/02/19 10:00 26/02/19 11:00 26/02/19 13:00 26/02/19 13:00 26/02/19 14:00	166 260 TSP Concentration (µg/m³) 26 24 24 20 15 14	Action Level	166
Action Level Limit Level 02/19 11:13 02/19 12:13 02/19 13:13 02/19 14:13 02/19 15:13 02/19 15:13	166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 14:00 26/02/19 15:00	166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16	Action Level	166
Action Level Limit Level 22/19 11:13 02/19 12:13 02/19 13:13 02/19 14:13 02/19 15:13 02/19 16:13 02/19 16:13 02/19 17:13	166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 14:00 26/02/19 15:00 26/02/19 16:00	166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15	Action Level	166
Action Level Limit Level 22/19 11:13 22/19 12:13 22/19 12:13 22/19 13:13 22/19 14:13 22/19 15:13 22/19 16:13 22/19 17:13 22/19 17:13	166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 15 14 15 14 15 14 15 14 16	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 15:00 26/02/19 16:00 26/02/19 16:00	166 260 TSP Concentration (μg/m <sup>*</sup> ) 26 24 20 15 14 16 15 14 16 15 17	Action Level	166
and Time           12/19 11:13           12/19 12:13           12/19 12:13           12/19 13:13           12/19 14:13           12/19 15:13           12/19 15:13           12/19 16:13           12/19 18:13           12/19 19:13	166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 16 16 16 16 16 16 16 16 17 16 16 16 16 16 16 16 16 16 16	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 14:00 26/02/19 15:00 26/02/19 17:00 26/02/19 17:00 26/02/19 18:00	166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 14 16 15 17 19	Action Level	166
Action Level Limit Level 22/19 11:13 22/19 12:13 22/19 13:13 22/19 13:13 22/19 13:13 22/19 15:13 22/19 16:13 22/19 17:13 22/19 17:13 22/19 19:13 22/19 20:13	166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 15 14 16 19 25	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 14:00 26/02/19 14:00 26/02/19 16:00 26/02/19 18:00 26/02/19 18:00 26/02/19 19:00	166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 17 17 19 22	Action Level	166
Action Level Limit Level 2 and Time 02/19 11:13 02/19 12:13 02/19 12:13 02/19 13:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 19:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 20:13	166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 16:00 26/02/19 19:00 26/02/19 19:00 26/02/19 19:00	166           260           TSP Concentration (μg/m³)           26           24           20           15           14           16           15           17           19           22           24	Action Level	166
and Time           2/19 11:13           2/19 12:13           2/19 12:13           2/19 13:13           2/19 14:13           2/19 15:13           2/19 16:13           2/19 16:13           2/19 17:13           2/19 19:13           2/19 19:13           2/19 19:13           2/19 19:13           2/19 19:13           2/19 20:13           2/19 22:13	166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 15:00 26/02/19 16:00 26/02/19 17:00 26/02/19 17:00 26/02/19 19:00 26/02/19 20:00 26/02/19 20:00	166 260 TSP Concentration (μg/m <sup>3</sup> ) 26 24 20 15 14 16 15 14 16 15 17 19 22 24 29	Action Level	166
Action Level Limit Level 2 and Time 02/19 11:13 02/19 12:13 02/19 13:13 02/19 14:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 16:13 02/19 17:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 21:13 02/19 21:13 02/19 21:13 02/19 23:13	166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 16 19 25 39 57 54	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 14:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 12:00 26/02/19 21:00 26/02/19 22:00	166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 14 16 15 17 19 22 24 29 39	Action Level	166
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Action Level           Limit Level           Limit Level           22/19 11:13           32/19 12:13           32/19 13:13           32/19 15:13           32/19 16:13           32/19 17:13           32/19 16:13           32/19 17:13           32/19 16:13           32/19 17:13           32/19 12:13           32/19 20:13           32/19 20:13           32/19 21:13           32/19 21:13           32/19 21:13           32/19 21:13           32/19 21:13           32/19 21:13           32/19 00:13	166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 54 42 30	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 16:00 26/02/19 17:00 26/02/19 10:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00	166 260 TSP Concentration (μg/m <sup>*</sup> ) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38	Action Level	166
Action Level Limit Level 2 and Time 02/19 11:13 02/19 12:13 02/19 12:13 02/19 13:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 19:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 22:13 02/19 22:13 02/19 02:13 02/19 02:13 02/19 02:13	166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 54 42 30 35	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 21:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 20:00 27/02/19 00:00 27/02/19 01:00	166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38 36	Action Level	166
Action Level Limit Level and Time and Time 02/19 11:13 02/19 12:13 02/19 12:13 02/19 16:13 02/19 16:13 02/19 16:13 02/19 16:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 22:13 02/19 22:13 02/19 22:13 02/19 00:13 02/19 00:13 02/19 02:13	166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 54 42 30	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 16:00 26/02/19 17:00 26/02/19 10:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00	166 260 TSP Concentration (μg/m <sup>*</sup> ) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38	Action Level	166
Action Level Limit Level 2 and Time 02/19 11:13 02/19 12:13 02/19 12:13 02/19 14:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 21:13 02/19 21:13 02/19 20:13 02/19 20:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13	166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 54 42 30 35	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 21:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 20:00 27/02/19 00:00 27/02/19 01:00	166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38 36	Action Level	166
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Action Level Limit Level 02/19 11:13 02/19 12:13 02/19 12:13 02/19 12:13 02/19 13:13 02/19 14:13 02/19 15:13 02/19 16:13 02/19 19:13 02/19 19:13 02/19 19:13 02/19 19:13 02/19 22:13 02/19 22:13 02/19 22:13 02/19 02:13 02/19 03:13 02/19 06:13 02/19 06:13 02/19 06:13	166         260         TSP Concentration (μg/m³)         24         20         16         15         14         15         14         16         19         25         39         57         54         42         30         35         27         16         15         14         15         14         15         14         16         17	Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 11:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 14:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 21:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 27/02/19 01:00 27/02/19 01:00 27/02/19 01:00 27/02/19 05:00 27/02/19 05:00 27/02/19 05:00	166           260           TSP Concentration (μg/m³)           26           24           20           15           14           16           15           17           19           22           24           29           39           42           36           35           29           28           20           17	Action Level	166
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Action Level Limit Level Comparison of the second s	166         260         TSP Concentration (μg/m³)         24         20         16         15         14         15         14         16         19         25         39         57         54         42         30         35         27         16         15         14         15         20	Action Level Limit Level 26/02/19 10:00 26/02/19 10:00 26/02/19 11:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 16:00 26/02/19 17:00 26/02/19 21:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 27/02/19 00:00 27/02/19 00:00	166         260         TSP Concentration (μg/m³)         26         24         20         15         14         16         15         14         26         24         29         39         42         29         39         42         29         38         36         35         29         28         20         17         23         27	Action Level	166
Action Level Limit Level Action Action Action Action Action Level Action Acti	166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 16 19 25 39 57 54 42 30 35 27 16 15 14 15 14 17 19 20 20 22	Action Level Limit Level 26/02/19 10:00 26/02/19 10:00 26/02/19 11:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 15:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 21:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 20:00 27/02/19 00:00 27/02/19 00:00 27/02/19 06:00 27/02/19 08:00 27/02/19 08:00 27/02/19 09:00	166 260 <b>TSP Concentration (µg/m*)</b> 26 24 20 15 14 16 15 17 19 22 24 29 39 42 29 39 42 38 36 35 29 28 20 17 28 20 17 28 20 17 28 20 17 28 20 28 20 28 20 28 20 28 20 28 20 28 20 28 20 28 20 28 29 28 20 28 20 28 20 28 29 28 20 28 29 28 29 28 29 28 20 28 29 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 20 28 29 28 20 28 20 28 20 28 20 28 20 28 20 28 29 28 20 28 20 28 20 28 29 28 20 28 20 28 29 28 20 28 29 28 29 28 20 28 29 28 29 28 29 28 20 28 20 28 29 28 20 28 29 28 20 28 29 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 20 28 29 28 20 28 20 28 20 28 29 28 29 28 20 28 20 27 28 20 28 20 28 20 27 28 20 27 28 20 27 27 27 27 27 27 27 27 27 27	Action Level	166

Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.762.

AMS3A - Wai Wah	Centre			-		
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (μg/m <sup>3</sup> )		Date and Time	TSP Concentration (µg/m <sup>3</sup> )
04/12/18 13:42	39	10/12/18 14:12	48		14/12/18 13:45	77
04/12/18 14:42	27	10/12/18 15:12	57		14/12/18 14:45	82
04/12/18 15:42	39	10/12/18 16:12	61		14/12/18 15:45	91
04/12/18 16:42	48	10/12/18 17:12	68		14/12/18 16:45	91
04/12/18 17:42	45	10/12/18 18:12	62		14/12/18 17:45	132
04/12/18 18:42	50	10/12/18 19:12	77		14/12/18 18:45	143
04/12/18 19:42	46	10/12/18 20:12	71		14/12/18 19:45	130
04/12/18 20:42	41	10/12/18 21:12	59		14/12/18 20:45	118
04/12/18 21:42	37	10/12/18 22:12	45		14/12/18 21:45	91
04/12/18 22:42	39	10/12/18 23:12	43		14/12/18 22:45	86
04/12/18 23:42	39	11/12/18 00:12	55		14/12/18 23:45	77
05/12/18 00:42	29	11/12/18 01:12	43		15/12/18 00:45	71
05/12/18 01:42	27	11/12/18 02:12	77		15/12/18 01:45	69
05/12/18 02:42	27	11/12/18 03:12	43		15/12/18 02:45	78
05/12/18 03:42	29	11/12/18 04:12	34		15/12/18 03:45	84
05/12/18 04:42	23	11/12/18 05:12	29		15/12/18 04:45	96
05/12/18 05:42	39	11/12/18 06:12	30		15/12/18 05:45	100
05/12/18 06:42	50	11/12/18 07:12	37		15/12/18 06:45	91
05/12/18 07:42	55	11/12/18 08:12	43		15/12/18 07:45	109
05/12/18 08:42	121	11/12/18 09:12	45		15/12/18 08:45	95
05/12/18 09:42	121	11/12/18 09:12	40		15/12/18 09:45	78
05/12/18 09:42	74	11/12/18 10:12	47		15/12/18 10:45	84
05/12/18 10:42	74 75	11/12/18 11:12	48 48		15/12/18 10:45	84 110
05/12/18 12:42	76	11/12/18 12:12	48		15/12/18 11:45	103
Average	49	11/12/18 13:12 Average	51		15/12/18 12:45 Average	95
Action Level	200	Action Level	200		Action Level	200
Limit Level	260	Limit Level	200	-	Limit Level	260
Liffiit Level	200	Liniit Level	200	1 1	Linnit Lever	200
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	]	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
Date and Time 20/12/18 09:30	TSP Concentration (µg/m³) 86	Date and Time 24/12/18 14:25	TSP Concentration (μg/m³) 55		Date and Time 28/12/18 11:41	TSP Concentration (µg/m³) 68
20/12/18 09:30	86	24/12/18 14:25	55		28/12/18 11:41	68
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20/12/18 09:30 20/12/18 10:30 20/12/18 11:30 20/12/18 12:30 20/12/18 12:30 20/12/18 14:30 20/12/18 16:30 20/12/18 16:30 20/12/18 17:30 20/12/18 19:30 20/12/18 20:30 20/12/18 20:30 20/12/18 21:30 20/12/18 20:30 20/12/18 20:30 21/12/18 00:30 21/12/18 00:30	86 86 87 89 87 91 86 88 84 80 80 80 80 80 80 80 80 80 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 80 80 80 80 80 80 80 80 80 80 80 80	24/12/18 14:25 24/12/18 14:25 24/12/18 15:25 24/12/18 16:25 24/12/18 17:25 24/12/18 19:25 24/12/18 19:25 24/12/18 21:25 24/12/18 21:25 24/12/18 22:25 24/12/18 23:25 25/12/18 00:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25	55 48 46 52 53 53 66 61 55 39 50 45 39 46 53 50 45 39 46 53 50 48 46 55 55 52 36 39 43 50		28/12/18 11:41 28/12/18 12:41 28/12/18 13:41 28/12/18 13:41 28/12/18 15:41 28/12/18 15:41 28/12/18 15:41 28/12/18 16:41 28/12/18 19:41 28/12/18 19:41 28/12/18 20:41 28/12/18 20:41 28/12/18 20:41 29/12/18 00:41 29/12/18 03:41 29/12/18 05:41 29/12/18 05:41 29/12/18 07:41 29/12/18 09:41 29/12/18 09:41 29/12/18 09:41 29/12/18 09:41 29/12/18 09:41	68         71         71         75         75         77         77         78         80         82         82         82         73         71         57         45         45         50         57         66         66         66         64

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.782.

Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
04/02/19 11:15	47	08/02/19 12:53	59
04/02/19 12:15	39	08/02/19 13:53	69
04/02/19 13:15	31	08/02/19 14:53	62
04/02/19 14:15	31	08/02/19 15:53	66
04/02/19 15:15	42	08/02/19 16:53	72
04/02/19 16:15	54	08/02/19 17:53	72
04/02/19 17:15	67	08/02/19 18:53	80
04/02/19 18:15	69	08/02/19 19:53	77
04/02/19 19:15	72	08/02/19 20:53	77
04/02/19 20:15	74	08/02/19 21:53	69
04/02/19 21:15	78	08/02/19 22:53	63
04/02/19 22:15	81	08/02/19 23:53	66
04/02/19 23:15	62	09/02/19 00:53	53
05/02/19 00:15	64	09/02/19 01:53	52
05/02/19 01:15	68	09/02/19 02:53	44
05/02/19 02:15	64	09/02/19 03:53	45
05/02/19 03:15	59	09/02/19 04:53	45
05/02/19 04:15	72	09/02/19 05:53	45
05/02/19 05:15	66	09/02/19 06:53	52
05/02/19 06:15	64	09/02/19 07:53	56
05/02/19 07:15	54	09/02/19 08:53	58
05/02/19 08:15	56	09/02/19 09:53	63
05/02/19 09:15	48	09/02/19 10:53	65
05/02/19 10:15	52	09/02/19 11:53	60
Average	59	Average	61
Action Level	200	Action Level	200
Limit Level	260	Limit Level	260
		-, <u> </u>	
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (μg/m <sup>3</sup>
20/02/19 10:22	82	26/02/19 11:00	55
20/02/19 11:22	78	26/02/19 12:00	56
20/02/19 12:22	71	26/02/19 13:00	56
20/02/19 13:22	65	26/02/19 14:00	56
20/02/19 14:22	57	26/02/19 15:00	59

	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
	14/02/19 11:28	56
	14/02/19 12:28	42
	14/02/19 13:28	46
	14/02/19 14:28	37
	14/02/19 15:28	31
	14/02/19 16:28	27
	14/02/19 17:28	33
	14/02/19 18:28	37
	14/02/19 19:28	41
	14/02/19 20:28	48
	14/02/19 21:28	54
	14/02/19 22:28	54
	14/02/19 23:28	52
	15/02/19 00:28	42
	15/02/19 01:28	21
	15/02/19 02:28	27
	15/02/19 03:28	27
	15/02/19 04:28	33
	15/02/19 05:28	35
	15/02/19 06:28	35
	15/02/19 07:28	39
	15/02/19 08:28	42
	15/02/19 09:28	48
	15/02/19 10:28	52
1	Average	40
	Action Level	200
1	Limit Level	260

Date and Time	TSP Concentration (µg/m³)	Date and Time	TSP Concentration (μg/m <sup>3</sup> )
20/02/19 10:22	82	26/02/19 11:00	55
20/02/19 11:22	78	26/02/19 12:00	56
20/02/19 12:22	71	26/02/19 13:00	56
20/02/19 13:22	65	26/02/19 14:00	56
20/02/19 14:22	57	26/02/19 15:00	59
20/02/19 15:22	50	26/02/19 16:00	64
20/02/19 16:22	47	26/02/19 17:00	70
20/02/19 17:22	43	26/02/19 18:00	71
20/02/19 18:22	46	26/02/19 19:00	60
20/02/19 19:22	47	26/02/19 20:00	67
20/02/19 20:22	48	26/02/19 21:00	60
20/02/19 21:22	60	26/02/19 22:00	54
20/02/19 22:22	75	26/02/19 23:00	35
20/02/19 23:22	66	27/02/19 00:00	28
21/02/19 00:22	55	27/02/19 01:00	28
21/02/19 01:22	45	27/02/19 02:00	26
21/02/19 02:22	46	27/02/19 03:00	21
21/02/19 03:22	33	27/02/19 04:00	26
21/02/19 04:22	25	27/02/19 05:00	40
21/02/19 05:22	38	27/02/19 06:00	39
21/02/19 06:22	61	27/02/19 07:00	42
21/02/19 07:22	67	27/02/19 08:00	45
21/02/19 08:22	75	27/02/19 09:00	48
21/02/19 09:22	79	27/02/19 10:00	50
Average	57	Average	48
Action Level	200	Action Level	200
Limit Level	260	Limit Level	260

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.782.

	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
03/01/19 09:30	76	09/01/19 10:00	128	15/01/19 10:00	
03/01/19 10:30	76	09/01/19 11:00	108	15/01/19 11:00	
03/01/19 11:30	76	09/01/19 12:00	108	15/01/19 12:00	
03/01/19 12:30	78	09/01/19 13:00	81	15/01/19 13:00	
03/01/19 13:30	78	09/01/19 14:00	64	15/01/19 14:00	
03/01/19 14:30	74	09/01/19 15:00	62	15/01/19 15:00	
03/01/19 15:30	76	09/01/19 16:00	70	15/01/19 16:00	
03/01/19 16:30	74	09/01/19 17:00	76	15/01/19 17:00	
03/01/19 17:30	76	09/01/19 18:00	79	15/01/19 18:00	
03/01/19 17:30	76	09/01/19 19:00	81	15/01/19 18:00	
03/01/19 18:30	74	09/01/19 19:00	94	15/01/19 19:00	
03/01/19 19:30	76	09/01/19 20:00	81	15/01/19 20:00	
03/01/19 20:30	78	09/01/19 21:00	72	15/01/19 22:00	
03/01/19 22:30	72		81		
	72 70	09/01/19 23:00	74	15/01/19 23:00	
03/01/19 23:30		10/01/19 00:00		16/01/19 00:00	
04/01/19 00:30	70	10/01/19 01:00	66	16/01/19 01:00	
04/01/19 01:30	70	10/01/19 02:00	70	16/01/19 02:00	
04/01/19 02:30	72	10/01/19 03:00	59	16/01/19 03:00	
04/01/19 03:30	74	10/01/19 04:00	66	16/01/19 04:00	
04/01/19 04:30	76	10/01/19 05:00	70	16/01/19 05:00	
04/01/19 05:30	76	10/01/19 06:00	76	16/01/19 06:00	
04/01/19 06:30	76	10/01/19 07:00	70	16/01/19 07:00	
04/01/19 07:30	78	10/01/19 08:00	70	16/01/19 08:00	
04/01/19 08:30	76	10/01/19 09:00	76	16/01/19 09:00	
Average	75	Average	78	Average	
Action Level	200 260	Action Level Limit Level	200 260	Action Level	
Limit Level	260	Limit Level	260	Limit Level	260
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
21/01/19 13:00	87	25/01/19 10:00	69	31/01/19 11:20	60
21/01/19 14:00	83	25/01/19 11:00	59	31/01/19 12:20	60
21/01/19 15:00					60
	79	25/01/19 12:00	45	31/01/19 13:20	
	79 81				62
21/01/19 16:00	81	25/01/19 12:00 25/01/19 13:00	45	31/01/19 13:20 31/01/19 14:20	62 62
21/01/19 16:00 21/01/19 17:00		25/01/19 12:00 25/01/19 13:00 25/01/19 14:00	45 40	31/01/19 13:20 31/01/19 14:20 31/01/19 15:20	62 62 64
21/01/19 16:00 21/01/19 17:00 21/01/19 18:00	81 100	25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00	45 40 30 37	31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 16:20	62 62 64 73
21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00	81 100 109	25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00	45 40 30	31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 16:20 31/01/19 17:20	62 62 64 73 82
21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00	81 100 109 92 87	25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00	45 40 30 37 52 56	31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 16:20 31/01/19 17:20 31/01/19 18:20	62 62 64 73 82 84
21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 21/01/19 21:00	81 100 109 92 87 109	25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00 25/01/19 18:00	45 40 30 37 52 56 61	31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 17:20 31/01/19 18:20 31/01/19 18:20	62 62 64 73 82 84 83
21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 21/01/19 21:00 21/01/19 22:00	81 100 109 92 87 109 105	25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00 25/01/19 19:00	45 40 30 37 52 56 61 64	31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 17:20 31/01/19 18:20 31/01/19 18:20 31/01/19 19:20	62 62 64 73 82 84 83 83 82
21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 21/01/19 21:00 21/01/19 22:00 21/01/19 23:00	81 100 109 92 87 109 105 100	25/01/19 12:00 25/01/19 13:00 25/01/19 15:00 25/01/19 16:00 25/01/19 16:00 25/01/19 17:00 25/01/19 18:00 25/01/19 19:00 25/01/19 20:00	45 40 30 37 52 56 61 64 69	31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 15:20 31/01/19 18:20 31/01/19 19:20 31/01/19 20:20 31/01/19 20:20	62 64 73 82 84 83 82 84 83
21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 21/01/19 21:00 21/01/19 22:00 21/01/19 23:00 22/01/19 00:00	81 100 109 92 87 109 105 100 83	25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00 25/01/19 17:00 25/01/19 19:00 25/01/19 20:00 25/01/19 21:00	45 40 30 52 56 61 64 69 73	31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 16:20 31/01/19 17:20 31/01/19 17:20 31/01/19 19:20 31/01/19 20:20 31/01/19 21:20 31/01/19 22:20	62 62 64 73 82 84 83 82 84 78
21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 20:00 21/01/19 20:00 21/01/19 22:00 21/01/19 23:00 22/01/19 00:00 22/01/19 01:00	81 100 109 92 87 109 105 100 83 79	25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00 25/01/19 18:00 25/01/19 19:00 25/01/19 20:00 25/01/19 21:00 25/01/19 22:00	45 40 30 37 52 56 61 64 69 73 80	31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 16:20 31/01/19 17:20 31/01/19 19:20 31/01/19 20:20 31/01/19 21:20 31/01/19 22:20	62 62 64 73 82 84 83 82 84 78 75
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2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.772.

Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
03/01/19 10:00	77	09/01/19 11:00	57	15/01/19 10:30	62
03/01/19 11:00	77	09/01/19 12:00	63	15/01/19 11:30	62
03/01/19 12:00	76	09/01/19 13:00	67	15/01/19 12:30	63
3/01/19 13:00	76	09/01/19 14:00	78	15/01/19 13:30	66
03/01/19 14:00	79	09/01/19 15:00	81	15/01/19 14:30	67
3/01/19 15:00	77	09/01/19 16:00	69	15/01/19 15:30	67
3/01/19 16:00	76	09/01/19 17:00	67	15/01/19 16:30	69
3/01/19 17:00	79	09/01/19 18:00	76	15/01/19 17:30	71
	79 81	09/01/19 18:00	96		71 73
3/01/19 18:00				15/01/19 18:30	
03/01/19 19:00	81	09/01/19 20:00	104	15/01/19 19:30	76
03/01/19 20:00	77	09/01/19 21:00	76	15/01/19 20:30	74
03/01/19 21:00	77	09/01/19 22:00	74	15/01/19 21:30	73
03/01/19 22:00	74	09/01/19 23:00	70	15/01/19 22:30	67
03/01/19 23:00	74	10/01/19 00:00	61	15/01/19 23:30	66
04/01/19 00:00	72	10/01/19 01:00	65	16/01/19 00:30	64
04/01/19 01:00	76	10/01/19 02:00	80	16/01/19 01:30	64
04/01/19 02:00	74	10/01/19 03:00	83	16/01/19 02:30	59
04/01/19 03:00	76	10/01/19 04:00	94	16/01/19 03:30	57
04/01/19 04:00	77	10/01/19 05:00	81	16/01/19 04:30	56
04/01/19 05:00	77	10/01/19 06:00	78	16/01/19 05:30	56
04/01/19 06:00	79	10/01/19 07:00	70	16/01/19 06:30	60
04/01/19 07:00	81	10/01/19 08:00	69	16/01/19 07:30	64
04/01/19 07:00	76	10/01/19 09:00	65	16/01/19 08:30	66
04/01/19 09:00	<u>81</u> 77	10/01/19 10:00	69 75	16/01/19 09:30	63
Average		Average		Average	65
Action Level	168	Action Level	168	Action Level	168
Limit Level	260	Limit Level	260	Limit Level	260
Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
21/01/19 11:00	72	25/01/19 12:17		31/01/19 09:30	
21/01/19 12:00			49	31/01/19/09:30	57
<t10t1ta t5:00<="" td=""><td></td><td></td><td>49 33</td><td></td><td>57 62</td></t10t1ta>			49 33		57 62
	72	25/01/19 13:17	33	31/01/19 10:30	62
21/01/19 13:00	72 83	25/01/19 13:17 25/01/19 14:17	33 27	31/01/19 10:30 31/01/19 11:30	62 65
21/01/19 13:00 21/01/19 14:00	72 83 98	25/01/19 13:17 25/01/19 14:17 25/01/19 15:17	33 27 23	31/01/19 10:30 31/01/19 11:30 31/01/19 12:30	62 65 68
21/01/19 13:00 21/01/19 14:00 21/01/19 15:00	72 83 98 83	25/01/19 13:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17	33 27 23 35	31/01/19 10:30 31/01/19 11:30 31/01/19 12:30 31/01/19 13:30	62 65 68 66
21/01/19 13:00 21/01/19 14:00 21/01/19 15:00 21/01/19 16:00	72 83 98 83 83	25/01/19 13:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17 25/01/19 17:17	33 27 23 35 48	31/01/19 10:30 31/01/19 11:30 31/01/19 12:30 31/01/19 13:30 31/01/19 14:30	62 65 68 66 69
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Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.793.

Date and Time	TSP Concentration (µg/m <sup>3</sup> )
04/02/19 11:40	48
04/02/19 12:40	42
04/02/19 13:40	46
04/02/19 14:40	44
04/02/19 15:40	46
04/02/19 16:40	48
04/02/19 17:40	56
04/02/19 18:40	54
04/02/19 19:40	56
04/02/19 20:40	61
04/02/19 21:40	65
04/02/19 22:40	58
04/02/19 23:40	56
05/02/19 00:40	51
05/02/19 01:40	44
05/02/19 02:40	41
05/02/19 03:40	38
05/02/19 04:40	42
05/02/19 05:40	46
05/02/19 06:40	41
05/02/19 07:40	38
05/02/19 08:40	41
05/02/19 09:40	42
05/02/19 10:40	48
Average	48
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (µg/m <sup>3</sup> )
08/02/19 10:11	49
08/02/19 11:11	52
08/02/19 12:11	53
08/02/19 13:11	57
08/02/19 14:11	56
08/02/19 15:11	55
08/02/19 16:11	49
08/02/19 17:11	56
08/02/19 18:11	54
08/02/19 19:11	52
08/02/19 20:11	56
08/02/19 21:11	51
08/02/19 22:11	58
08/02/19 23:11	58
09/02/19 00:11	55
09/02/19 01:11	50
09/02/19 02:11	48
09/02/19 03:11	46
09/02/19 04:11	46
09/02/19 05:11	44
09/02/19 06:11	46
09/02/19 07:11	45
09/02/19 08:11	45
09/02/19 09:11	44
Average	51
Action Level	174
Limit Level	260

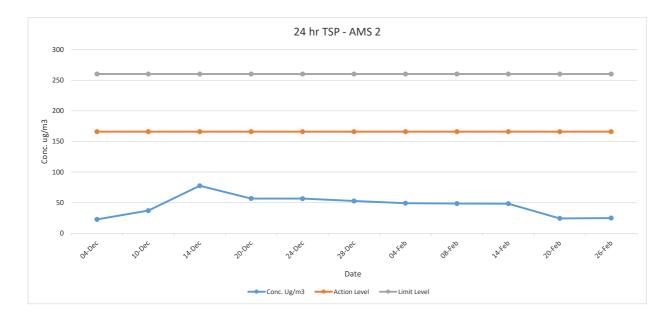
Date and Time	TSP Concentration (μg/m <sup>3</sup> )
14/02/19 10:14	52
14/02/19 11:14	54
14/02/19 12:14	56
14/02/19 13:14	56
14/02/19 14:14	56
14/02/19 15:14	54
14/02/19 16:14	58
14/02/19 17:14	62
14/02/19 18:14	58
14/02/19 19:14	62
14/02/19 20:14	64
14/02/19 21:14	54
14/02/19 22:14	52
14/02/19 23:14	48
15/02/19 00:14	50
15/02/19 01:14	46
15/02/19 02:14	42
15/02/19 03:14	46
15/02/19 04:14	44
15/02/19 05:14	48
15/02/19 06:14	50
15/02/19 07:14	52
15/02/19 08:14	54
15/02/19 09:14	54
Average	53
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (µg/m³)	Date and Time	TSP Concentration (µg/m <sup>3</sup> )
20/02/19 11:52	41	26/02/19 12:17	66
20/02/19 12:52	26	26/02/19 13:17	57
20/02/19 13:52	23	26/02/19 14:17	59
20/02/19 14:52	23	26/02/19 15:17	64
20/02/19 15:52	24	26/02/19 16:17	65
20/02/19 16:52	25	26/02/19 17:17	73
20/02/19 17:52	36	26/02/19 18:17	78
20/02/19 18:52	44	26/02/19 19:17	86
20/02/19 19:52	52	26/02/19 20:17	84
20/02/19 20:52	65	26/02/19 21:17	79
20/02/19 21:52	85	26/02/19 22:17	84
20/02/19 22:52	78	26/02/19 23:17	77
20/02/19 23:52	58	27/02/19 00:17	53
21/02/19 00:52	54	27/02/19 01:17	50
21/02/19 01:52	45	27/02/19 02:17	48
21/02/19 02:52	40	27/02/19 03:17	47
21/02/19 03:52	33	27/02/19 04:17	42
21/02/19 04:52	31	27/02/19 05:17	49
21/02/19 05:52	26	27/02/19 06:17	44
21/02/19 06:52	27	27/02/19 07:17	48
21/02/19 07:52	39	27/02/19 08:17	53
21/02/19 08:52	40	27/02/19 09:17	56
21/02/19 09:52	42	27/02/19 10:17	60
21/02/19 10:52	41	27/02/19 11:17	62
Average	42	Average	62
Action Level	174	Action Level	174
Limit Level	260	Limit Level	260

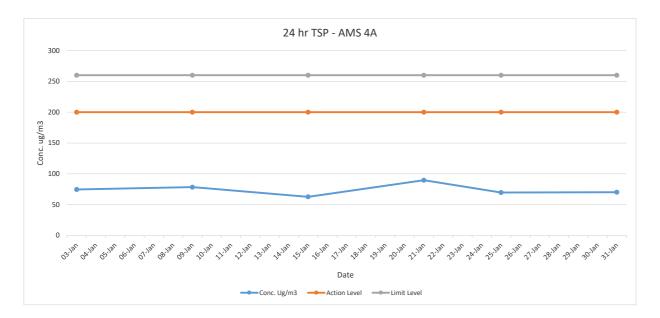
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.749.











# Impact Noise Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

#### NMS 1 Scenery Court

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	s		(m/s)
05-Dec-18	10:04	63.5	62.5	64.5		63.5	Cloudy	0.9
11-Dec-18	11:11	64.4	63.0	66.0		64.4	Fine	0.8
15-Dec-18	08:30	63.3	62.0	64.5		63.3	Fine	0.6
21-Dec-18	09:00	61.5	59.5	63.0		61.5	Fine	1.1
28-Dec-18	09:00	69.7	69.0	71.0		69.7	Fine	0.8
03-Jan-19	10:15	72.3	69.0	74.0		72.3	Fine	1.1
09-Jan-19	08:30	65.5	64.0	67.5		65.5	Fine	0.2
15-Jan-19	09:30	68.0	66.5	70.5	75	68.0	Cloudy	1.0
21-Jan-19	15:56	65.0	62.0	66.0	75	65.0	Fine	1.4
28-Jan-19	12:05	63.1	60.5	64.0		63.1	Fine	0.6
01-Feb-19	08:30	68.2	62.5	71.0		68.2	Fine	1.2
08-Feb-19	09:00	68.4	65.0	71.0		68.4	Fine	0.8
14-Feb-19	09:00	67.6	64.0	70.5	]	67.6	Fine	1.6
20-Feb-19	08:30	66.8	61.0	69.0		66.8	Fine	1.3
26-Feb-19	08:00	66.3	64.5	69.0	1	66.3	Sunny	1.7

### NMS 2 Villa Le Parc

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Date Start Time Leq L90	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed	
				Unit	:: dB(A) 30 Min	IS		(m/s)
04-Dec-18	12:57	58.2	52.5	59.0		58.2	Sunny	1.2
10-Dec-18	11:00	55.0	52.5	57.2		55.0	Sunny	2.1
14-Dec-18	09:00	56.0	51.0	57.5		56.0	Fine	1.3
20-Dec-18	10:26	56.0	51.3	57.0		56.0	Fine	0.4
27-Dec-18	14:30	61.0	54.5	62.0		61.0	Fine	0.6
03-Jan-19	09:30	61.0	54.5	63.0		61.0	Fine	0.8
09-Jan-19	14:00	54.0	51.5	57.0		54.0	Fine	0.3
15-Jan-19	10:05	60.5	54.5	62.0	75	60.5	Cloudy	1.1
21-Jan-19	16:38	56.4	52.0	58.0		56.4	Fine	0.2
28-Jan-19	10:37	57.5	51.0	60.5		57.5	Fine	0.9
01-Feb-19	13:00	58.5	51.5	60.0		58.5	Fine	1.2
08-Feb-19	09:45	59.5	53.5	61.0		59.5	Fine	1.2
14-Feb-19	14:15	58.7	51.5	60.0		58.7	Fine	1.1
20-Feb-19	13:00	58.0	52.5	59.5		58.0	Fine	1.1
26-Feb-19	13:00	59.5	51.0	60.5		59.5	Sunny	1.4

#### NMS 3 Hilton Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Date Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Min	IS		(m/s)
04-Dec-18	14:15	67.2	65.0	69.0		67.2	Sunny	1.0
10-Dec-18	13:00	68.0	65.5	70.0		68.0	Sunny	1.9
14-Dec-18	09:40	64.7	61.5	67.0		64.7	Fine	1.3
20-Dec-18	11:11	65.9	63.0	68.0		65.9	Fine	0.4
27-Dec-18	09:05	66.4	63.5	68.5		66.4	Fine	0.5
03-Jan-19	10:50	63.0	62.5	66.0		63.0	Fine	0.0
09-Jan-19	09:15	64.4	62.5	66.0		64.4	Fine	0.3
15-Jan-19	10:40	63.0	61.0	66.5	75	63.0	Cloudy	1.2
21-Jan-19	15:04	67.4	63.8	70.4		67.4	Fine	0.8
28-Jan-19	12:00	65.3	62.5	67.5		65.3	Fine	0.5
01-Feb-19	09:10	70.2	63.0	72.0		70.2	Fine	1.2
08-Feb-19	13:40	68.5	65.5	71.0		68.5	Fine	0.8
14-Feb-19	09:40	66.8	64.5	69.5		66.8	Fine	1.2
20-Feb-19	09:05	66.2	60.0	69.5		66.2	Fine	1.4
26-Feb-19	08:35	64.0	61.5	66.5		64.0	Sunny	1.2

#### NMS 4 Tin Liu

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	s		(m/s)
05-Dec-18	10:07	66.0	63.0	70.5		66.0	Cloudy	1.0
11-Dec-18	08:00	64.1	57.5	68.0		64.1	Fine	1.4
15-Dec-18	09:20	65.1	61.0	66.5		65.1	Fine	0.5
21-Dec-18	09:40	61.0	59.0	63.5		61.0	Fine	0.8
28-Dec-18	09:40	66.0	59.5	70.0		66.0	Fine	1.1
03-Jan-19	11:35	64.0	59.5	67.0		64.0	Fine	1.1
09-Jan-19	14:45	66.9	63.5	68.5		66.9	Fine	0.3
15-Jan-19	11:20	64.0	59.0	68.0	75	64.0	Cloudy	1.4
21-Jan-19	12:54	66.3	62.0	69.5	75	66.3	Fine	0.3
28-Jan-19	09:30	66.8	61.5	70.0		66.8	Fine	0.5
01-Feb-19	11:35	71.6	66.5	73.0		71.6	Fine	1.4
08-Feb-19	10:20	71.6	67.5	74.0		71.6	Fine	1.1
14-Feb-19	13:35	71.4	67.5	73.0		71.4	Fine	1.6
20-Feb-19	11:55	71.4	66.0	73.0		71.4	Fine	1.4
26-Feb-19	11:35	71.4	62.0	73.0		71.4	Sunny	1.4

### NMS 5A Wai Wah Centre

Date		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	t: dB(A) 30 Min	S		(m/s)
04-Dec-18	13:10	75.6	70.5	78.0		71.1*	Sunny	1.2
10-Dec-18	13:35	75.6	71.5	78.0		71.1*	Sunny	1.6
14-Dec-18	09:00	73.5	68.5	75.5		73.5	Fine	1.1
20-Dec-18	13:00	75.0	71.0	78.0		75.0	Fine	1.0
27-Dec-18	15:10	73.5	69.0	76.0		73.5	Fine	1.0
03-Jan-19	14:00	72.3	68.0	75.5		72.3	Fine	1.1
09-Jan-19	10:00	76.6	71.5	78.5		73.5*	Fine	0.2
15-Jan-19	13:00	70.5	66.5	73.0	75	70.5	Cloudy	1.2
21-Jan-19	13:33	75.3	69.5	78.0	75	70.2*	Fine	0.6
28-Jan-19	10:58	75.0	70.5	78.0		75.0	Fine	0.7
01-Feb-19	09:45	69.2	64.0	73.0		69.2	Fine	1.3
08-Feb-19	13:00	73.1	69.0	73.5		73.1	Fine	1.3
14-Feb-19	10:20	72.6	67.5	73.5		72.6	Fine	1.1
20-Feb-19	09:40	68.0	66.5	71.0		68.0	Fine	1.1
26-Feb-19	09:10	73.4	68.0	76.0	1	73.4	Sunny	1.4

 20-rec-19
 09.10
 73.4
 06.0
 76.0
 73.4
 Stimp
 1.4

 \*Note: Since the measured noise level was greater than the limit level, construction noise level (CNL) was appplied on 4/12/2018, 10/12/2018, 9/1/2019 and 21/1/2019, where Calculated CNL = Measured Noise Level during operation – Baseline (73.7 dB(A)).

### NMS 6A Wai Wah Centre

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Min	IS		(m/s)
04-Dec-18	13:13	74.1	70.5	76.0		74.1	Sunny	1.0
10-Dec-18	14:10	74.0	71.5	78.0		74.0	Sunny	1.8
14-Dec-18	09:35	71.5	66.0	72.5		71.5	Fine	1.1
20-Dec-18	13:30	74.0	70.5	77.5		74.0	Fine	1.0
27-Dec-18	15:45	73.0	69.5	75.0		73.0	Fine	1.1
03-Jan-19	14:40	71.4	67.5	74.0		71.4	Fine	1.2
09-Jan-19	10:37	73.4	69.5	75.5		73.4	Fine	0.3
15-Jan-19	13:35	72.0	69.0	74.5	75	72.0	Cloudy	0.0
21-Jan-19	14:15	73.0	69.0	75.5	75	73.0	Fine	0.8
28-Jan-19	11:49	73.3	68.5	75.5		73.3	Fine	0.7
01-Feb-19	10:20	68.5	63.0	72.0		68.5	Fine	0.8
08-Feb-19	11:35	72.4	68.0	74.5		72.4	Fine	1.2
14-Feb-19	10:55	71.2	66.5	73.0		71.2	Fine	1.4
20-Feb-19	10:15	67.4	65.5	69.5		67.4	Fine	1.4
26-Feb-19	09:45	72.5	67.5	76.0		72.5	Sunny	1.2

#### NMS 7 Tin Liu

		Meas	ured Noise	Level	Limit Level	Construction Noise Level	Weather	Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level		Speed
				Uni	t: dB(A) 30 Min	IS		(m/s)
05-Dec-18	10:38	66.3	64.0	67.5		66.3	Cloudy	1.2
11-Dec-18	08:10	74.0	68.0	76.0		74.0	Fine	1.4
15-Dec-18	10:00	63.8	61.5	65.0		63.8	Fine	0.4
21-Dec-18	10:15	74.1	69.0	76.0		74.1	Fine	0.5
28-Dec-18	10:15	74.0	69.0	76.5		74.0	Fine	1.2
03-Jan-19	12:10	73.0	68.5	76.0		73.0	Fine	1.2
09-Jan-19	15:25	64.1	62.5	66.5		64.1	Fine	0.2
15-Jan-19	11:55	71.0	66.5	73.0	75	71.0	Cloudy	1.1
21-Jan-19	12:19	64.7	62.0	66.0	15	64.7	Fine	0.4
28-Jan-19	09:45	65.7	62.5	66.0		65.7	Fine	0.5
01-Feb-19	11:00	74.2	69.0	77.0		74.2	Fine	1.2
08-Feb-19	10:55	73.5	68.0	76.0		73.5	Fine	1.2
14-Feb-19	13:00	74.1	69.5	77.5	]	74.1	Fine	1.4
20-Feb-19	11:20	73.2	69.5	77.0	]	73.2	Fine	1.1
26-Feb-19	11:00	74.2	65.5	78.0	]	74.2	Sunny	1.1

#### NMS 8 Shatin Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linin Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	s		(m/s)
05-Dec-18	11:02	67.4	66.5	68.5		67.4	Cloudy	1.1
11-Dec-18	15:17	65.0	63.5	67.5		65.0	Fine	1.0
15-Dec-18	12:23	65.5	63.0	68.0		65.5	Fine	1.2
21-Dec-18	10:50	69.0	66.5	72.0		69.0	Fine	0.8
28-Dec-18	10:55	73.0	71.5	73.5		73.0	Fine	0.8
04-Jan-19	08:31	69.9	67.5	73.0		69.9	Cloudy	0.9
10-Jan-19	11:45	70.2	67.8	73.4	75	70.2	Fine	0.8
16-Jan-19	15:13	72.0	70.5	74.0	75	72.0	Cloudy	1.2
22-Jan-19	14:30	67.2	64.0	70.0		67.2	Fine	1.2
29-Jan-19	09:39	65.6	64.0	67.0		65.6	Fine	0.6
04-Feb-19	09:02	65.5	63.0	67.0		65.5	Fine	0.5
11-Feb-19	09:44	65.8	64.5	67.0		65.8	Fine	0.4
18-Feb-19	08:30	68.6	64.5	71.0		68.6	Fine	1.2
25-Feb-19	09:38	64.6	63.0	66.0	]	64.6	Fine	0.2

### NMS 9 Lek Yuen Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Min	S		(m/s)
05-Dec-18	11:50	63.3	60.5	65.5		63.3	Cloudy	1.1
11-Dec-18	09:45	63.0	58.5	65.0		63.0	Fine	1.3
15-Dec-18	08:31	61.8	59.0	63.5		61.8	Fine	0.5
21-Dec-18	08:32	61.7	59.0	63.5		61.7	Fine	0.5
28-Dec-18	08:30	62.4	58.5	65.0		62.4	Fine	0.7
04-Jan-19	12:31	62.5	58.3	65.1		62.5	Cloudy	0.7
10-Jan-19	11:12	67.0	59.5	72.0	75	67.0	Fine	0.8
16-Jan-19	09:30	70.6	68.5	74.0	75	70.6	Cloudy	1.2
22-Jan-19	09:00	70.6	66.0	73.0		70.6	Fine	1.2
29-Jan-19	10:42	63.0	61.0	64.5		63.0	Fine	0.6
04-Feb-19	09:38	64.1	58.5	65.5		64.1	Fine	0.0
11-Feb-19	10:37	64.0	62.0	65.0		64.0	Fine	0.3
18-Feb-19	09:45	68.2	62.0	70.5		68.2	Fine	1.4
25-Feb-19	11:05	62.3	61.0	65.0		62.3	Fine	0.3

#### NMS 10A Shatin Tsung Tsin School

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	IS		(m/s)
04-Dec-18	10:16	65.7	62.5	67.0		65.7	Sunny	0.5
10-Dec-18	09:00	58.8	55.0	61.0		58.8	Sunny	2.0
14-Dec-18	14:00	64.3	62.5	65.5		64.3	Fine	1.2
20-Dec-18	09:00	64.4	62.0	66.0		64.4	Fine	1.2
27-Dec-18	15:20	63.5	58.0	67.0		63.5	Fine	0.6
04-Jan-19	08:31	65.4	62.5	67.5		65.4	Cloudy	0.1
10-Jan-19	08:32	66.8	64.0	68.5		66.8	Fine	0.5
16-Jan-19	10:05	64.7	59.0	66.0	70	64.7	Cloudy	0.8
22-Jan-19	09:35	63.8	58.0	66.0		63.8	Fine	0.8
29-Jan-19	11:40	64.1	62.0	65.5		64.1	Fine	0.5
04-Feb-19	10:12	63.8	60.0	66.5		63.8	Fine	0.0
11-Feb-19	11:14	65.2	60.5	68.0		65.2	Fine	0.4
18-Feb-19	10:20	66.4	61.0	68.5		66.4	Fine	1.4
25-Feb-19	11:50	64.9	63.0	65.0	]	64.9	Fine	0.3

### NMS 11 Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	s		(m/s)
04-Dec-18	15:52	64.4	53.0	64.5		64.4	Sunny	1.2
10-Dec-18	10:06	65.0	63.0	65.5		65.0	Sunny	1.4
14-Dec-18	10:15	71.1	61.5	73.0		71.1	Fine	1.6
20-Dec-18	09:38	65.1	57.5	66.5		65.1	Fine	0.7
27-Dec-18	08:30	60.2	54.0	63.5		60.2	Fine	1.1
04-Jan-19	10:26	63.4	57.6	67.5		63.4	Cloudy	0.6
10-Jan-19	09:04	66.3	64.5	68.0		66.3	Fine	0.5
16-Jan-19	09:05	65.7	64.0	67.5	75	65.7	Cloudy	0.3
22-Jan-19	10:10	69.5	63.0	72.5		69.5	Fine	1.2
29-Jan-19	09:34	66.2	62.0	69.5		66.2	Fine	0.6
04-Feb-19	09:05	57.9	52.0	61.0		57.9	Fine	0.0
11-Feb-19	12:53	60.6	52.5	62.0		60.6	Fine	0.2
18-Feb-19	16:05	68.4	63.5	71.0	]	68.4	Fine	1.2
25-Feb-19	15:08	61.0	53.0	61.5	]	61.0	Fine	0.1

### NMS 12 SKH Holy Spirit Primary School

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Constituction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	S		(m/s)
04-Dec-18	10:54	66.9	60.0	69.0		66.9	Sunny	1.0
10-Dec-18	09:00	58.0	55.0	60.0		58.0	Sunny	2.0
14-Dec-18	10:15	62.3	60.0	64.0	70	62.3	Fine	0.8
20-Dec-18	09:45	63.9	60.5	65.0		63.9	Fine	1.2
27-Dec-18	10:07	61.9	53.0	63.0		61.9	Fine	0.4
04-Jan-19	09:09	64.8	62.0	66.5	65	64.8	Cloudy	0.1
10-Jan-19	09:13	65.6	61.5	68.0		65.6	Fine	0.7
16-Jan-19	10:45	63.9	57.5	66.0	70	63.9	Cloudy	1.2
22-Jan-19	10:45	64.5	59.0	66.0	70	64.5	Fine	1.1
29-Jan-19	13:20	61.0	58.5	62.5		61.0	Fine	0.5
04-Feb-19	10:48	62.9	59.0	65.0		62.9	Fine	0.3
11-Feb-19	13:21	59.0	56.0	61.5		59.0	Fine	0.2
18-Feb-19	10:55	64.1	58.0	65.5		64.1	Fine	1.1
25-Feb-19	12:37	62.3	59.0	63.0		62.3	Fine	0.2

Note: According to the school schedule, there was an exam period from 4/1/2019 to 9/1/2019.

#### NMS 13 Lek Yuen Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Constituction Noise Level	Weather	Speed
				Unit	t: dB(A) 30 Min	S		(m/s)
05-Dec-18	15:28	62.9	60.0	65.0		62.9	Cloudy	1.0
11-Dec-18	08:55	64.7	56.5	67.0		64.7	Fine	1.4
15-Dec-18	09:10	60.5	56.5	63.0		60.5	Fine	1.2
21-Dec-18	09:10	59.5	55.0	60.2		59.5	Fine	0.4
28-Dec-18	09:02	59.0	56.5	60.5		59.0	Fine	0.8
04-Jan-19	11:47	59.3	56.4	61.0		59.3	Cloudy	0.2
10-Jan-19	10:36	64.6	61.0	66.0		64.6	Fine	0.7
16-Jan-19	11:20	68.5	64.0	71.0	75	68.5	Cloudy	1.1
22-Jan-19	11:20	67.6	65.0	69.5		67.6	Fine	1.3
29-Jan-19	14:23	61.1	58.0	63.5		61.1	Fine	0.6
04-Feb-19	11:26	58.7	56.0	59.5		58.7	Fine	0.6
11-Feb-19	14:18	60.5	55.2	68.0		60.5	Fine	0.2
18-Feb-19	11:30	65.5	59.0	67.0	]	65.5	Fine	1.2
25-Feb-19	12:37	62.3	59.0	63.0		62.3	Fine	0.2

### NMS 14 Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linin Level	Construction Noise Level	Weather	Speed
				Unit	t: dB(A) 30 Min	IS		(m/s)
04-Dec-18	16:26	66.8	60.0	69.0		66.8	Sunny	1.1
10-Dec-18	10:46	67.2	62.0	69.5		67.2	Sunny	1.4
14-Dec-18	09:15	70.9	67.0	73.5		70.9	Fine	1.1
20-Dec-18	10:15	63.7	58.0	66.0		63.7	Fine	0.5
27-Dec-18	09:07	63.1	57.5	67.5		63.1	Fine	0.8
04-Jan-19	11:01	60.4	53.8	62.7		60.4	Cloudy	0.6
10-Jan-19	09:40	64.0	58.0	66.0		64.0	Fine	0.7
16-Jan-19	09:40	66.5	63.5	68.0	75	66.5	Cloudy	0.0
22-Jan-19	11:55	70.5	64.5	74.0		70.5	Fine	1.1
29-Jan-19	10:22	71.4	62.5	74.5		71.4	Fine	0.5
04-Feb-19	09:40	60.1	56.0	62.0		60.1	Fine	0.0
11-Feb-19	12:18	60.4	56.5	62.0	1	60.4	Fine	0.2
18-Feb-19	15:30	66.7	59.0	69.0	1	66.7	Fine	1.1
25-Feb-19	15:51	61.0	57.0	62.5		61.0	Fine	0.0

### NMS 15 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	IS		(m/s)
04-Dec-18	15:55	64.3	57.5	66.0		64.3	Sunny	1.0
10-Dec-18	10:40	67.7	62.5	72.0		67.7	Sunny	1.3
14-Dec-18	11:00	67.6	64.0	65.5		67.6	Fine	1.0
20-Dec-18	10:51	61.6	57.2	63.7		61.6	Fine	1.0
27-Dec-18	09:42	68.1	62.0	72.0		68.1	Fine	0.7
03-Jan-19	15:15	66.5	64.0	68.0		66.5	Fine	0.8
09-Jan-19	08:30	67.5	63.5	70.5		67.5	Fine	0.3
15-Jan-19	00:00	68.5	66.0	71.0	75	68.5	Cloudy	1.1
21-Jan-19	09:30	66.8	62.0	69.5		66.8	Fine	0.5
28-Jan-19	13:30	64.4	62.0	65.0		64.4	Fine	0.4
01-Feb-19	14:55	66.5	61.0	68.0		66.5	Fine	1.6
08-Feb-19	09:30	63.9	59.5	66.0		63.9	Fine	1.1
14-Feb-19	16:55	67.4	62.0	69.0	]	67.4	Fine	0.0
20-Feb-19	15:40	65.8	60.5	67.5	1	65.8	Fine	1.4
26-Feb-19	15:55	66.4	59.5	68.0		66.4	Sunny	1.5

#### NMS 16 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linin Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	IS		(m/s)
04-Dec-18	16:57	63.5	59.0	66.5		63.5	Sunny	1.0
10-Dec-18	10:42	61.2	55.0	63.0		61.2	Sunny	1.2
14-Dec-18	11:40	66.7	62.5	67.5		66.7	Fine	1.1
20-Dec-18	11:27	62.6	58.5	65.0		62.6	Fine	0.8
27-Dec-18	10:17	64.6	60.5	67.5		64.6	Fine	0.7
03-Jan-19	15:30	67.0	63.5	71.0		67.0	Fine	1.1
09-Jan-19	09:09	65.5	62.5	67.0		65.5	Fine	0.3
15-Jan-19	10:40	68.0	67.5	72.0	75	68.0	Cloudy	1.2
21-Jan-19	10:05	66.5	62.1	68.0	15	66.5	Fine	0.6
28-Jan-19	13:27	64.9	61.0	67.0		64.9	Fine	0.5
01-Feb-19	15:30	67.4	61.5	68.5		67.4	Fine	0.9
08-Feb-19	10:05	62.4	51.0	65.0		62.4	Fine	1.4
14-Feb-19	16:20	66.5	61.5	68.0		66.5	Fine	0.0
20-Feb-19	15:05	66.5	61.0	68.0		66.5	Fine	1.2
26-Feb-19	15:20	64.8	61.5	66.5		64.8	Sunny	1.6

### NMS 17 Shatin Pui Ying College

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
			-	Uni	t: dB(A) 30 Min	IS		(m/s)
04-Dec-18	11:12	63.2	60.5	64.5		63.2	Sunny	1.1
10-Dec-18	09:45	69.0	67.0	70.5		69.0	Sunny	1.6
14-Dec-18	10:00	68.9	66.5	70.5	70	68.9	Fine	1.0
20-Dec-18	10:40	62.0	59.5	64.0	70	62.0	Fine	1.1
27-Dec-18	11:30	63.4	51.0	66.0		63.4	Fine	0.6
04-Jan-19	09:50	65.1	62.5	67.0		65.1	Cloudy	0.1
10-Jan-19	09:58	64.6	63.1	68.4		64.6	Fine	0.0
16-Jan-19	13:00	64.5	59.0	67.5	65	64.5	Cloudy	1.1
22-Jan-19	10:00	62.3	59.0	63.0		62.3	Fine	1.0
29-Jan-19	13:27	59.5	56.0	61.0		59.5	Fine	0.4
04-Feb-19	10:53	63.3	60.0	65.5		63.3	Fine	0.4
11-Feb-19	10:30	59.9	58.0	61.5	70	59.9	Fine	0.3
18-Feb-19	13:40	63.2	55.5	64.5	]	63.2	Fine	1.6
25-Feb-19	17:05	60.0	59.5	62.0		60.0	Fine	0.1

Note: According to the school schedule, there was an exam period from 9/1/2019 to 23/1/2019.

### NMS 18 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	IS		(m/s)
05-Dec-18	14:51	60.9	56.0	63.5		60.9	Cloudy	1.2
11-Dec-18	12:20	69.6	64.5	71.5		69.6	Fine	1.2
15-Dec-18	11:42	58.6	53.0	60.5		58.6	Fine	0.5
21-Dec-18	11:16	57.7	53.0	60.5		57.7	Fine	0.4
28-Dec-18	11:31	57.7	53.0	59.0		57.7	Fine	0.5
03-Jan-19	16:30	64.5	62.0	67.5		64.5	Fine	1.3
09-Jan-19	09:47	66.5	63.5	69.5		66.5	Fine	0.0
15-Jan-19	11:15	70.5	67.0	73.0	75	70.5	Cloudy	1.3
21-Jan-19	10:51	62.4	55.5	65.5	75	62.4	Fine	0.3
28-Jan-19	14:21	64.4	61.5	66.0		64.4	Fine	0.6
01-Feb-19	17:00	72.5	68.5	75.0		72.5	Fine	1.4
08-Feb-19	10:40	60.0	52.5	62.0		60.0	Fine	1.1
14-Feb-19	15:45	72.6	68.5	75.0		72.6	Fine	1.2
20-Feb-19	14:30	73.2	69.0	77.5		73.2	Fine	1.7
26-Feb-19	14:45	65.4	58.5	68.5		65.4	Sunny	1.1

#### NMS 19 Wo Che Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	S		(m/s)
05-Dec-18	13:41	65.9	62.5	67.5		65.9	Cloudy	1.0
11-Dec-18	11:05	72.1	69.0	73.5		72.1	Fine	1.2
15-Dec-18	09:50	65.6	61.5	67.5		65.6	Fine	0.8
21-Dec-18	09:52	63.7	61.5	65.5		63.7	Fine	0.7
28-Dec-18	09:41	67.1	63.5	69.0		67.1	Fine	1.0
04-Jan-19	10:28	67.7	65.0	69.5		67.7	Cloudy	0.2
10-Jan-19	10:51	71.2	67.0	74.0		71.2	Fine	1.1
16-Jan-19	13:40	70.5	66.0	73.5	75	70.5	Cloudy	1.2
22-Jan-19	10:40	68.9	65.0	70.0		68.9	Fine	1.2
29-Jan-19	14:07	69.0	63.0	71.5		69.0	Fine	0.6
04-Feb-19	11:31	65.8	62.0	68.0		65.8	Fine	0.0
11-Feb-19	11:05	67.7	64.5	69.5		67.7	Fine	0.5
18-Feb-19	14:15	66.0	64.0	68.5		66.0	Fine	1.2
25-Feb-19	17:39	66.4	63.5	69.0		66.4	Fine	0.2

### NMS 20 Wo Che Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	IS		(m/s)
05-Dec-18	12:08	64.3	59.5	66.5		64.3	Cloudy	0.9
11-Dec-18	10:30	69.7	67.0	71.5		69.7	Fine	1.6
15-Dec-18	10:26	59.6	57.0	61.5		59.6	Fine	0.6
21-Dec-18	10:28	58.7	56.5	60.0		58.7	Fine	0.4
28-Dec-18	10:16	58.7	56.5	60.5		58.7	Fine	1.1
04-Jan-19	11:04	63.3	58.5	65.5		63.3	Cloudy	0.3
10-Jan-19	11:28	65.8	58.5	70.0		65.8	Fine	0.8
16-Jan-19	14:15	71.6	68.0	73.0	75	71.6	Cloudy	1.3
22-Jan-19	11:15	61.3	57.5	63.0		61.3	Fine	0.8
29-Jan-19	15:09	64.6	59.0	66.0		64.6	Fine	0.6
04-Feb-19	12:05	58.8	55.0	61.0		58.8	Fine	0.0
11-Feb-19	11:42	60.1	57.5	62.0		60.1	Fine	0.3
18-Feb-19	14:50	67.5	65.0	70.0		67.5	Fine	0.9
25-Feb-19	18:13	60.9	58.0	63.0		60.9	Fine	0.3

### NMS 23 Pai Tau

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	t: dB(A) 30 Min	IS		(m/s)
05-Dec-18	11:15	63.9	60.5	66.5		63.9	Cloudy	0.9
11-Dec-18	11:00	64.8	60.0	67.0		64.8	Fine	1.5
15-Dec-18	10:47	68.5	64.0	70.5		68.5	Fine	0.6
21-Dec-18	11:30	71.0	66.0	72.5		71.0	Fine	0.8
28-Dec-18	11:30	69.5	67.0	72.0		69.5	Fine	1.1
03-Jan-19	13:30	63.5	57.5	66.0		63.5	Fine	1.1
09-Jan-19	12:00	61.9	59.5	64.0		61.9	Fine	0.0
15-Jan-19	13:00	65.6	57.0	68.0	75	65.6	Cloudy	0.0
21-Jan-19	11:41	63.2	60.5	64.5		63.2	Fine	0.1
28-Jan-19	15:14	63.5	58.0	65.5		63.5	Fine	0.4
01-Feb-19	13:40	68.6	64.5	71.0		68.6	Fine	1.4
08-Feb-19	14:20	62.5	54.0	64.0		62.5	Fine	1.4
14-Feb-19	11:40	64.5	58.5	66.0	]	64.5	Fine	0.8
20-Feb-19	10:45	66.5	62.0	69.0	]	66.5	Fine	1.6
26-Feb-19	10:25	68.5	60.0	72.0		68.5	Sunny	1.2

#### NMS 24 Shatin Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	t: dB(A) 30 Min	IS		(m/s)
04-Dec-18	13:57	63.3	61.5	65.0		63.3	Sunny	1.2
10-Dec-18	14:57	63.5	60.5	64.5		63.5	Sunny	1.0
14-Dec-18	12:20	64.4	60.5	66.5		64.4	Fine	1.2
20-Dec-18	12:04	63.0	61.0	64.5		63.0	Fine	0.7
27-Dec-18	13:30	65.9	62.5	68.5		65.9	Fine	0.5
04-Jan-19	09:07	68.7	67.0	70.0		68.7	Cloudy	0.8
10-Jan-19	12:20	67.4	64.8	69.7		67.4	Fine	0.8
16-Jan-19	14:55	69.0	65.5	73.5	75	69.0	Cloudy	1.2
22-Jan-19	15:05	69.0	65.0	72.5		69.0	Fine	1.1
29-Jan-19	09:00	63.1	61.0	64.0		63.1	Fine	0.6
04-Feb-19	08:30	62.7	60.5	63.5		62.7	Fine	0.4
11-Feb-19	14:17	63.6	61.5	65.0		63.6	Fine	0.1
18-Feb-19	09:05	67.5	62.0	70.5		67.5	Fine	1.2
25-Feb-19	10:21	63.8	62.0	65.0		63.8	Fine	0.3

#### NMS 25A Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linin Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	IS		(m/s)
04-Dec-18	14:44	68.5	58.0	73.0		68.5	Sunny	1.0
10-Dec-18	10:06	65.3	63.5	66.5		65.3	Sunny	1.2
14-Dec-18	10:43	73.6	65.0	80.0		73.6	Fine	1.1
20-Dec-18	09:01	66.3	59.0	70.5		66.3	Fine	0.6
27-Dec-18	14:38	70.5	64.5	73.0		70.5	Fine	0.7
04-Jan-19	09:51	66.7	59.2	70.6		66.7	Cloudy	0.5
10-Jan-19	08:31	69.0	57.5	73.0		69.0	Fine	0.5
16-Jan-19	08:30	66.5	50.5	70.5	75	66.5	Cloudy	0.2
22-Jan-19	11:50	70.4	67.0	72.0		70.4	Fine	1.3
29-Jan-19	08:40	71.4	60.0	76.5		71.4	Fine	0.7
04-Feb-19	08:30	62.1	60.4	63.8		62.1	Fine	0.0
11-Feb-19	14:58	70.2	67.0	71.5		70.2	Fine	0.4
18-Feb-19	16:40	72.1	68.5	74.0		72.1	Fine	1.5
25-Feb-19	14:23	66.0	60.0	69.0		66.0	Fine	0.1

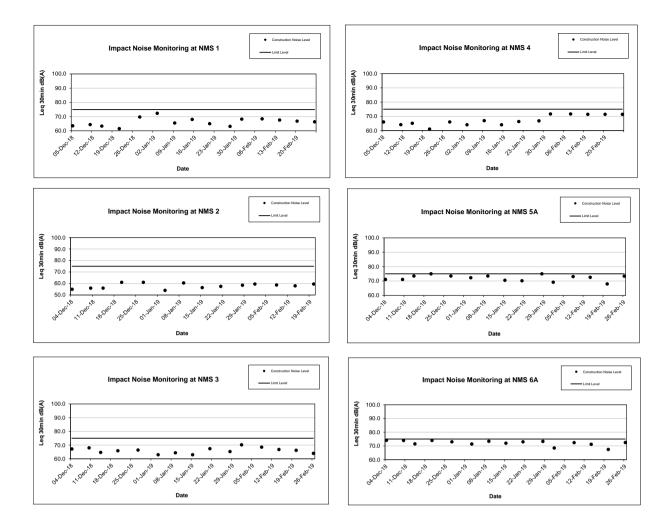
### NMS 26 Wo Che Estate

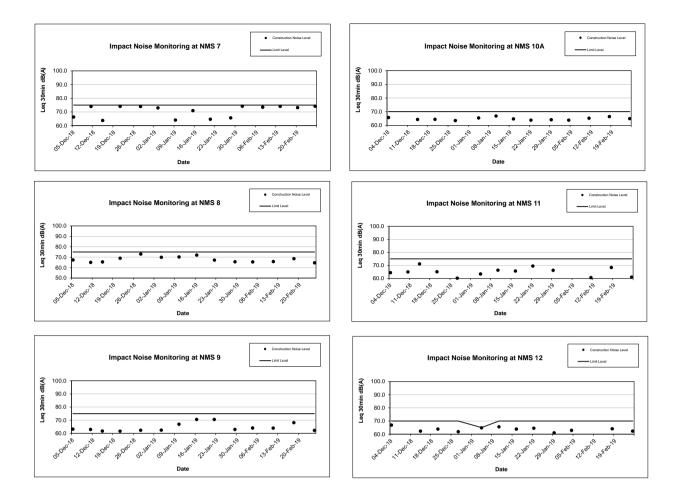
			ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	IS		(m/s)
05-Dec-18	14:18	72.6	68.5	75.0		72.6	Cloudy	1.0
11-Dec-18	11:40	74.4	71.5	76.0		74.4	Fine	1.3
15-Dec-18	11:02	68.2	65.0	70.5		68.2	Fine	0.7
21-Dec-18	10:40	68.6	66.0	70.5		68.6	Fine	0.7
28-Dec-18	10:54	69.6	67.0	71.5		69.6	Fine	0.7
04-Jan-19	11:37	68.4	61.5	73.0		68.4	Cloudy	0.9
10-Jan-19	10:15	72.5	68.0	75.0		72.5	Fine	0.7
16-Jan-19	10:20	70.4	68.0	73.0	75	70.4	Cloudy	0.2
22-Jan-19	13:50	71.2	67.0	73.5		71.2	Fine	1.1
29-Jan-19	11:03	71.6	67.5	74.5		71.6	Fine	0.4
04-Feb-19	10:16	70.0	66.5	72.0		70.0	Fine	0.0
11-Feb-19	15:49	68.3	66.0	70.0		68.3	Fine	0.5
18-Feb-19	13:00	74.6	64.5	77.0		74.6	Fine	1.3
25-Feb-19	16:30	68.0	65.5	70.0		68.0	Fine	0.3

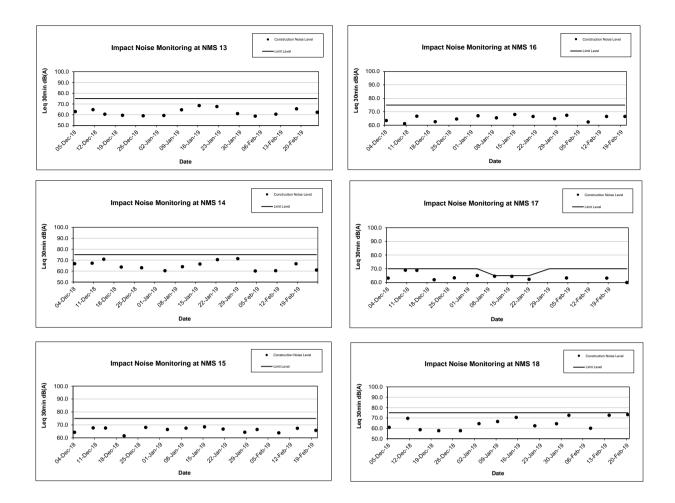
### NMS 27 Jockey Club Ti-I College

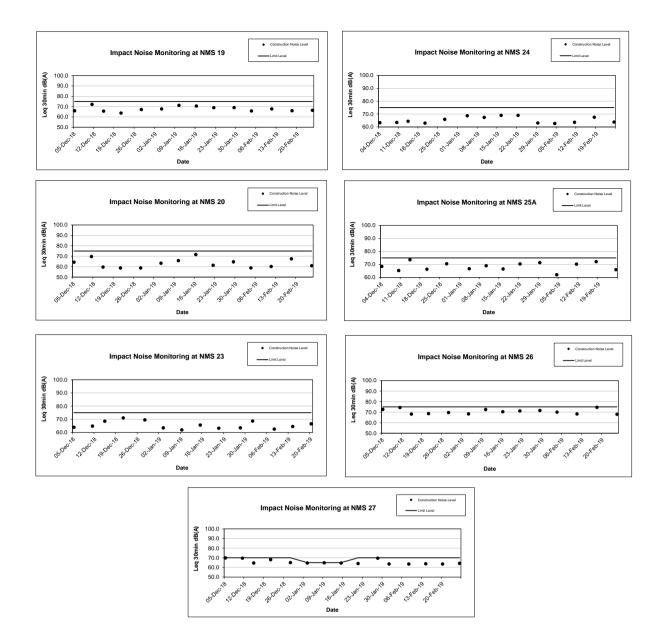
		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>	Linit Level	Construction Noise Level	Weather	Speed
				(m/s)				
05-Dec-18	12:55	69.9	68.0	73.0		69.9	Cloudy	0.8
11-Dec-18	14:32	69.6	65.0	71.5		69.6	Fine	1.0
15-Dec-18	12:30	64.6	62.0	66.5	70	64.6	Fine	0.4
21-Dec-18	12:35	68.0	66.0	69.5		68.0	Fine	1.2
28-Dec-18	12:37	65.0	64.0	66.5		65.0	Fine	1.0
03-Jan-19	12:50	64.6	57.5	67.0		64.6	Fine	1.3
09-Jan-19	14:00	64.8	62.5	66.5	65	64.8	Fine	0.0
15-Jan-19	13:45	64.5	60.0	66.5		64.5	Cloudy	0.8
21-Jan-19	17:37	64.0	60.8	68.3		64.0	Fine	0.0
28-Jan-19	15:02	69.6	65.5	71.0		69.6	Fine	0.9
01-Feb-19	16:15	63.6	58.5	64.5		63.6	Fine	1.2
08-Feb-19	15:00	63.5	56.5	65.0	70	63.5	Fine	1.2
14-Feb-19	15:05	63.8	58.0	64.5		63.8	Fine	1.4
20-Feb-19	13:50	63.5	58.0	65.5		63.5	Fine	1.4
26-Feb-19	13:50	64.2	58.5	65.5		64.2	Sunny	1.2

Note: According to the school schedule, there was an exam period from 2/1/2019 to 18/1/2019.









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Appendix E

Waste Flow Table

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		Actual Quant	tities of Inert C&I	D Materials Gene	erated Monthly		Actual	Quantities of Non-	inert C&D Wast	es Generated N	lonthly
Months	Total Quantity Generated (Inert C&D)	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 2)	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> )
2018 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
2018 Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
2018 Dec	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
Total	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.018

Note:

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

2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

3) 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>.

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		Actual Quant	ities of Inert C&I	D Materials Gene	erated Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Months	Total Quantity Generated (Inert C&D)	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 2)	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> )
2019 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021
2019 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049
2019 Mar											
2019 Apr											
2019 May											
2019 Jun											
Sub-Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070
2019 Jul											
2019 Aug											
2019 Sep											
2019 Oct											
2019 Nov											
2019 Dec											
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070

Note:

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

2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

3) 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>.

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Appendix F

**Environmental Mitigation Implementation Schedule (EMIS)** 

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EIA Review Ref	Location	Environmental Protection Measures/	Implementatio n Agent	Implementation Status in Construction Phase
		Noise Measures		
		• Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A).	Contractor	Implemented
		<ul> <li>PME is recommended to operate in sub-grouping, and different sub-groups shall not be operated concurrently within any half hour period</li> </ul>	Contractor	Implemented
		<ul> <li>The construction activities should be carried out in the daytime hours (0700 – 1900).</li> <li>Construction Noise Permit (CNP) for constriction activities is required during evening or night time hours.</li> </ul>	Contractor	Implemented
3.10.2, 3.10.3, 3.10.14, 3.10.15		<ul> <li>Construction work programme should be considered before actual construction work is undertaken, and noise mitigation measures should be implemented to minimize the potential construction noise impact. Selection and optimization of construction programmes, avoidance and reduction of parallel operation of noisy PME during noise sensitive periods.</li> </ul>	Contractor	Implemented
and Table 3.10		<ul> <li>Use of well-maintained and regularly-serviced plant during the works.</li> </ul>	Contractor	Not Observed
	Within the boundaries of	<ul> <li>Plant operating on intermittent basis should be turned off or throttled down when not in active use.</li> </ul>	Contractor	Implemented
	all construction sites.	<ul> <li>Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs.</li> </ul>	Contractor	Implemented
		<ul> <li>Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works.</li> </ul>	Contractor	Implemented
		<ul> <li>Fixed plants should be sited away from NSRs where possible.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.</li> </ul>	Contractor	Not Applicable
3.10.4, 3.10.5		<ul> <li>The use of particular plant with equipment quieter than those specified in the GW-TM are recommended to reduce the noise levels generated by the plant.</li> </ul>	Contractor	Not Applicable
and Table 3.3		<ul> <li>Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes</li> </ul>	Contractor	Not Applicable
3.10.6 to 3.10.9		<ul> <li>Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone.</li> </ul>	Contractor	Not Applicable
		• The use of 3m high moveable barriers with skid footing and a small cantilevered upper portion	Contractor	Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementatio n Agent	Implementation Status in Construction Phase
		should be adopted. The barrier material shall have a surface mass of not less than 14kg/m <sup>2</sup> on skid footing with 25mm thick internal sound absorptive lining to achieve the maximum screening effect.		
		<ul> <li>These temporary noise barriers should be located immediately adjacent to working area.</li> </ul>	Contractor	Not Applicable
		<ul> <li>The temporary noise barriers should be located along the working area to make sure the construction plant could be screened during all kinds of construction activities as far as practicable.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Noise jacket/muffler shall be used to cover the noisy part of the engine or at the engine exhaust of particular mobile plants respectively when temporary noise barriers are not practicable or noise reduction achieved is insufficient.</li> </ul>	Contractor	Not Applicable
		<ul> <li>For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Barrier material of surface density of at least 14 kg/m<sup>2</sup> is recommended in order to achieve the necessary screening effect.</li> </ul>	Contractor	Not Applicable
3.10.10		<ul> <li>Full noise enclosures should cover the PME or fixed plants such as air compressor.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works;</li> </ul>	Contractor	Not Applicable
3.10.3		<ul> <li>Where possible fixed plants should be sited away from NSRs; and</li> </ul>	Contractor	Not Applicable
		<ul> <li>Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.</li> </ul>	Contractor	Not Applicable
		Air Quality Measures		
4.12.1 and	Within the boundaries of	<ul> <li>The Contractor shall notify any specific construction works as stated in the Air Pollution Control (Construction Dust) Regulation to the Authority before the commencement of such work. Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be implemented to control dust emissions from all construction work sites.</li> </ul>	Contractor	Implemented
4.12.1 and 4.12.2	all construction sites.	<ul> <li>The Contractor shall undertake at all times to prevent dust nuisance as a result of his activities. Dust suppression measures such as the water spraying are necessary and should be installed to ensure that the air quality at the boundary of the site and at any sensitive receivers complies with the Hong Kong Air Quality Objectives.</li> </ul>	Contractor	Implemented
		• The Contractor shall apply for a license or permit under the requirements of the relevant	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementatio n Agent	Implementation Status in Construction Phase
		legislation (e.g. Air Pollution Control Ordinance and its subsidiary regulations) wherever applicable.		
		• Watering of unpaved areas, access roads, construction areas and dusty stockpiles shall be undertaken at least eight times daily during dry and windy weather. Watering of the haul road shall be undertaken four to eight times daily during dry or windy weather. Water sprays may be either fixed or mobile to follow individual areas to be wetted as and when required. Application of suitable wetting agents, such as dust suppression chemicals, shall be used in addition to water, especially during the dry season (October to December). It is also suggested that watering with complete coverage of active construction area eight times a day.	Contractor	Implemented
		<ul> <li>Effective water sprays shall be used during the delivery and handling of all raw sand and aggregate, and other similar materials, wet dust is likely to be created and to dampen all stored materials during dry and windy weather.</li> </ul>	Contractor	Implemented
		<ul> <li>Stockpiles of sand, aggregate or any other dusty materials greater than 20m<sup>3</sup> shall be enclosed on three sides, with walls extending above the pile and 1 meter beyond the front of the pile.</li> </ul>	Contractor	Implemented
		<ul> <li>Suitable chemical wetting agent such as dust suppression chemical shall be used on completed cuts and fills to reduce wind erosion.</li> </ul>	Contractor	Not Observed
		<ul> <li>Areas within the construction site where there is a regular movement of vehicles shall have a paved surface and be kept clear of loose surface material.</li> </ul>	Contractor	Not Applicable
4.12.1		<ul> <li>The Contractor shall restrict all motorized vehicles within the construction site, excluding those on public roads, to maximum speed of 20 km per hour and confine haulage and delivery vehicles to designated roadways inside the Site.</li> </ul>	Contractor	Implemented
		<ul> <li>Construction working areas should be restricted to a minimum practicable size.</li> </ul>	Contractor	Implemented
		<ul> <li>The Contractor shall ensure that no earth, rock or debris is deposited on public or private rights of way as result of his activities, including any deposits arising from the movement of plant or vehicles.</li> </ul>	Contractor	Implemented
		<ul> <li>The Contractor shall provide a wheel washing facility at the exits from work areas to the satisfaction of the Engineer and to the requirements of the Commissioner of Police. Water in wheel washing facilities and sediment shall be changed and removed respectively at least once a month.</li> </ul>	Contractor	Not Observed

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EIA Review Ref	Location	Environmental Protection Measures/	Implementatio n Agent	Implementation Status in Construction Phase
		<ul> <li>The Contractor shall submit details of the wheel washing facilities, which shall be usable prior to any earthworks excavation activity on the construction site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road.</li> </ul>	Contractor	Not Applicable
		<ul> <li>In the event of any spoil or debris from construction works being deposited on adjacent land, or steams, or any slit being washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the Engineer.</li> </ul>	Contractor	Not Applicable
		<ul> <li>If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas.</li> </ul>	Contractor	Implemented
		<ul> <li>Plant and vehicles shall be inspected annually to ensure that they are operating efficiently and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground.</li> </ul>	Contractor	Not Observed
		<ul> <li>Construction dust monitoring shall be carried out at representative monitoring locations during the construction period.</li> </ul>	Contractor	Implemented
4.12.1, 4.13.1 and Table 8.2		• Path for complaints and handling procedures should be set up and implement.	Contractor	Implemented
		<ul> <li>Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005.</li> </ul>	Contractor	Implemented
NA		<ul> <li>Plant and equipment should be well maintained to prevent dark smoke emission.</li> </ul>	Contractor	Not Applicable
INA		<ul> <li>Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site.</li> </ul>	Contractor	Implemented
		Water Quality Measures		
5.7		<ul> <li>Silt-laden surface run-off should be prevented from directly entering the sensitive receivers during the construction works. The mitigation measures described below for the construction phase are in accordance with ProPECC PN 1/94:</li> </ul>	Contractor	Implemented
	sites.	<ul> <li>Construction works should be programmed so as to minimise excavation during the wet season</li> </ul>	Contractor	Implemented

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		(April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm.		
		<ul> <li>Existing and newly constructed open manholes should be covered and sealed to prevent run off and water borne debris entering the drainage network without having previously passed through a sediment trap.</li> </ul>	Contractor	Implemented
		<ul> <li>Stock piles of construction materials, sand and gravel or excavated material should be covered with tarpaulins prior to rainstorms. The washing of material from the stockpiles directly into the storm drains should be prevented by passing the run off through a sediment trap.</li> </ul>	Contractor	Implemented
		• The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be constructed prior to the commencement of site formation and earthworks.	Contractor	Not Applicable
		<ul> <li>The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained by regular cleaning of accumulated silt and sand. Particular attention should be paid to maintenance following heavy rainfall and immediately after the issue of heavy rainfall warning by the Hong Kong Observatory.</li> </ul>	Contractor	Not Applicable
		• The ingress of rainwater into trenches should be minimised by the construction of bunds to prevent water flowing into the trench and covering by tarpaulins to prevent direct entry. The lengths of excavated trenches should be minimised and backfilled at the earliest opportunity. Water pumped from the trenches should be discharged to the storm water drains following passage through a suitable silt trap.	Contractor	Implemented
		<ul> <li>Any ground water seeping into any trenches or foundation works should be passed through a silt trap prior to discharge to the storm water drains.</li> </ul>	Contractor	Not Applicable

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		<ul> <li>The water used for the washing down of mixing drums used for onsite batching of concrete and delivery lorries for off-site batched concrete should be recycled whenever possible. Wastewater generated from the washing which is discharged should be passed through a silt trap before discharge to the storm water system.</li> </ul>	Contractor	Not Applicable
		• The wastewater from the washing of the wheels and subframe of vehicles returning from the site onto public roads will contain suspended solids and debris. A washing bay should be provided at the exit from the site and should, where practicable, incorporate water recirculation. Water from the washing bay which is discharged to the storm water system should first be passed through a silt trap which also includes an oil/grease removal weir.	Contractor	Not Applicable
		• Plant maintenance areas should be paved to prevent waste oils soaking into the ground. Where possible the area should be undercover to minimise the formation of runoff and any runoff from the paved area passed through an oil trap before being discharged to the storm drains. Fuel storage tanks should be surrounded by bunds with a capacity of at least 150% of the storage capacity. The bunded areas should be able to be drained of rain water through the petrol interceptor and accumulated rain removed at regular intervals.	Contractor	Not Applicable
		<ul> <li>Waste oils from the site should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance and absorbent cloths and granules should be available for the cleanup of spillages.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Sewage from toilets and kitchens should be discharged directly into a foul sewer. If it is not possible to locate the site offices within easy access of a foul sewer a septic tank and soakaway should be constructed before the offices are occupied. Chemical toilets should be emptied on a daily basis and the contents taken to a foul sewer or the Sha Tin Sewage Treatment Works for disposal. Wastewater collected from canteen kitchens should be discharged to the foul sewers via grease traps which provide a minimum of 20 minutes retention during peak flow. All discharges into foul sewers and storm sewers should have to be complied with TM standards under WPCO.</li> </ul>	Contractor	Not Applicable
		<ul> <li>Run off from roofed surfaces of site facilities should be collected and diverted to a storm water drain. Passage through a silt trap is only required if the water is diverted via open .channels which might accumulate solids during non-rainy periods or which intercept surface run off from unpaved areas.</li> </ul>	Contractor	Not Applicable

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		• Discharges from the site shall be required to meet the terms and conditions of a valid WPCO Water Pollution Control Ordinance (WPCO).	Contractor	Implemented
		<ul> <li>Regular site inspection of the construction works shall be carried out to determine compliance wit measures. Inspection should be included:</li> </ul>	h the recommend	led mitigation
		(i) The functioning of onsite surface water collection channels and sediment traps.	Contractor	Not Applicable
		(ii) The functioning of interception channels at the boundary of the works areas	Contractor	Not Applicable
		(iii) The covering of stockpiles of fill and construction materials and the routing of any run off through the sediment traps.	Contractor	Not Applicable
Section 12.6 of the Approved		(iv) The pumping procedures for emptying trenches and other excavations and the use of silt traps prior to the discharge of the water to the storm water system.	Contractor	Not Applicable
EIA Report		(v) The use of washwater for hosing down concrete mixing and delivery vehicles and other vehicles leaving the site and the routine of excess water from the facility through sediment traps.	Contractor	Not Applicable
		(vi) The operation of the plant maintenance areas to control small spillages and the correct management of the fuel storage bunded area.	Contractor	Not Applicable
		(vii) The connection of the site office wastewater discharge to an existing foul sewer if appropriate or the operation of the kitchen wastewater grease trap and the regular emptying of the chemical toilets		Not Applicable
		(viii)The operation of the roof rain water collection and drainage system.	Contractor	Not Applicable
	1	Landscape and Visual Mitigation Measures		
		Construction Phase		
Table 6.5	During	• Existing trees shall be preserved as much as possible. Detailed tree preservation and transplanting proposals shall be submitted to relevant government departments for approval in accordance with DEVB TC (W) No. 7/2015.		Implemented
	construction within the Project Boundary.	<ul> <li>Topsoil will be conserved as far as possible during the road improvement works and utilized during the replanting operations. The stock piling height of the topsoil will not be more than 2m.</li> </ul>	Contractor	Implemented
		• Old and valuable trees (OVTs) identified in the Project Boundary shall be protected in accordance with ETWB TCW no. 29/2004.	Contractor	Implemented
		• Night-time lighting glare shall be properly managed and control during construction so as	Contractor	Implemented

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		to minimize any adverse visual impact on adjacent VSRs.			
		• Decorative screen hoarding with design compatible with the surrounding landscape setting shall be erected along the southern boundary of Tai Po Road to mitigate any potential adverse impact on adjacent Pedestrian and Cyclists on Footpath/Bicycle Track.		Not Applicable	
		Operation Phase			
	During	• Compensatory planting shall be provided within and outside the project boundary where possible. Detailed compensatory planting proposal will be prepared in accordance with DEVB TC (W) No. 7/2015.		Not Applicable	
		• Planting shall be undertaken at the earliest practical time in the construction period. The planting proposal shall aim to strengthen the existing tree species and supplement the existing tree planting to provide an effective screen to ameliorate any potential landscape and visual impacts. The proposed species to be utilized for road improvement works shall be agreed with LCSD and future maintenance authorities. All the proposed species for compensatory planting shall be suitable for roadside streetscape planting.	Contractor	Not Applicable	
	construction within the Project Boundary.	• Provision of visually pleasing noise barriers and enclosures design shall be proposed. The design of these structures aims to minimize any potential visual impact and visually integrate the proposed structures into the adjacent landscape context. This should be achieved through the use of form, color, tones, materials and planting materials.	Contractor	Not Applicable	
		• Aesthetically pleasing hard landscape treatment of the carriageway and roadside furniture shall be proposed, including development of chromatic themes in the architectural treatment of engineering structures, and the consideration of landscape lighting and special landscape features.	Contractor	Not Applicable	
		• Shrubs and climbers planting are proposed on the facade of Noise Enclosures and Barriers to mitigate any adverse impact on adjacent VSRs in area where space for tree planting is not feasible.		Not Applicable	
	Waste Management Measures				
7.6.2 to 7.6.4	Within the boundaries of all construction sites.	• In accordance with ETWB TC (W) No. 19/2005 - Environmental Management on Construction Sites", the Contractor shall prepare and implement a Waste Management Plan (WMP) as part of the Environmental Management Plan (EMP). The EMP shall describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and	Contractor	Implemented	

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		disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval.		
		<ul> <li>The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.</li> </ul>	Contractor	Implemented
		<ul> <li>Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimization of waste generation in the hierarchy.</li> </ul>	Contractor	Implemented
7.6.5 to 7.6.6		<ul> <li>Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste.</li> </ul>	Contractor	Implemented
		<ul> <li>Specific measures targeting the mitigation of impacts in works areas and the transportation of spoil off-site should be provided to minimize the potential impacts to the surrounding environment.</li> </ul>	Contractor	Implemented
7.6.7	Within the boundaries of	<ul> <li>To facilitate adoption of the best-practice philosophy, training shall be provided to all personnel working on site. The training shall promote the concept of general site cleanliness and clearly explain the appropriate waste management procedures defined in the EMP. Overall, the training should encourage all workers to reduce, reuse and recycle wastes.</li> </ul>	Contractor	Implemented
	all construction sites as well as	The contractor's environmental performance shall be monitored and controlled through the week     the environmental walks shall include:	ly environmental	walks. The items after
	transportation routes to designed areas for off-site disposal of materials/Prior to and during	<ul> <li>A review of the EMP in particular the suitability of the environmental measures on nuisance abatement and waste management adopted by the contractor;</li> </ul>	Contractor	Implemented
		<ul> <li>The environmental performance of the contractor and his sub-contractors;</li> </ul>	Contractor	Partially Implemented
7.6.8 to 7.6.9		<ul> <li>The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and</li> </ul>	Contractor	Partially Implemented
		<ul> <li>The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site.</li> </ul>	Contractor	Partially Implemented
	construction activities.	<ul> <li>Waste shall only be disposed of at licensed sites and the WMP should include procedures to ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&amp;D materials and non-inert C&amp;D materials at public</li> </ul>	Contractor	Implemented

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		fill reception facilities and landfills, respectively. Appropriate measures should be employed to minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.		
7.6.10		<ul> <li>Work site(s) shall be arranged and managed to facilitate the proper management of wastes and materials. The WMP shall include plans indicating specific areas designated for the storage of particular types of waste, reusable and recyclable materials as well as areas and management proposals for any stockpiling areas. Waste storage areas should be well maintained and cleaned regularly. Specific provisions for different types of material are outlined below. In general, these areas should be designed to avoid cross contamination of materials as well as pollution of the surrounding environment.</li> </ul>	Contractor	Partially Implemented
		<ul> <li>In order to minimize the impact resulting from collection and transportation of C&amp;D material for off-site disposal, the excavated fill materials should be reused on site as backfill material as far as possible.</li> </ul>	Contractor	Implemented
7.6.11 to 7.6.14		<ul> <li>Careful design, planning and good site management should be maintained in order to minimise over ordering and generation of surplus materials such as concrete, mortars and cement grouts. The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic facing should be considered to increase the potential for reuse.</li> </ul>	Contractor	Not Applicable
		<ul> <li>C&amp;D materials should be segregated on site into different waste and material types. The Contractor should clearly demonstrate in the EMP how he intends to maximise the reuse of C&amp;D material on-site. Where reuse of materials on site is not feasible, the Contractor should explore opportunities for recycling materials off-site, and inert C&amp;D materials shall be reused on site as much as possible.</li> </ul>	Contractor	Implemented
		• Paving bricks arising from existing pavement should be recycled on site as much as possible.	Contractor	Not Applicable
		<ul> <li>Existing marginal roadside barriers comprise pre-cast units should be reused in the following widening works as much as possible,</li> </ul>	Contractor	Not Applicable
		<ul> <li>Existing bridge parapets comprise aluminum post and railings, which have a recyclable value and should be sold for reconditioning or reused for scrap metal as much as possible</li> </ul>	Contractor	Not Applicable
		• Any stockpile should be sited away from existing watercourses and suitably covered to prevent wind erosion and impacts on air and water quality.	Contractor	Implemented

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		<ul> <li>Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Wastes as follows. Containers used for the storage of chemical was</li> </ul>		torage of Chemical
		• be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;	Contractor	Implemented
		<ul> <li>have a capacity of less than 450L unless the specifications have been approved by the EPD; and</li> </ul>	Contractor	Implemented
		• display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C).	Contractor	Implemented
		The storage area for chemical wastes should:		
		<ul> <li>be clearly labelled and used solely for the storage of chemical waste;</li> </ul>	Contractor	Implemented
		<ul> <li>be enclosed on at least 3 sides;</li> </ul>	Contractor	Implemented
7.6.15 to 7.6.17		<ul> <li>have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;</li> </ul>	Contractor	Implemented
		have adequate ventilation;	Contractor	Implemented
		• be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); and	Contractor	Implemented
		<ul> <li>be arranged so that incompatible materials are adequately separated.</li> </ul>	Contractor	Implemented
		The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other che Disposal (Chemical Waste) (General) Regulation will require disposal by appropriate means and prior to disposal. Appropriate means include disposal:		
		<ul> <li>via a licensed waste collector; and</li> </ul>	Contractor	Implemented
		<ul> <li>to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers; or</li> </ul>	Contractor	Implemented
		<ul> <li>to a reuser of the waste, under approval from EPD.</li> </ul>	Contractor	Not Applicable
7.6.18 to 7.6.20		<ul> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separate from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily or every second day basis to minimize</li> </ul>	Contractor	Partially Implemented

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		odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law.		
		Separate labelled bins should be provided if feasible.	Contractor	Implemented
		• Office waste can be reduced through recycling of paper if volume is large enough to warrant collection. Participation in a local collection scheme should be considered if one is available.		Not Observed
7.7.1		• All wastes produced during the construction of the Project shall be handled, stored, and disposed of in accordance with good waste management practices and relevant regulations and requirements.	Contractor	Partially Implemented
		• The mitigation measures recommended in the EIA/EIA review report should form a basis of the WMP to be developed by the Contractor in the construction phase of the Project.	Contractor	Implemented
EP 1.5		<u>General Condition</u>		
N.A	During construction within the Project Boundary.	• The Permit Holder shall display conspicuously a copy of this Permit on the Project site(s) at all vehicular site entrance/exits or at a convenient location for public information at all times. The Permit Holder shall ensure that the most updated information about the Permit, including ant amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s).	Contractor	Implemented

Implementation status: Implemented / Partially Implemented / Not Implemented / Not Observed / Not Applicable