

# FUGRO TECHNICAL SERVICES LIMITED

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Report No.: 0064/18/ED/0401A

## QUARTERLY EM&A REPORT

September 2019 – November 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/0401A

**Prepared by** : Rex Chow

**Reviewed by** : Cyrus Lai

**Certified by** :

A handwritten signature in black ink, appearing to read "Yodny", written over a horizontal line.

David Hung  
Environmental Team Leader  
Fugro Technical Services Limited



Our ref: ASCL-2018010

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

Attention: Miss Cannifer FUNG

28 April 2020

Dear Miss Fung,

**NE/2017/05**

**Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)  
Quarterly EM&A Report for September to November 2019**

I refer to the email of ET regarding to the captioned Quarterly EM&A Report with report No. 0064/18/ED/0401A, 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. Hung David (by email only: d.hung@fugro.com)



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Date 14 May 2020  
Our Ref. MCL/ED/0274/2020/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/0401A)**

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/0401A) 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.

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

David Hung  
Environmental Team Leader

c.c. CEDD Attn: Mr. Joseph Yan / 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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Report No.: 0064/18/ED/0401A

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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 4<sup>th</sup> Quarterly EM&A Report presents the environmental monitoring and audit works for the period between 1 September 2019 and 30 November 2019. As informed by the Contractor, major activities in the reporting period included:

Date	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Sep 2019	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Tree pruning / preservation</li> <li>• Construct temporary road and site access</li> <li>• Lane Shift Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Construct temporary road and site access</li> <li>• Underground utilities diversion</li> <li>• Lane Shift Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Construct temporary road and site access</li> <li>• Underground utilities diversion</li> <li>• Construct ELS and piling platform</li> <li>• Retaining Wall Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Tree felling / pruning</li> <li>• Construct temporary road and site access</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Tree felling / pruning</li> <li>• Construct temporary road and site access</li> <li>• Underground utilities diversion</li> </ul>
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Nov 2019	<ul style="list-style-type: none"> <li>• Trial pits excavation</li> <li>• Underground utilities detections</li> <li>• Asphalt Milling and Paving and Lane Marking Modification</li> <li>• Central median modification</li> <li>• Pre-drilling</li> </ul>	<ul style="list-style-type: none"> <li>• Trial pits excavation</li> <li>• Underground utilities detections</li> <li>• Central median modification</li> <li>• Pre-drilling works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial pits excavation</li> <li>• Underground utilities detections</li> <li>• Underground utilities diversion</li> <li>• Retaining wall construction</li> <li>• Bore piling</li> <li>• Construct temporary road &amp; site access</li> <li>• Pre-drilling works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial pits excavation</li> <li>• Underground utilities detections</li> <li>• Construct temporary road and site access</li> <li>• Structure Works for Staircase</li> </ul>	<ul style="list-style-type: none"> <li>• Trial pits excavation</li> <li>• Underground utilities detections</li> <li>• Construct temporary road and site access</li> </ul>

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	works • Construct temporary road and site access • Retaining wall construction		and Soldier Pile works		
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## Breaches of the Action and Limit Levels

- iii. No Action / Limit Level exceedance was recorded for 24-hr and 1-hr TSP at the site area in the reporting quarter.
- iv. Day time construction noise monitoring was carried out in the reporting quarter, no Action / Limit Level exceedance was recorded during the period. For night time construction noise monitoring, nine exceedance cases were recorded between 2300 and 0700 of the next day during the reporting quarter. After ET's further investigation, only one noise exceedance case on 27 Sep 2019 was project related. The reason for the exceedance was construction noise related to road paving. The other eight exceedance cases should be related to background traffic noise.

## Complaint, Notification of Summons and Successful Prosecution

- v. Three complaint cases regarding noise nuisance were received on 8 Oct 2019, 9 Oct 2019 and 6 Nov 2019 respectively. After ET's investigation, the noise nuisances on 8 Oct and 9 Oct were considered to be project-related. For the case of noise nuisance near Wai Wah Centre on 8 Oct 2019, the contractor was permitted to carry out an emergency road repair works under an emergency excavation permit issued by the Highways Department; the work was not covered by the construction noise permit (CNP) issued by the EPD. And the complaint case of Wo Che Estate on 9 Oct 2019 was the noise from a generator which would only be operated in daytime 07:00 – 17:00 but not in restricted hours and a CNP was not required. The complaint case on 6 Nov 2019 was considered to be project-related. For the case of noise nuisance near Wai Wah Centre, main contractor of the project conducted the emergency road repair works under an Emergency Excavation Permit (EXP) of Plan ID: EO13123 with an emergency code M834914 with period starting from 5<sup>th</sup> November till 11<sup>th</sup> November 2019, which had been issued by the Highways Department (HyD). The main contractor had informed the management offices of the nearby NSRs in advance. The main contractor should inform the EPD in advance of any emergency opening works of the Project in future to facilitate the effective handling of noise complaint that may arise. For construction works covered by the CNP issued by EPD, the main contractor should fully comply with the conditions as stipulated and provided all noise mitigation measures as required under the conditions of the CNP. For works subject to the emergency situation, noise mitigation measures such as noise barrier, enclosure etc. should be provided as far as practicable to minimise the noise nuisance to the NSRs.
- vi. 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 quarterly 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.

1.1.6 This is the 4<sup>th</sup> quarterly EM&A Report which summarized the impact monitoring results and 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 1 Sep 2019 and 30 Nov 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**.

**Table 1.1 Contact Information of Key Personnel**

Party	Position	Name	Telephone
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. David Hung	3565 4371





**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:

Date	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Sep 2019	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Tree pruning / preservation</li> <li>• Construct temporary road and site access</li> <li>• Lane Shift Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Construct temporary road and site access</li> <li>• Underground utilities diversion</li> <li>• Lane Shift Works</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Construct temporary road and site access</li> <li>• Underground utilities diversion</li> <li>• Construct ELS and piling platform</li> <li>• Retaining Wall Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Tree felling / pruning</li> <li>• Construct temporary road and site access</li> </ul>	<ul style="list-style-type: none"> <li>• Trial Pits Excavation</li> <li>• Underground utilities detections</li> <li>• Tree felling / pruning</li> <li>• Construct temporary road and site access</li> <li>• Underground utilities diversion</li> </ul>
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	and site access				
	<ul style="list-style-type: none"> <li>Retaining wall construction</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**

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 for Road Closure works at restricted hours	GW-RN0443-19	1/7/2019	30/9/2019
	GW-RN0612-19	30/8/2019	31/10/2019
	GW-RN0633-19	1/10/2019	30/11/2019
	GW-RN0842-19	1/12/2019	31/01/2020



**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. 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
September 2019	AMS 4A	Wai Wah Centre	Residential
	AMS 6	Shatin Plaza	Residential
	AMS 7A	Sheung Wo Che	Residential
	AMS 15	Ha Wo Che	Residential
October 2019	AMS 4A	Wai Wah Centre	Residential
	AMS 6	Shatin Plaza	Residential
	AMS 7A	Sheung Wo Che	Residential
	AMS 15	Ha Wo Che	Residential
November 2019	AMS 3A	Wai Wah Centre	Residential
	AMS 6	Shatin Plaza	Residential
	AMS 7A	Sheung Wo Che	Residential
	AMS 12	Fung Wo Estate	Residential

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**.



**Table 2.2 Location of Noise Monitoring Station**

Monitoring Station	Location	Land Uses	Type of Measurement
NMS1	Scenery Court	Residential	Façade
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

**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-hr TSP Monitoring Results**

Monitoring Station	24-hr TSP ( $\mu\text{g}/\text{m}^3$ ) in Reporting Period			Average ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
	September 2019	October 2019	November 2019			
AMS 3A	-	-	47 - 122	78	200	260
AMS 4A	43 - 121	63 - 142	-	88	200	
AMS 6	43 - 94	54 - 107	40 - 98	70	165	
AMS 7A	43 - 93	54 - 79	36 - 84	78	171	
AMS 12	-	-	31 - 82	59	168	
AMS 15	48 - 72	56 - 84	-	65	172	

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

Monitoring Station	1-hr TSP ( $\mu\text{g}/\text{m}^3$ ) in Reporting Period			Average ( $\mu\text{g}/\text{m}^3$ )	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
	September 2019	October 2019	November 2019			
AMS 3A	-	-	47 - 142	85	350	500
AMS 4A	42 - 133	57 - 147	-	98	348	
AMS 6	38 - 107	52 - 116	39 - 113	75	347	
AMS 7A	62 - 117	44 - 91	37 - 100	76	344	
AMS 12	-	-	29 - 89	62	296	
AMS 15	44 - 79	54 - 91	-	69	350	

2.3.2 No Action / Limit Level exceedance for day time construction noise monitoring 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 Results**

Monitoring Station	Leq (30min) Range ,dB(A) in Reporting Period			Leq (30min) Limit Level, dB(A)
	September 2019	October 2019	November 2019	
NMS1	60.3 – 68.6	60.9 – 69.8	62.2 – 67.9	75
NMS2	55.3 – 63.0	56.7 – 65.7	57.9 – 61.2	75
NMS3	57.7 – 69.5	58.6 – 71.6	59.0 – 68.6	75
NMS4	64.8 – 72.1	65.4 – 72.8	65.0 – 71.6	75
NMS5A	67.9 – 73.0	65.3 – 74.4	69.9 – 73.1	75
NMS6A	67.7 – 74.1	65.8 – 74.0	68.7 – 72.4	75
NMS7	65.3 – 74.3	63.4 – 74.8	63.7 – 73.7	75
NMS8	66.2 – 71.6	67.9 – 70.6	68.0 – 71.3	75
NMS9	64.6 – 68.1	65.4 – 69.4	66.4 – 69.7	75
NMS10A	64.2 – 67.0	63.1 – 67.8	63.2 – 64.8	70*
NMS11	61.1 – 69.5	64.8 – 71.2	66.3 – 68.0	75
NMS12	60.5 – 64.7	61.8 – 64.6	63.6 – 65.1	70*
NMS13	56.1 – 69.1	66.1 – 67.8	66.7 – 67.8	75
NMS14	60.4 – 67.5	65.2 – 66.8	65.7 – 66.3	75
NMS15	62.9 – 68.4	63.4 – 67.5	64.4 – 65.6	75
NMS16	62.4 – 67.1	62.5 – 67.3	65.3 – 66.2	75



NMS17	60.8 – 64.5	63.8 – 64.8	63.7 – 64.6	70*
NMS18	59.8 – 64.8	60.6 – 67.5	63.7 – 66.1	75
NMS19	66.5 – 68.7	66.5 – 69.2	68.6 – 71.8	75
NMS20	61.2 – 67.6	67.0 – 70.3	67.7 – 69.6	75
NMS23	61.7 – 71.6	61.2 – 67.6	62.8 – 66.5	75
NMS24	64.3 – 69.9	64.5 – 72.1	69.4 – 72.6	75
NMS25A	69.7 – 72.4	62.8 – 72.6	72.6 – 74.2	75
NMS26	69.1 – 74.1	73.3 – 74.4	73.3 – 74.1	75
NMS27	60.5 – 64.8	61.6 – 64.7	62.8 – 64.3	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 reports, 9 exceedance cases were recorded between 2300 and 0700 of the next day during the reporting quarter. After ET’s further investigation, as the dominant noise should be the background traffic noise, the noise exceedance cases were considered not project-related. The results are summarized in **Table 2.6**.

2.3.4 Only one exceedance at NMS 4 on 27 September 2019 was project-related. Refer to ET site staff observation, the domain noise source should be construction noise. Two major construction works were carried out on 27<sup>th</sup> Sep 2019 which are light poles installation and road paving. All flaps and panels of asphalt paver were closed. Engine exhaust silencer and minimum 50mm thick absorbing lining to the engine compartments had been provided for the asphalt paver, Contractor complied the CNP No.: GW-RN0612-19 condition 3.d.10. Contractor was suggested to provide additional acoustic mat/ noise barrier between noise sources and NSRs to prevent noise nuisance.

**Table 2.6 Summary of Night Time Noise Impact Monitoring Results (2300 – 0700)**

Monitoring Station	Leq Range ,dB(A) in Reporting Period			Baseline Level, dB(A)	Leq Limit Level, dB(A)
	Sep 2019	Oct 2019	Nov 2019		
NMS 1	58.0 - 60.5	57.3 - 60.2	58.2 – 60.7	61.4	55
NMS 2	44.5 - 50.4	43.6 - 46.1	44.2 – 46.9	49.7	55
NMS 3	62.7 - 66.0	60.6 - 62.7	62.0 – 64.2	70.9	55
NMS 4	55.9 - 66.7	52.4 - 57.5	53.5 – 54.6	62.6	55
NMS 5A	67.0 - 69.7	67.6 - 71.9	67.6 – 70.9	67.9	55
NMS 6A	67.0 - 70.1	70.3 - 71.0	68.2 – 69.9	71.5	55
NMS 7	54.2 - 55.9	53.5 - 58.1	53.4 – 57.1	59.0	55
NMS 8	55.2 - 62.2	57.2 – 61.0	55.2 – 62.0	64.4	55
NMS 9	55.6 - 56.5	56.1 - 58.0	55.6 – 57.1	53.5	55
NMS 11	52.2 - 53.9	47.8 - 53.1	47.9 – 49.9	53.2	55
NMS 13	57.1 - 57.7	55.8 - 57.6	55.6 – 57.1	57.3	55
NMS 14	53.8 - 56.1	53.1 - 55.9	51.4 – 53.8	54.1	55
NMS 15	55.9 - 57.4	53.3 - 56.4	53.2 – 55.5	58.8	55
NMS 16	54.1 - 57.9	53.8 - 56.5	54.5 – 58.3	60.1	55
NMS 18	57.0 - 59.1	52.7 - 58.7	50.1 – 58.4	63.2	55
NMS 19	53.3 - 59.7	53.8 - 59.2	53.8 – 60.2	61.7	55
NMS 20	53.4 - 54.4	50.9 - 55.5	50.9 – 54.5	57.7	55
NMS 23	49.8 - 53.6	49.9 - 55.8	50.9 – 58.1	59.9	55

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NMS 24	58.2 - 59.1	56.4 - 58.5	56.4 - 57.8	58.0	55
NMS 25A	48.2 - 59.5	46.9 - 59.1	46.9 - 54.3	59.7	55
NMS 26	58.6 - 61.0	58.8 - 63.2	59.0 - 65.9	61.2	55

Note: 1.  $Leq$  (15min) was measured at night-time (2300-0700).

2. 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

- 2.3.5 No raining and wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.
- 2.3.6 During the reporting period, major dust sources including trial pits excavation and bore piling were 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.

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### 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 G**.
- 5.1.2 In the reporting quarter, 13 site inspections were carried out. 3 of them were the joint inspections with the IEC, ER, the Contractor and the ET.
- 5.1.3 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.
- 5.1.4 Details of observations recorded during the site inspections are presented in **Table 5.1**.

**Table 5.1 Observations and Recommendations of Site Audit**

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	25 Sep 2019	Reminder: 1. Cover the sandbags properly by impervious sheeting (Zone 2).	NA
	10 Oct 2019	Observation: 1. Cover the stockpile to prevent dust (Works Area B).	1. (Work Area B) Cover had been provided for dusty stockpile on 12/10/2019.
	14 Nov 2019	Reminder: 1. Regular water spraying of site	1. The frequency of water spraying was increased.
	27 Nov 2019	Observation: 1. Increase frequency of water spraying	1. The frequency of water spraying was increased.
Noise	No deficiency was found during the reporting quarter.		
Water Quality	11 Sep 2019	Reminder: 1. Increase the sedimentation efficiency of the sedimentation tank (N04).	NA
	19 Sep 2019	Reminder: 1. Prevent surface run-off from flowing outside the site boundary (Zone 1).	NA
	25 Sep 2019	Reminder: 1. Cover the sandbags properly by impervious sheeting (Zone 2).	NA
	3 Oct 2019	Observation: 1. Prevent surface run-off from flowing outside the site boundary (Zone 4).	1. (Zone 4) Sandbags were provided to prevent surface runoff from flowing out of site on 3/10/2019.
	17 Oct 2019	Observation: 1. Replace the broken sandbag (Zone 4).	1. (Zone 4) The broken sandbags were replaced on 18/10/2019.
	30 Oct 2019	Reminder: 1. Reminder of adequate mitigation to avoid waste water into public drain.	NA

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Parameters	Date	Observations and Recommendations	Follow-up
	7 Nov 2019	Observation: 1. Provide sandbag near site entrance	1. (Zone 3) Sandbags were placed to prevent wastewater leakage
	27 Nov 2019	Observation: 1. Prevent the water discharge from Channel in N.03 2. Prevent the water discharge to outside site area in site boundary in N.03	1. (N.03) U-channel was blocked. 2. (N.03) As Discussed with contractor's frontline staff, a proposed u-channel will be constructed ASAP.
Chemical and Waste Management	5 Sep 2019	Observation: 1. Chemicals should be placed on drip tray. 2. Clear the materials placed in front of the chemical waste storage area (Zone 3).	1. (Zone 2) Chemical drum was removed on 6/9/2019. 2. (Zone 3) Materials were cleared in front of the chemical waste storage area on 6/9/2019.
	11 Sep 2019	Observation: 1. Clear other site materials placed in front of the chemical waste storage area (Zone 3). 2. Frequently clear the waste materials (Zone 3).	1. (Zone 3) Bottles were cleared in front of the chemical waste storage area on 16/9/2019. 2. (Zone 3) Bottles were cleared on 16/9/2019.
	19 Sep 2019	Observation: 1. Chemicals should be placed on drip tray (Zone 3).	1. (Zone 3) Chemicals were removed on 23/9/2019.
	30 Oct 2019	Observation: 1. Remove stagnant water and oil in drip tray of power pack. Provide plug for drip tray (Zone 3).	1. (Zone 3) The power pack was off site on 30/10/2019.
	7 Nov 2019	Observation: Clear rubbish near entrance.	1. (Zone 4) The accumulated waste was removed.
Land Contamination	No deficiency was found during the reporting quarter.		
Landscape and Visual Impact	No deficiency was found during the reporting month.		
General Condition	7 Nov 2019	Observation: 1. Remove invalid CNP at site entrance	1. (Zone 3) The expired CNP was removed.



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

**6.1 Environmental Exceedance**

6.1.1 No project-related Action and Limit Level exceedance for 24-hr & 1-hr TSP and day time noise was recorded in the reporting period at all monitoring stations.

6.1.2 For night time construction noise monitoring, 9 exceedance cases were recorded between 2300 and 0700 of the next day during the reporting quarter. After ET’s further investigation, only 1 noise exceedance case on 27 Sep 2019 was project related. The other 8 exceedance cases should be related to background traffic noise. Number of exceedance in the reporting period was summarized in **Table 6.1** and **6.2**.

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

Monitoring Station		Number of exceedance in the reporting period							
		24-hour TSP				1-hour TSP			
		September 2019	October 2019	November 2019	Total	September 2019	October 2019	November 2019	Total
AMS 3A	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 4A	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 6	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0
AMS 7A	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0
AMS 12	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 15	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
Total	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0



**Table 6.2 Summary of Exceedance of Daytime Noise Monitoring in Reporting Period**

Monitoring Station <sup>1</sup>		Number of exceedance in the reporting period			
		Leq (30min)&(15min) dB(A)			Total
		Sep 2019	Oct 2019	Nov 2019	
NMS 1	AL	0	0	0	0
	LL	0	0	0	0
NMS 2	AL	0	0	0	0
	LL	0	0	0	0
NMS 3	AL	0	0	0	0
	LL	0	0	0	0
NMS 4	AL	0	0	0	0
	LL	0	0	0	0
NMS 5A	AL	0	0	0	0
	LL	0	0	0	0
NMS 6A	AL	0	0	0	0
	LL	0	0	0	0
NMS 7	AL	0	0	0	0
	LL	0	0	0	0
NMS 8	AL	0	0	0	0
	LL	0	0	0	0
NMS 9	AL	0	0	0	0
	LL	0	0	0	0
NMS 10A	AL	0	0	0	0
	LL	0	0	0	0
NMS 11	AL	0	0	0	0
	LL	0	0	0	0
NMS 12	AL	0	0	0	0
	LL	0	0	0	0
NMS 13	AL	0	0	0	0
	LL	0	0	0	0
NMS 14	AL	0	0	0	0
	LL	0	0	0	0
NMS 15	AL	0	0	0	0
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NMS 16	AL	0	0	0	0
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NMS 17	AL	0	0	0	0
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NMS 18	AL	0	0	0	0
	LL	0	0	0	0
NMS 19	AL	0	0	0	0
	LL	0	0	0	0
NMS 20	AL	0	0	0	0
	LL	0	0	0	0
NMS 23	AL	0	0	0	0
	LL	0	0	0	0
NMS 24	AL	0	0	0	0
	LL	0	0	0	0
NMS 25A	AL	0	0	0	0
	LL	0	0	0	0
NMS 26	AL	0	0	0	0
	LL	0	0	0	0
NMS 27	AL	0	0	0	0
	LL	0	0	0	0
Total	AL	0	0	0	0
	LL	0	0	0	0



**Table 6.3 Summary of Exceedance of Night-time Noise Monitoring in Reporting Period**

Monitoring Station <sup>1</sup>	Number of exceedance in the reporting period			Total
	Leq (30min)&(15min) dB(A)			
	Sep 2019	Oct 2019	Nov 2019	
NMS 1	0	0	0	0
NMS 2	0	0	0	0
NMS 3	0	0	0	0
NMS 4	1	0	0	1
NMS 5A	0	0	0	0
NMS 6A	0	0	0	0
NMS 7	0	0	0	0
NMS 8	0	0	0	0
NMS 9	0	0	0	0
NMS 11	0	0	0	0
NMS 13	0	0	0	0
NMS 14	0	0	0	0
NMS 15	0	0	0	0
NMS 16	0	0	0	0
NMS 18	0	0	0	0
NMS 19	0	0	0	0
NMS 20	0	0	0	0
NMS 23	0	0	0	0
NMS 24	0	0	0	0
NMS 25A	0	0	0	0
NMS 26	0	0	0	0
Total	1	0	0	1



### 6.2 Complaints, Notification of Summons and Prosecution

- 6.2.1 3 complaint cases regarding noise nuisance were received on 8/10/2019, 9/10/2019 and 6/11/2019 respectively. After ET's investigation, the complaint case on 8/10/2019, 9/10/2019 and 6/11/2019 should be related to the project construction activities.
- 6.2.2 The complaint case on 8/10/2019 near Wai Wah Centre was carrying the emergency road repair work at southbound of Tai Po Road outside Wai Wah Centre. Location of the emergency road work involving breaking and re-paving. The main contractor's PR / hotline staff was reminded to enhance communication with sufficient information provided for replying any enquiry / complaint in the future. The main contractor was also reminded that noise mitigation measures should be provided as far as practicable subject to the emergency situation.
- 6.2.3 A complaint on 9/10/2019 from a resident of Wo Che Estate. The complainant expressed concern of generator noise nuisance. The portable generator is supplying electric power to a 50 km/hr LED road sign and located nearby Wo Che Estate. The location sketch of the concerned portable generator and the Noise Sensitive Receiver (NSR) complainant's location at Wo Che Estate. Contractor will use a yellow sign board to instead of the VMS 50 km/hr LED road sign after the agreement at the TMLG meeting on 15<sup>th</sup> October 2019 one month later. The concerned portable generator will be no longer use after around 15<sup>th</sup> November 2019.
- 6.2.4 The Complaint on 6/11/2019 about noise nuisance of ground excavation starting at 10:30 p.m. at Wai Wah Centre. An emergency road repair work was carrying out at night on 5/11/2019 between 22:00 and 06:00 the next day at southbound slow lane of Tai Po Road outside Wai Wah Centre; there was breaking operation carried out between 22:25 and 22:50. The emergency road work was involving breaking and re-paving, thus, the complaint of ground excavation noise nuisance starting at 22:30 matches with the time of breaking operation. The main contractor had informed the management offices of the nearby NSRs in advance. The contractor was reminded to keep this practice of advance notification for emergency works in future as well.
- 6.2.5 No notification of summons or prosecution was received in the reporting period.
- 6.2.6 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix F**.

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## 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 G**.





## 8. CONCLUSIONS

- 8.1.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP was recorded in the reporting period at all monitoring stations.
- 8.1.2 Day time construction noise monitoring was carried out in the reporting quarter, no Action / Limit Level exceedance was recorded during the period. For night time construction noise monitoring, 9 exceedance cases were recorded between 2300 and 0700 of the next day during the reporting quarter. After ET's further investigation, as the dominant noise should be the background traffic noise, the noise exceedance cases were considered not project-related. 1 exceedance at NMS 4 on 27/9/2019 was project-related. Refer to ET site staff observation, the domain noise source should be construction noise. Two major construction works were carried out on 27th Sep 2019 which are light poles installation and road paving. All flaps and panels of asphalt paver were closed. Engine exhaust silencer and minimum 50mm thick absorbing lining to the engine compartments had been provided for the asphalt paver, Contractor complied the CNP No.: GW-RN0612-19 condition 3.d.10. Contractor was suggested to provide additional acoustic mat/ noise barrier between noise sources and NSRs to prevent noise nuisance.
- 8.1.3 3 complaint cases regarding noise nuisance were received on 8/10/2019, 9/10/2019 and 6/11/2019 respectively. After ET's investigation, the complaint case on 8/10/2019, 9/10/2019 and 6/11/2019 should be related to the project construction activities. The complaint case on 8/10/2019 near Wai Wah Centre was carrying the emergency road repair work at southbound of Tai Po Road outside Wai Wah Centre. Location of the emergency road work involving breaking and re-paving. The main contractor's PR / hotline staff was reminded to enhance communication with sufficient information provided for replying any enquiry / complaint in the future. The main contractor was also reminded that noise mitigation measures should be provided as far as practicable subject to the emergency situation. A complaint on 9/10/2019 from a resident of Wo Che Estate. The complainant expressed concern of generator noise nuisance. The portable generator is supplying electric power to a 50 km/hr LED road sign and located nearby Wo Che Estate. Contractor will use a yellow sign board to instead of the VMS 50 km/hr LED road sign after the agreement at the TMLG meeting on 15th October 2019 one month later. The Complaint on 6/11/2019 about noise nuisance of ground excavation starting at 10:30 p.m. at Wai Wah Centre. An emergency road repair work was carrying out at night on 5/11/2019 between 22:00 and 06:00 the next day at southbound slow lane of Tai Po Road outside Wai Wah Centre which was breaking operation carried out between 22:25 and 22:50. The emergency road work was involving breaking and re-paving, thus, the complaint of ground excavation noise nuisance starting at 22:30 matches with the time of breaking operation. The main contractor had informed the management offices of the nearby NSRs in advance. The contractor was reminded to keep this practice of advance notification for emergency works in future as well.
- 8.1.4 13 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.
- 8.1.5 Referring to the Contractor's information, no notification of summons and successful prosecution was received in the reporting period.

### ***Comment and Recommendations***



8.1.6 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.

8.1.7 According to the environmental audit performed in the reporting period, the following recommendations were made:

#### Air Quality Impact

- Cover the sandbags properly by impervious sheeting (Zone 2).
- Regular water spraying of site

#### Construction Noise Impact

- No specific observation was identified in the reporting period.

#### Water Quality Impact

- Increase the sedimentation efficiency of the sedimentation tank (N04).
- Prevent surface run-off from flowing outside the site boundary (Zone 1).
- Cover the sandbags properly by impervious sheeting (Zone 2).
- Reminder of adequate mitigation to avoid waste water into public drain.

#### Chemical and Waste Management

- Clear the waste materials in Zone 3 (RW 07).
- Waste Materials should be packed properly (Zone 2).

#### Land Contamination

- No specific observation was identified in the reporting period.

#### Landscape and Visual Impact

- Provide sufficient protection space for the OVTs in Zone 3.

#### General Condition

- No specific observation was identified in the reporting period.

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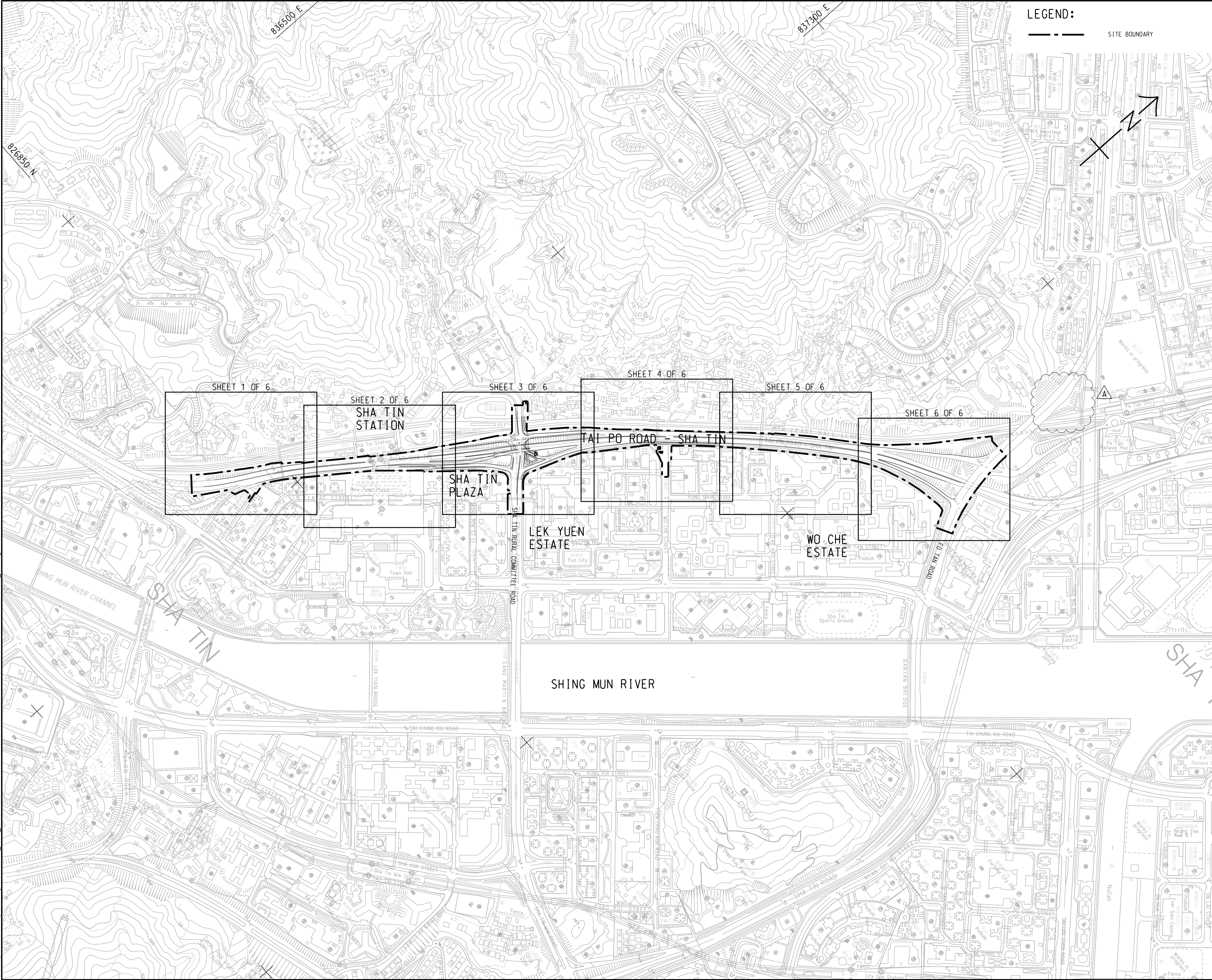
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## Figure 1 Project General Layout

Plot File by: aecom\p0163015\...  
 2/22/2018  
 PATH: p:\aecom\sp-pw\benley.com\AECOM\_DS2\_ASDocuments\60481656\_WTP-STCAD\_PRODUCTION\DRAWING\CONTRACT\11000\C1\_1000.dgn  
 Project Management Initials: Designer: FMS Checked: BCC Approved: CWN  
 ISO A1 594mm x 841mm



**LEGEND:**  
 --- SITE BOUNDARY

**AECOM**

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

**CLIENT**  
 土木工程拓展署  
**CEDD** Civil Engineering and Development Department

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 分列工程顧問公司

**ISSUE/REVISION**

I/R	DATE	DESCRIPTION	CHK.
A	FEB. 18	TENDER ADDENDUM NO.2	BBC
-	JAN. 18	TENDER DRAWING	BCC

**STATUS**  
 階段

**SCALE**  
 比例  
 A1 1:4000

**DIMENSION UNIT**  
 尺寸單位  
 METRES

**KEY PLAN**  
 索引圖  
**FIGURE 1.1a**

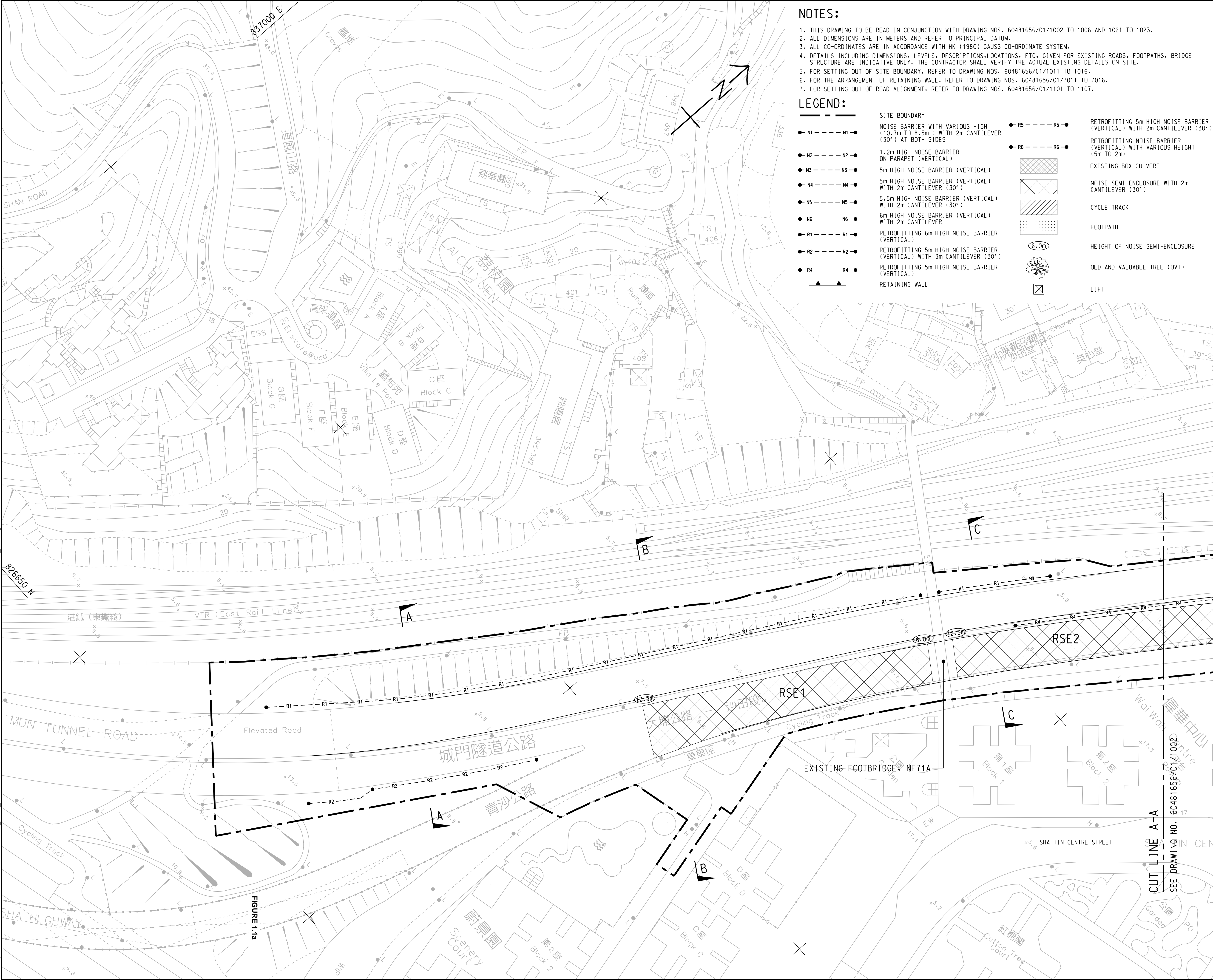
**CONTRACT NO.**  
 合約編號  
 NE/2017/05

**SHEET TITLE**  
 圖紙名稱  
**KEY PLAN**  
**FIGURE 1.1a**

**SHEET NUMBER**  
 圖紙編號  
 60481656/C1/1000A

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 Project Management Initials: Designer: FMSC Checked: BCC Approved: CWN  
 ISO A1 594mm x 841mm  
 CNY



**NOTES:**

- THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60481656/C1/1002 TO 1006 AND 1021 TO 1023.
- ALL DIMENSIONS ARE IN METERS AND REFER TO PRINCIPAL DATUM.
- ALL CO-ORDINATES ARE IN ACCORDANCE WITH HK (1980) GAUSS CO-ORDINATE SYSTEM.
- DETAILS INCLUDING DIMENSIONS, LEVELS, DESCRIPTIONS, LOCATIONS, ETC. GIVEN FOR EXISTING ROADS, FOOTPATHS, BRIDGE STRUCTURE ARE INDICATIVE ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL EXISTING DETAILS ON SITE.
- FOR SETTING OUT OF SITE BOUNDARY, REFER TO DRAWING NOS. 60481656/C1/1011 TO 1016.
- FOR THE ARRANGEMENT OF RETAINING WALL, REFER TO DRAWING NOS. 60481656/C1/7011 TO 7016.
- FOR SETTING OUT OF ROAD ALIGNMENT, REFER TO DRAWING NOS. 60481656/C1/1101 TO 1107.

**LEGEND:**

<ul style="list-style-type: none"> <li>● N1 --- N1 ● NOISE BARRIER WITH VARIOUS HIGH (10.7m TO 8.5m) WITH 2m CANTILEVER (30°) AT BOTH SIDES</li> <li>● N2 --- N2 ● 1.2m HIGH NOISE BARRIER ON PARAPET (VERTICAL)</li> <li>● N3 --- N3 ● 5m HIGH NOISE BARRIER (VERTICAL)</li> <li>● N4 --- N4 ● 5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)</li> <li>● N5 --- N5 ● 5.5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)</li> <li>● N6 --- N6 ● 6m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER</li> <li>● R1 --- R1 ● RETROFITTING 6m HIGH NOISE BARRIER (VERTICAL)</li> <li>● R2 --- R2 ● RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 3m CANTILEVER (30°)</li> <li>● R4 --- R4 ● RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL)</li> <li>▲▲▲ RETAINING WALL</li> </ul>	<ul style="list-style-type: none"> <li>● R5 --- R5 ● RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)</li> <li>● R6 --- R6 ● RETROFITTING NOISE BARRIER HEIGHT (5m TO 2m)</li> <li>EXISTING BOX CULVERT</li> <li>NOISE SEMI-ENCLOSURE WITH 2m CANTILEVER (30°)</li> <li>CYCLE TRACK</li> <li>FOOTPATH</li> <li>6.0m HEIGHT OF NOISE SEMI-ENCLOSURE</li> <li>OLD AND VALUABLE TREE (OVT)</li> <li>LIFT</li> </ul>
--	--



**PROJECT**  
項目

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

**CLIENT**  
業主  
 土木工程拓展署  
 Civil Engineering and Development Department

**CONSULTANT**  
工程顧問公司  
 AECOM Asia Company Ltd.  
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**ISSUE/REVISION**  
修訂

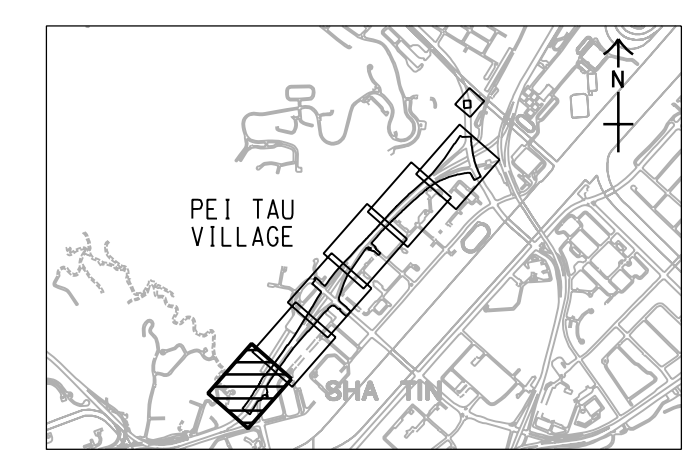
I/R	DATE	DESCRIPTION	CHK.
-	JAN. 18	TENDER DRAWING	BCC

**STATUS**  
階段

**SCALE**  
比例  
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**DIMENSION UNIT**  
尺寸單位  
METRES

**KEY PLAN** A1 1:40000  
索引圖



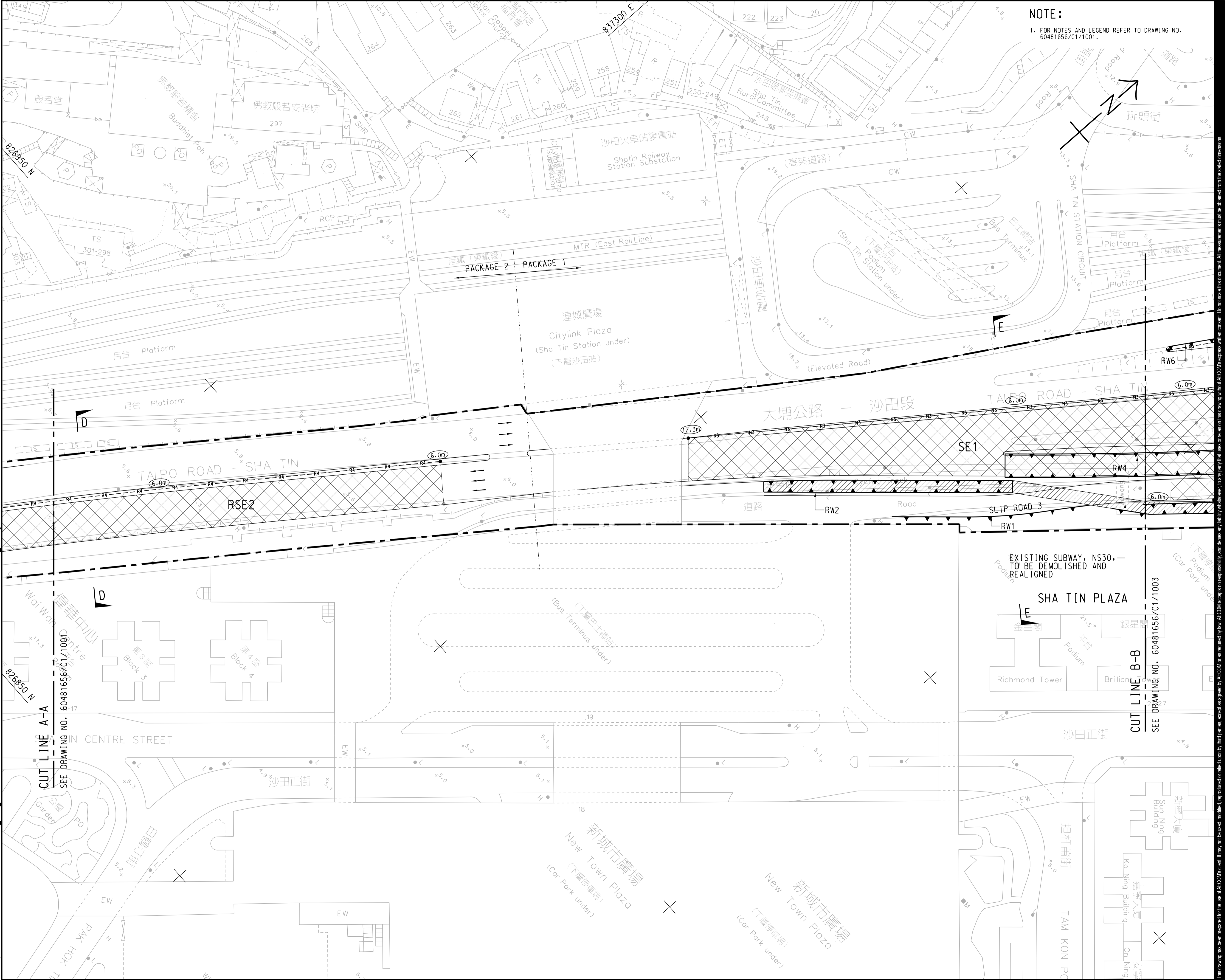
**CONTRACT NO.**  
合約編號  
60481656 NE/2017/05

**SHEET TITLE**  
圖紙名稱  
GENERAL LAYOUT PLAN  
FIGURE 1.1 b

**SHEET NUMBER**  
圖紙編號  
60481656/C1/1001

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 ISO A1 594mm x 841mm



NOTE:  
1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60481656/C1/1001.



PROJECT  
項目

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

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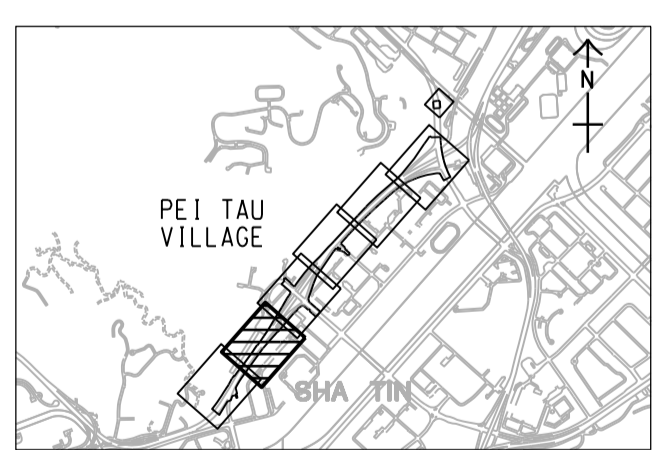
ISSUE/REVISION  
修訂

I/R	DATE	DESCRIPTION	CHK.
-	JAN. 18	TENDER DRAWING	BCC

STATUS  
階段

SCALE  
比例

KEY PLAN  
索引圖



CONTRACT NO.  
合約編號

SHEET TITLE  
圖紙名稱

GENERAL LAYOUT PLAN

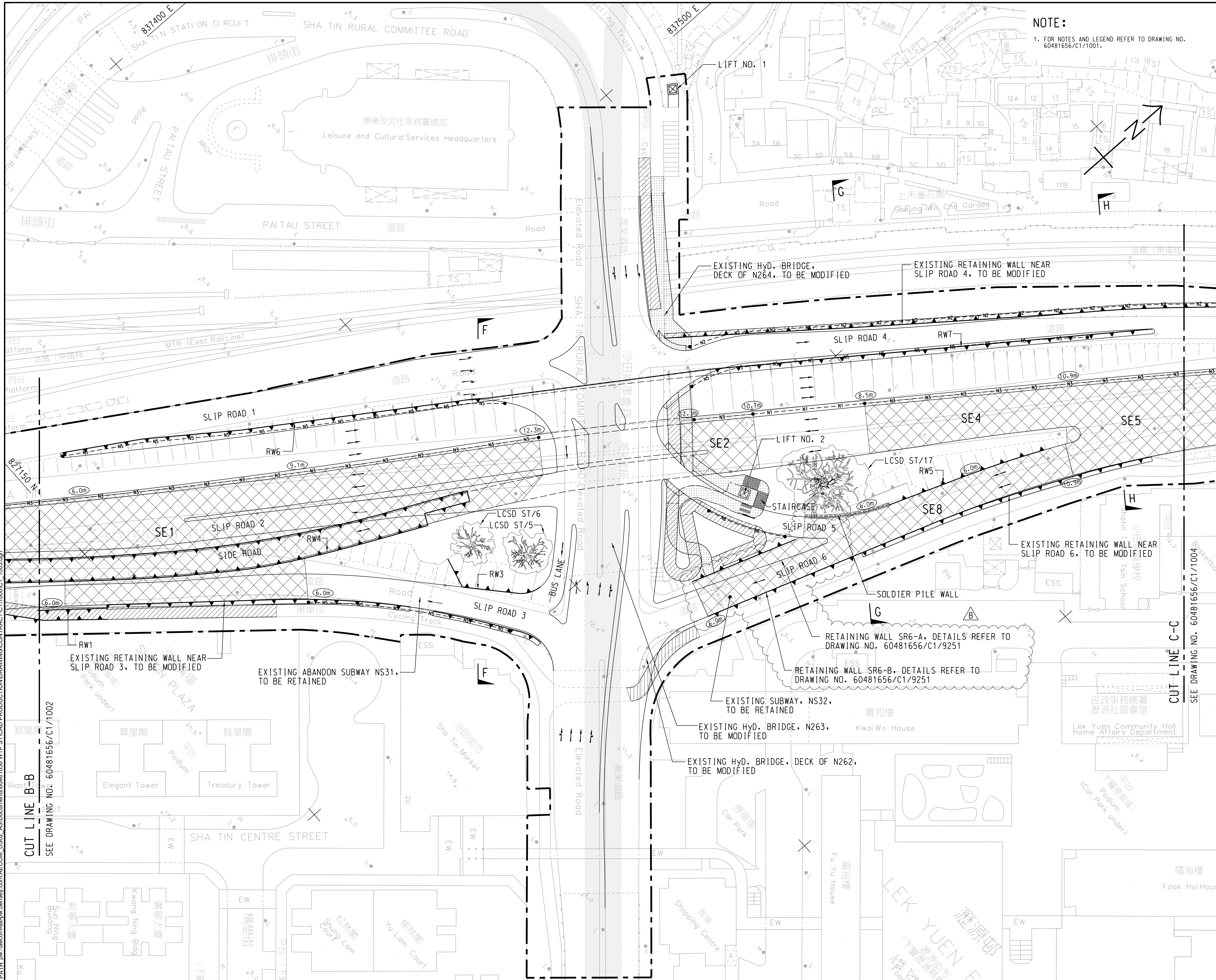
FIGURE 1.1b

SHEET NUMBER  
圖紙編號

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 ISO A1 594mm x 841mm



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**PROJECT**  
 項目  
**ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**

**CLIENT**  
 業主  
 土木工程拓展署  
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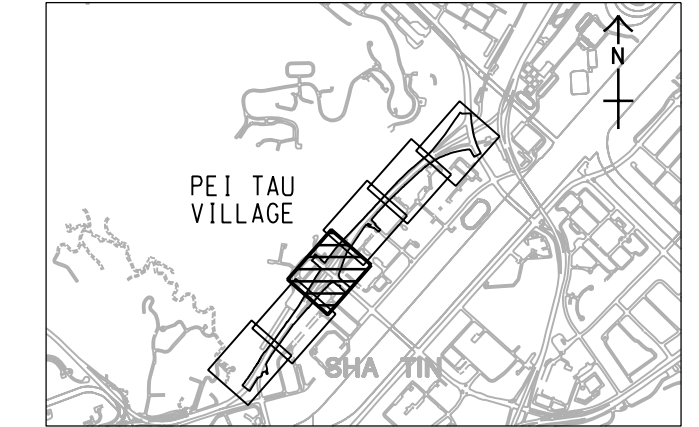
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-	JAN. 18	TENDER DRAWING	BCC

**STATUS**  
 階段

**SCALE**  
 比例  
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**DIMENSION UNIT**  
 尺寸單位  
 METRES

**KEY PLAN** A1 1:40000  
 索引圖



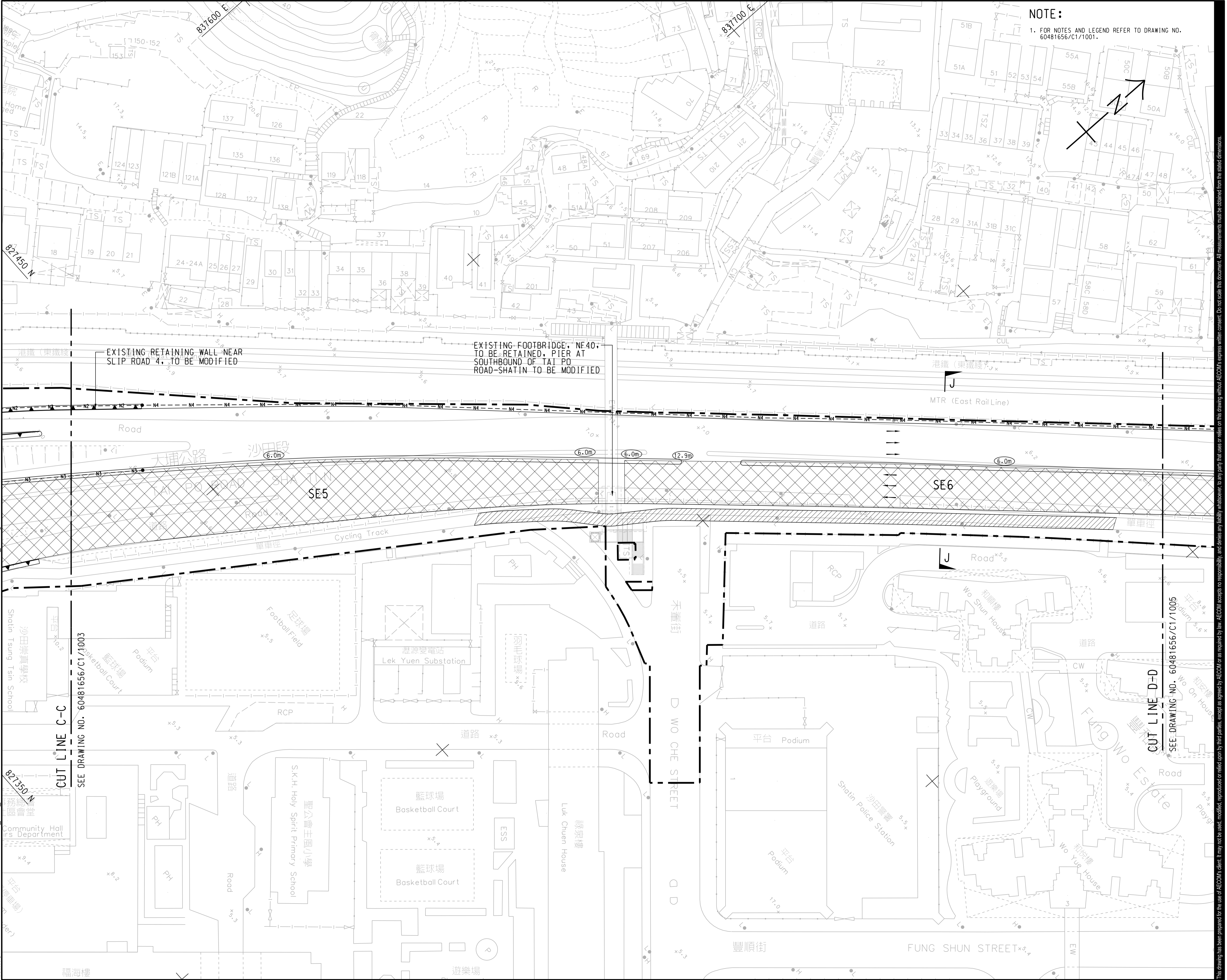
**CONTRACT NO.**  
 合約編號  
 NE/2017/05

**SHEET TITLE**  
 圖紙名稱  
**GENERAL LAYOUT PLAN**  
**FIGURE 1.1 b**

**SHEET NUMBER**  
 圖紙編號  
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PROJECT  
ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)

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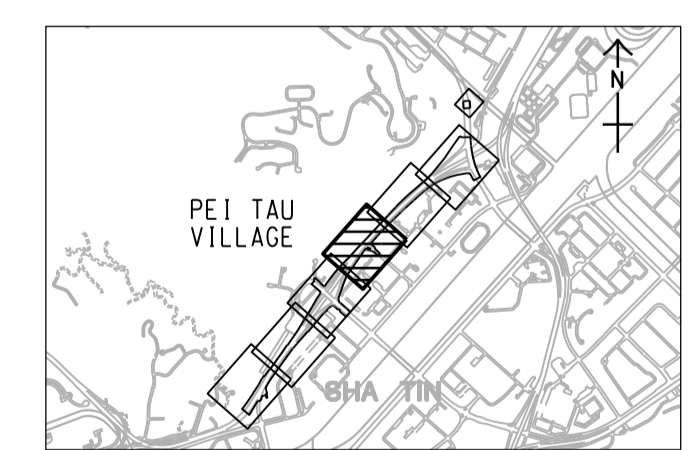
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-	JAN. 18	TENDER DRAWING	BCC

SCALE  
A1 1:500

DIMENSION UNIT  
METRES

KEY PLAN A1 1:40000



CONTRACT NO.  
NE/2017/05

SHEET TITLE  
GENERAL LAYOUT PLAN  
FIGURE 1.1b

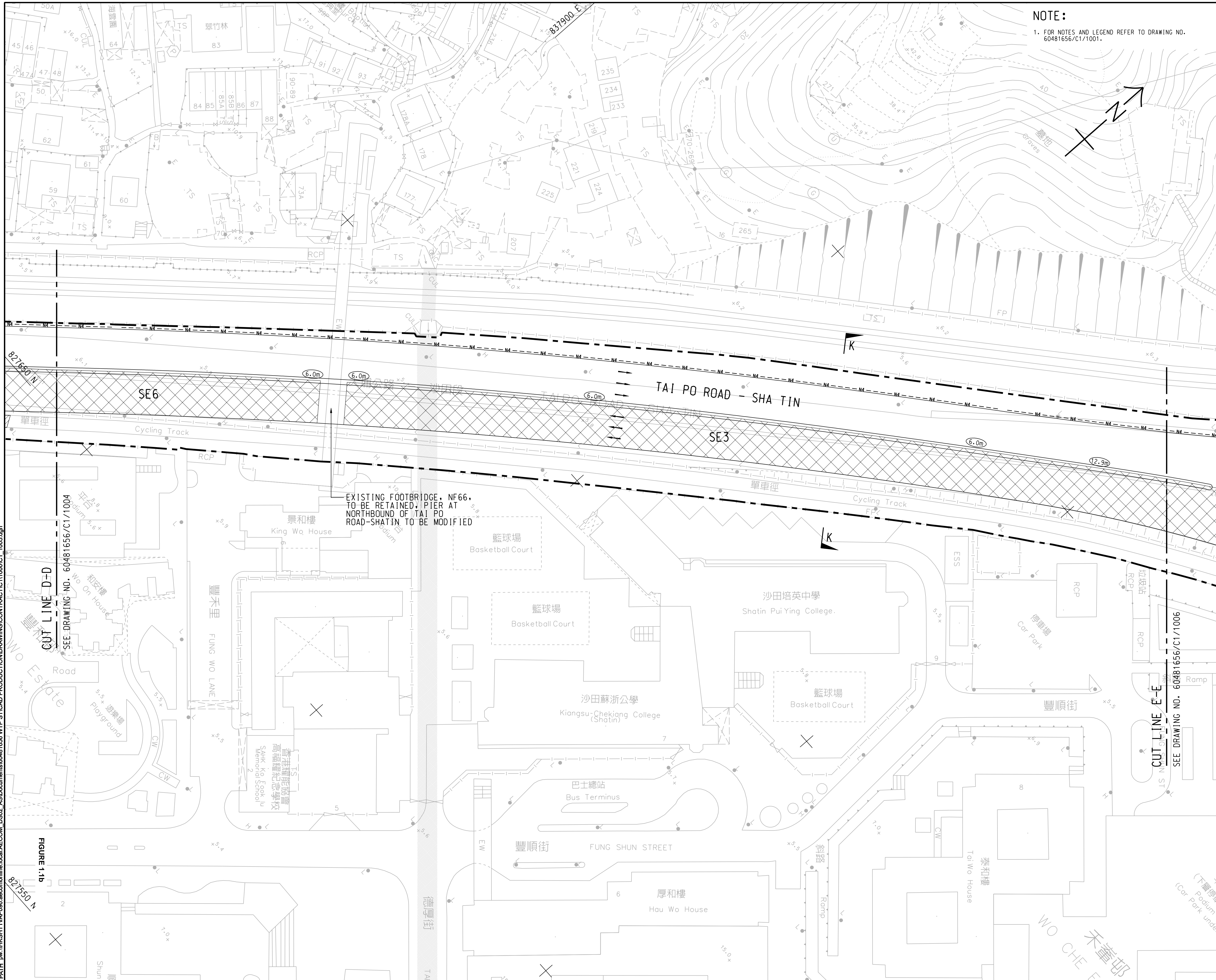
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 Project Management Initials: Designer: FMSC Checked: BCC Approved: CWN  
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**PROJECT**  
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**ROAD WIDENING AND RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**

**CLIENT**  
 業主

**CEDD** 土木工程拓展署  
 Civil Engineering and Development Department

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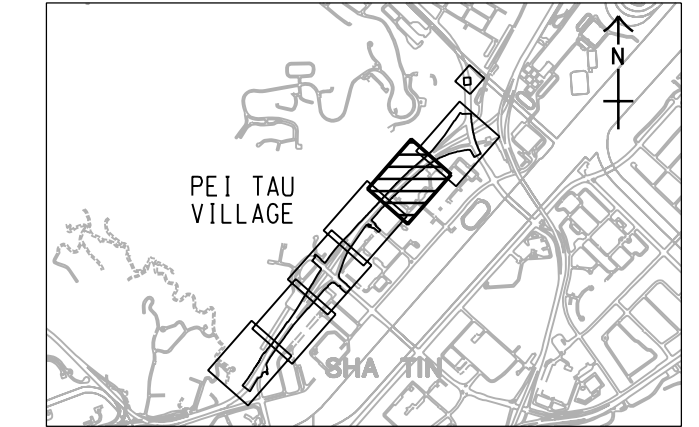
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 階段

**SCALE**  
 比例

A1 1: 500

**DIMENSION UNIT**  
 尺寸單位

METRES



**CONTRACT NO.**  
 合約編號

NE/2017/05

**SHEET TITLE**  
 圖紙名稱

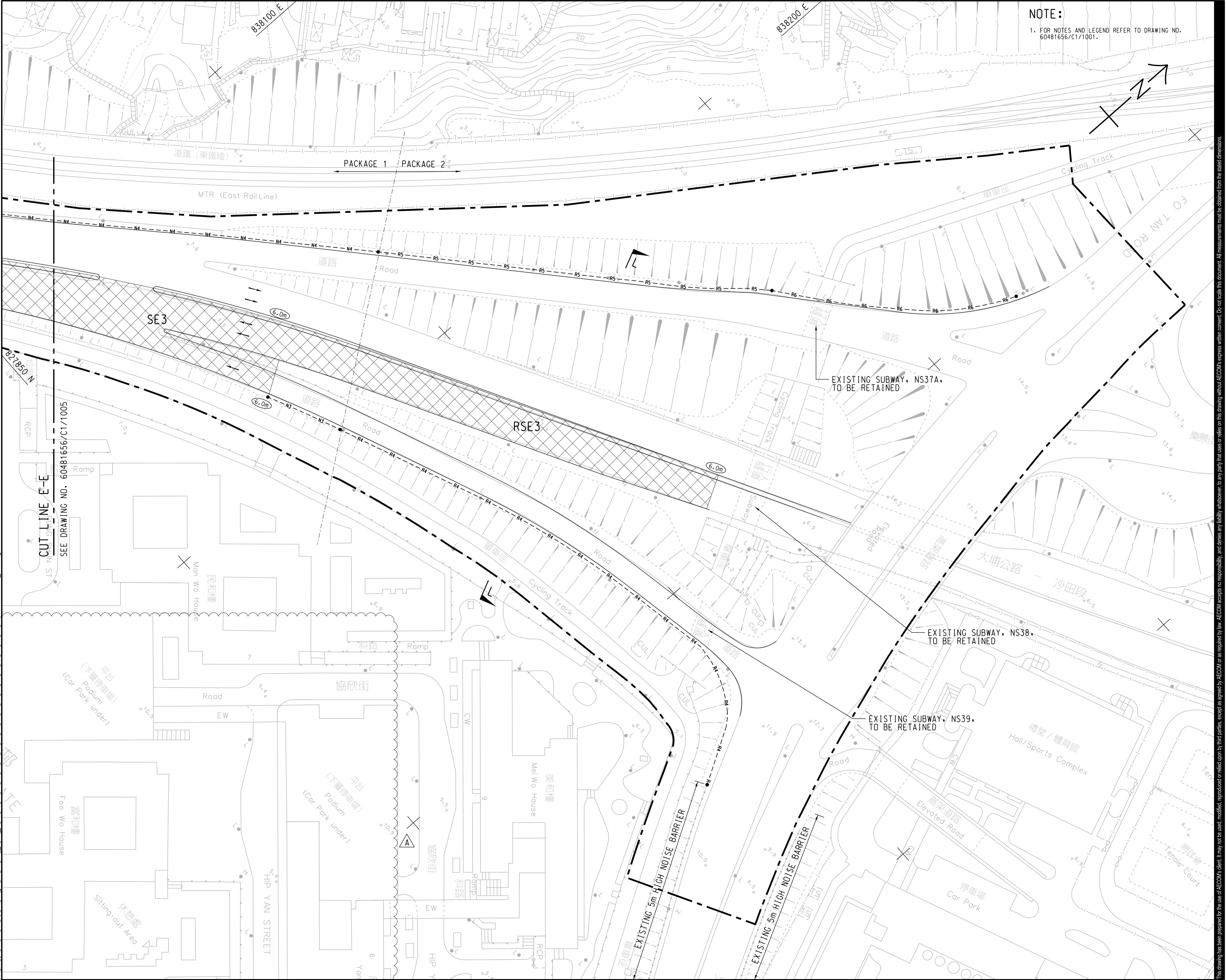
GENERAL LAYOUT PLAN  
 FIGURE 1.1b

**SHEET NUMBER**  
 圖紙編號

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**PROJECT**  
 項目

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

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-	JAN. 18	TENDER DRAWING	BCC

**STATUS**  
 階段

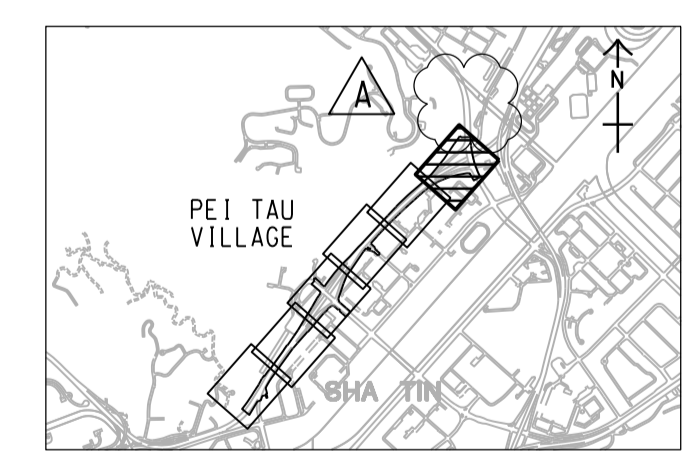
**SCALE**  
 比例

A1 1:500

**DIMENSION UNIT**  
 尺寸單位

METRES

**KEY PLAN** A1 1:40000  
 索引圖



**CONTRACT NO.**  
 合約編號

NE/2017/05

**SHEET TITLE**  
 圖紙名稱

GENERAL LAYOUT PLAN  
 FIGURE 1.1b

SHEET 6 OF 6

**SHEET NUMBER**  
 圖紙編號

60481656/C1/1006A

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Website : [www.fugro.com](http://www.fugro.com)



## Figure 2a

### Air Monitoring Locations

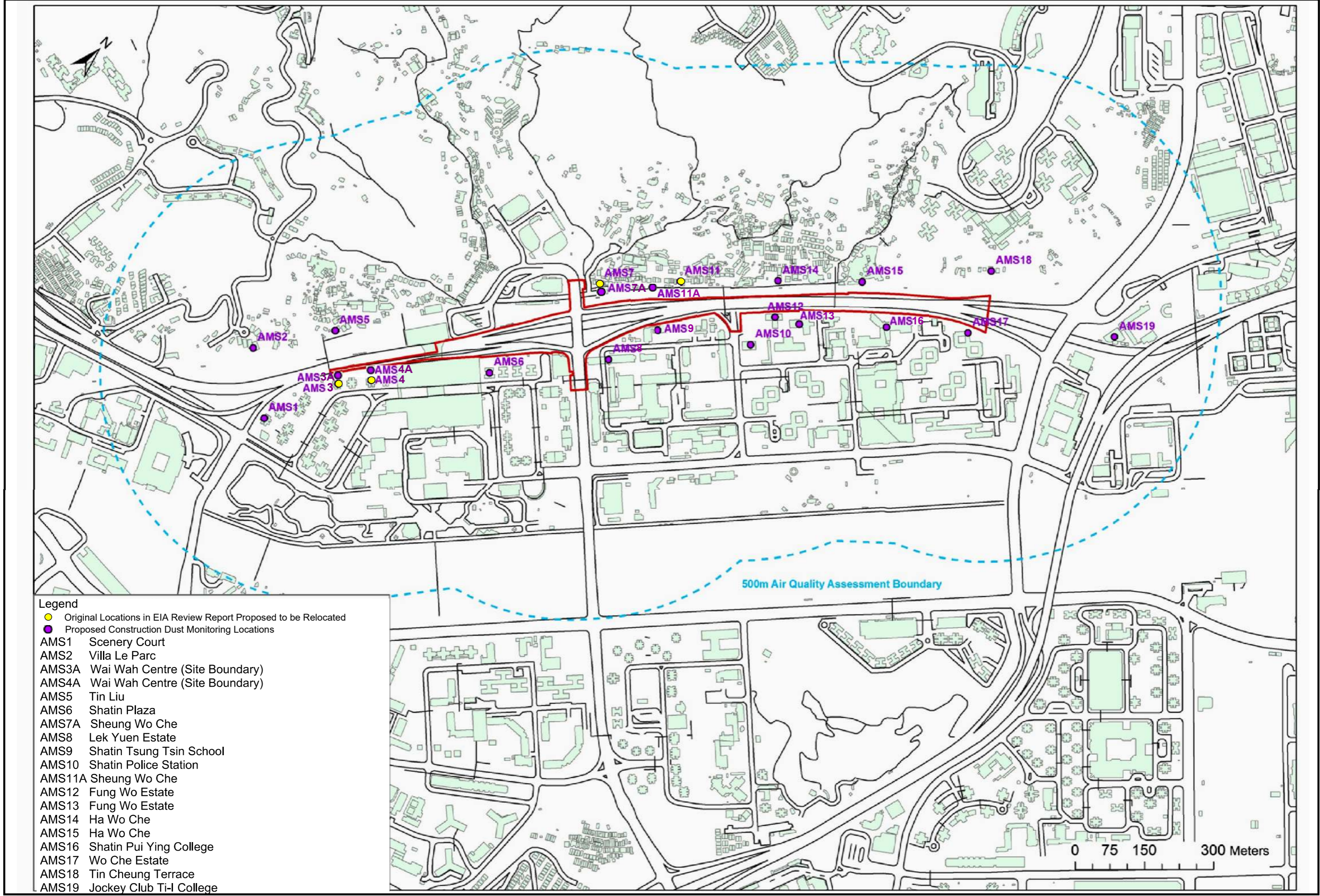


Figure 2a Air Quality Monitoring Locations

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Website : [www.fugro.com](http://www.fugro.com)



## Figure 2b

### Noise Monitoring Locations

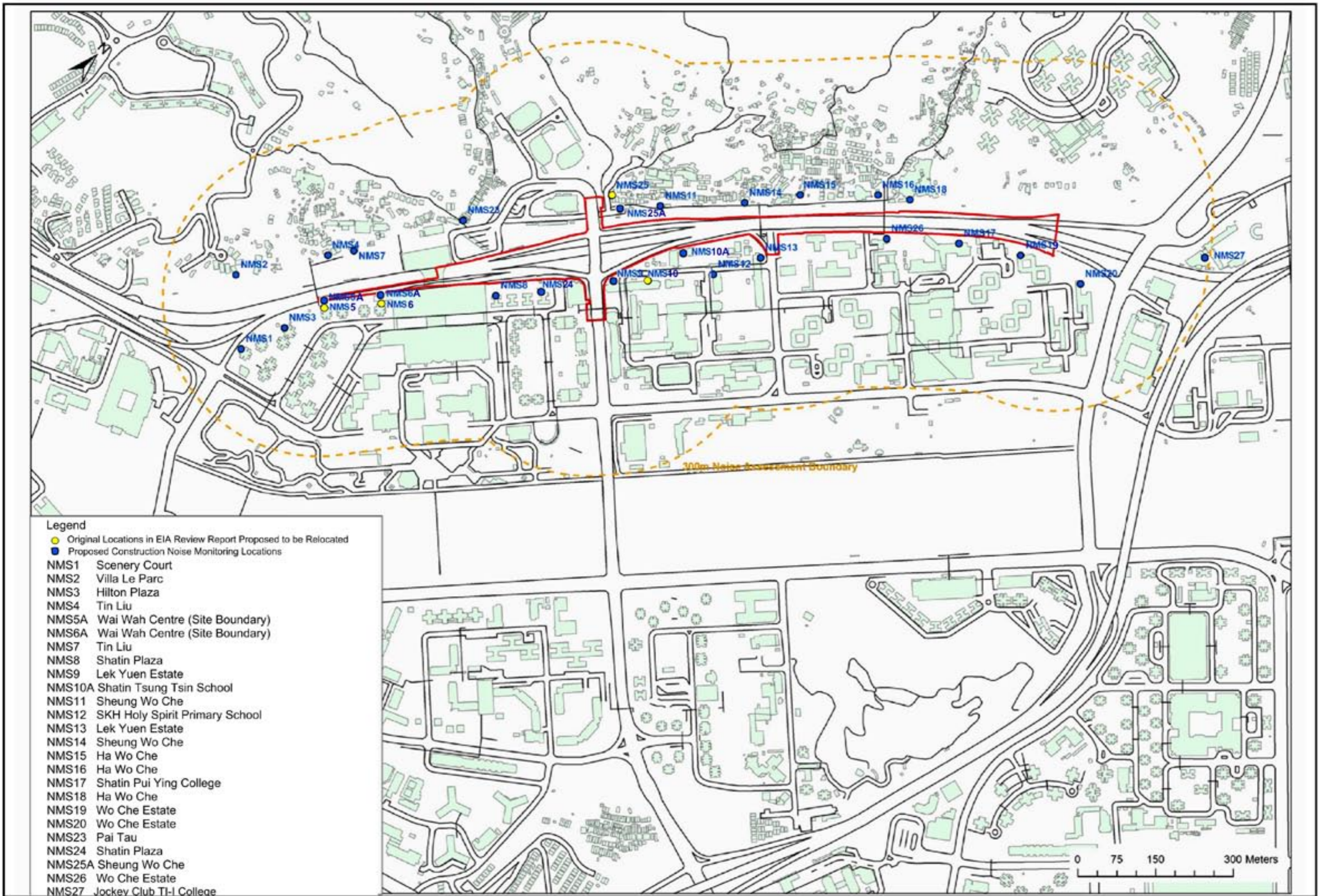


Figure 2b Noise Monitoring Locations

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Website : [www.fugro.com](http://www.fugro.com)



## Appendix A

### Construction Programme



Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019				
								Aug 14	Sep 15	Oct 16	Nov 17	Dec 18
<b>Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road</b>												
<b>PRELIMINARIES &amp; GENERAL REQUIREMENT</b>												
<b>GENERAL SUBMISSION</b>												
SUB1200	Hoarding Plan	0	0	31-Aug-19*		31-Mar-19						
SUB1343	TCSS Configuration Management	0	0	31-Aug-19*		31-Mar-19						
SUB1347	Lift Installation - Design Data	0	0	31-Aug-19*		31-Mar-19						
SUB1403	ITP's for Lighting Luminaires and System	0	0	31-Aug-19*		31-Mar-19						
SUB1405	All Lighting Designs	0	0	31-Aug-19*		31-Mar-19						
SUB1410	Combined Services Drawings (CSD)	0	0	31-Aug-19*		31-Mar-19						
<b>DESIGN SUBMISSION</b>												
<b>STRCH INTERCHANGE MODIFICATION WORKS (Alternative Design)</b>												
DES1070	PM Consent for Construction	28	1	06-Nov-18 A	31-Aug-19	20-Feb-19	19-Mar-19					
DES1110	PM Consent for Construction	28	20	03-Apr-19 A	19-Sep-19	29-Apr-19	26-May-19					
DES1150	PM Consent for Construction	28	20	03-May-19 A	19-Sep-19	22-Apr-19	20-May-19					
<b>NOISE MITIGATION MEASURES</b>												
DES1190	PM Consent for Construction	28	8	25-Jun-19 A	08-Sep-19	04-Apr-19	02-May-19					
DES1230	PM Consent for Construction	28	4	02-Jan-19 A	04-Sep-19	31-Jan-19	27-Feb-19					
DES1250	PM review & comment	28	26	12-Jul-19 A	25-Sep-19	05-Apr-19	02-May-19					
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	23	26-Sep-19	19-Oct-19	04-May-19	26-May-19					
DES1270	PM Consent for Construction	28	28	19-Oct-19	16-Nov-19	27-May-19	23-Jun-19					
DES1280	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate	21	0	14-Jan-19 A	07-Aug-19 A	05-Feb-19	25-Feb-19					
DES1290	PM review & comment	28	27	07-Aug-19 A	26-Sep-19	08-Apr-19	05-May-19					
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	27-Sep-19	17-Oct-19	07-May-19	26-May-19					
DES1310	PM Consent for Construction	28	28	17-Oct-19	14-Nov-19	27-May-19	23-Jun-19					
DES1320	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	0	20-Mar-19 A	07-Aug-19 A	08-Apr-19	28-Apr-19					
DES1330	PM review & comment	28	27	07-Aug-19 A	26-Sep-19	26-Apr-19	24-May-19					

	Remaining Level of Effort		Remaining Work
	Actual Level of Effort		Critical Remaining Work
	Primary Baseline		Milestone
	Actual Work		Baseline Milestone

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/08/19)**  
Page 1 of 7

Date	Revision	Check...	Approved
07-Sep-19	3MRP DWP 1908	Tim	



Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019							
								Aug 14	Sep 15	Oct 16	Nov 17	Dec 18			
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	27-Sep-19	18-Oct-19	25-May-19	15-Jun-19								
DES1350	PM Consent for Construction	28	28	18-Oct-19	15-Nov-19	15-Jun-19	13-Jul-19								
DES1360	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	21	0	20-Mar-19 A	07-Aug-19 A	26-Apr-19	17-May-19								
DES1370	PM review & comment	28	27	07-Aug-19 A	26-Sep-19	15-May-19	12-Jun-19								
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	27-Sep-19	17-Oct-19	13-Jun-19	03-Jul-19								
DES1390	PM Consent for Construction	28	28	17-Oct-19	14-Nov-19	03-Jul-19	31-Jul-19								
<b>REMAINING WORKS</b>															
DES1430	PM Consent for Construction	28	8	11-Jan-19 A	08-Sep-19	04-Mar-19	31-Mar-19								
DES1470	PM Consent for Construction	28	20	11-Mar-19 A	19-Sep-19	11-May-19	07-Jun-19								
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign	21	4	26-Nov-18 A	04-Sep-19	31-Dec-18	20-Jan-19								
DES1490	PM review & comment	28	25	25-Jan-19 A	29-Sep-19	05-Apr-19	02-May-19								
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry	35	35	30-Sep-19	04-Nov-19	04-May-19	07-Jun-19								
DES1510	PM Consent for Construction	28	28	04-Nov-19	02-Dec-19	08-Jun-19	05-Jul-19								
DES1530	PM review & comment	28	1	02-Jan-19 A	31-Aug-19	31-Jan-19	27-Feb-19								
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	31-Aug-19	02-Apr-19	03-May-19								
DES1550	PM Consent for Construction	28	21	21-Jan-19 A	21-Sep-19	04-May-19	31-May-19								
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	31-Aug-19	04-Oct-19	31-Mar-19	04-May-19								
DES1570	PM review & comment	28	28	05-Oct-19	01-Nov-19	05-May-19	01-Jun-19								
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Nov-19	04-Dec-19	03-Jun-19	04-Jul-19								
<b>SUBLETTING &amp; PROCUREMENT SCHEDULE</b>															
<b>SUBLETTING</b>															
SPS1000	Maintenance of Traffic Flow	30	30	01-Sep-19	30-Sep-19	31-Mar-19	29-Apr-19								
SPS1030	Hoarding and Signboard	30	30	31-Aug-19	29-Sep-19	31-Mar-19	29-Apr-19								
SPS1060	Security System of the Site	30	30	31-Aug-19	29-Sep-19	31-Mar-19	29-Apr-19								
SPS1140	Site Clearance and Demolition Work	30	30	02-Sep-19	01-Oct-19	07-Apr-19	06-May-19								
SPS1160	Monitoring and Instrumentation	30	30	02-Sep-19	01-Oct-19	07-Apr-19	06-May-19								
SPS1200	Waterwork (Pipework)	30	30	31-Aug-19	29-Sep-19	31-Mar-19	29-Apr-19								
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	30-Oct-19	28-Nov-19	31-May-19	29-Jun-19								
SPS1220	CCTV for Drainage Pipe	30	30	31-Aug-19	29-Sep-19	01-Apr-19	30-Apr-19								
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	01-Sep-19	30-Sep-19	31-Mar-19	29-Apr-19								

	Remaining Level of Effort		Remaining Work
	Actual Level of Effort		Critical Remaining Work
	Primary Baseline		Milestone
	Actual Work		Baseline Milestone

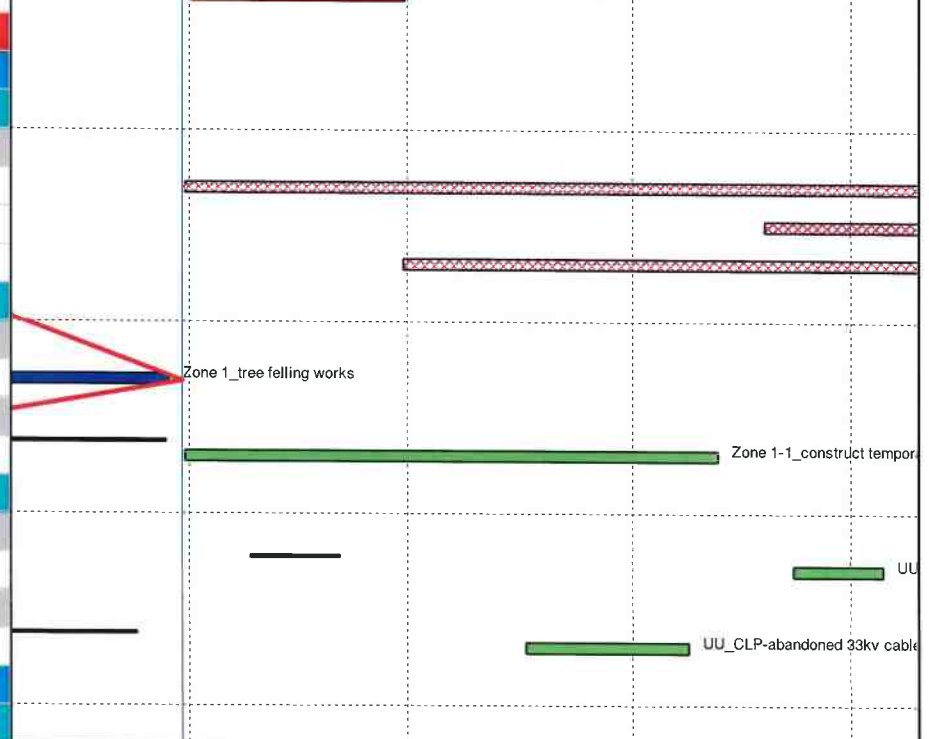
**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI  
PO ROAD (SHA TIN SECTION)  
3 Months Rolling Programme (31/08/19)  
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Date	Revision	Check...	Approved
07-Sep-19	3MRP DWP 1908	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019					
								Aug 14	Sep 15	Oct 16	Nov 17	Dec 18	
SPS1250	Reinforced Concrete Work for Noise Mitigation Measures	30	30	01-Sep-19	30-Sep-19	31-Mar-19	29-Apr-19						
SPS1260	Reinforced Concrete Work for Bridge Work	30	30	31-Aug-19	29-Sep-19	28-Apr-19	28-May-19						
SPS1270	Reinforced Concrete Work for Pedestrian Lift	30	30	27-Nov-19	27-Dec-19	30-Jun-19	29-Jul-19						
SPS1280	Reinforced Concrete Work for Footbridge NF40 & NF66	30	30	02-Oct-19	31-Oct-19	23-May-19	22-Jun-19						
SPS1290	Steelwork for NB and Lift Tower	30	30	31-Aug-19	29-Sep-19	24-Apr-19	23-May-19						
SPS1310	Bearing and Movement Joint	30	30	29-Sep-19	28-Oct-19	01-May-19	31-May-19						
SPS1320	Tendon Works	30	30	29-Sep-19	28-Oct-19	01-May-19	31-May-19						
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	30	08-Oct-19	07-Nov-19	02-May-19	31-May-19						
SPS1420	Lighting System for Noise Mitigation Measures	30	30	31-Aug-19	29-Sep-19	12-Jul-19	10-Aug-19						
SPS1440	Drainage for Noise Mitigation Measures	30	30	31-Aug-19	29-Sep-19	12-Jul-19	10-Aug-19						
SPS1460	Waterproofing (Bitumen Paint)	30	30	01-Sep-19	30-Sep-19	06-Apr-19	05-May-19						

**WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZON**

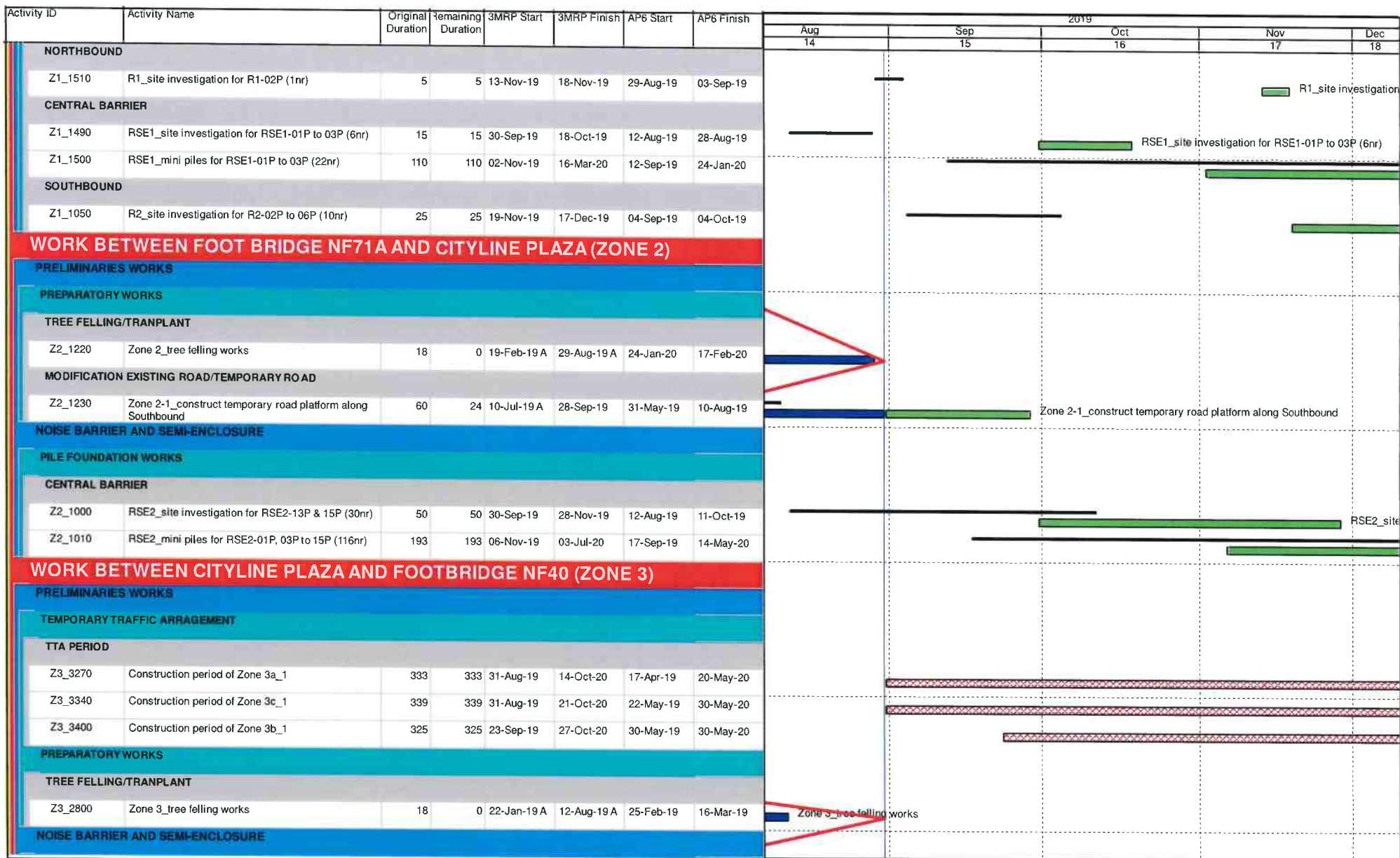
PRELIMINARIES WORKS							
TEMPORARY TRAFFIC ARRANGEMENT							
TTA PERIOD							
Z1_1410	Construction Zone 1_Stage 1 Northbound R1 structure	300	300	31-Aug-19	03-Sep-20	19-Jun-19	20-Jun-20
Z1_1420	Construction Zone 1_Stage 1 Southbound R2 structure	374	374	19-Nov-19	23-Feb-21	04-Sep-19	07-Dec-20
Z1_1430	Construction Zone 1_Stage 1 Central Barrier structure	304	304	30-Sep-19	08-Oct-20	12-Aug-19	18-Aug-20
PREPARATORY WORKS							
TREE FELLING/TRANPLANT							
Z1_1290	Zone 1_tree felling works	18	0	25-Jan-19 A	29-Aug-19 A	11-Mar-19	01-Apr-19
MODIFICATION EXISTING ROAD/TEMPORARY ROAD							
Z1_1270	Zone 1-1_construct temporary road platform along Northbound for R1	60	60	31-Aug-19	12-Nov-19	19-Jun-19	28-Aug-19
UTILITIES DIVERSION							
NORTHBOUND							
Z1_1330	UU_CLP-abandoned 33kv cable for R1 & R2 CH1075 30m	11	11	23-Nov-19	05-Dec-19	09-Sep-19	21-Sep-19
CENTRAL BARRIER							
Z1_1300	UU_CLP-abandoned 33kv cable for RSE1 CH1190-1300 110m	20	20	17-Oct-19	08-Nov-19	02-Aug-19	24-Aug-19
NOISE BARRIER AND SEMI-ENCLOSURE							
PILE FOUNDATION WORKS							



	Remaining Level of Effort		Remaining Work
	Actual Level of Effort		Critical Remaining Work
	Primary Baseline		Milestone
	Actual Work		Baseline Milestone

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI  
PO ROAD (SHA TIN SECTION)  
3 Months Rolling Programme (31/08/19)  
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Date	Revision	Check...	Approved
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-  Remaining Level of Effort
-  Remaining Work
-  Actual Level of Effort
-  Critical Remaining Work
-  Primary Baseline
-  Milestone
-  Actual Work
-  Baseline Milestone

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/08/19)**  
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Date	Revision	Check...	Approved
07-Sep-19	3MRP DWP 1908	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019							
								Aug 14	Sep 15	Oct 16	Nov 17	Dec 18			
<b>PILE FOUNDATION WORKS</b>															
<b>SOUTHBOUND</b>															
Z3_1530	SE1-6_site investigation for S1E6-51P (2nr)	10	10	20-Nov-19	30-Nov-19	27-Jul-19	08-Aug-19								
<b>BRIDGE AND STRUCTURE WORKS</b>															
<b>PRELIMINARIES WORKS</b>															
<b>UTILITIES DIVERSION</b>															
<b>NORTHBOUND</b>															
Z3_2910	UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 50m	13	13	31-Aug-19	16-Sep-19	03-Apr-19	18-Apr-19								
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	34	34	17-Sep-19	28-Oct-19	16-Apr-19	31-May-19								
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m	22	22	02-Oct-19	28-Oct-19	04-May-19	31-May-19								
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23	23	03-Oct-19	31-Oct-19	03-May-19	31-May-19								
<b>SOUTHBOUND</b>															
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127	127	31-Aug-19	05-Feb-20	01-Apr-19	04-Sep-19								
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 CH1710-1950 240m	35	35	20-Sep-19	01-Nov-19	24-Apr-19	05-Jun-19								
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1850 210m	51	51	31-Aug-19	01-Nov-19	01-Apr-19	05-Jun-19								
Z3_3070	UU_HKT-diversion cable for SR2 & N263 CH1630-1840 210m	39	39	16-Sep-19	01-Nov-19	16-Apr-19	05-Jun-19								
Z3_3110	UU_GAS-diversion LP pipe for N263 CH1825-1960 135m	38	38	17-Sep-19	01-Nov-19	17-Apr-19	05-Jun-19								
Z3_3120	UU_Fresh watermain for Staircase & N263 150PE	23	23	25-Nov-19	20-Dec-19	29-Jun-19	26-Jul-19								
<b>WIDENING FOR NORTH HOLLOW ABUTMENT (N264)</b>															
Z3_4200	C01_ELS & footing construction	45	45	31-Aug-19	26-Oct-19	05-Apr-19	04-Jun-19								
Z3_4210	C01_column construction	40	40	26-Oct-19	12-Dec-19	04-Jun-19	23-Jul-19								
Z3_4220	N264_modification existing MTRC fencing for deck widening	60	60	31-Aug-19	13-Nov-19	05-Apr-19	22-Jun-19								
Z3_4240	N264_temporary protection MTRC cable	45	45	26-Oct-19	18-Dec-19	04-Jun-19	29-Jul-19								
<b>MODIFICATION OF BRIDGE N263</b>															
<b>RECONSTRUCTION ABUTMENT WALL AT NHA</b>															
Z3_4100	Demolish part of existing NHA wall for construction new wall	60	60	31-Aug-19*	12-Nov-19	17-Apr-19	03-Jul-19								
Z3_4110	NAW-1_construct ELS & piling platform	42	42	31-Aug-19*	22-Oct-19	17-Apr-19	11-Jun-19								
Z3_4120	NAW-1_piling works for new NHA wall 5nr 1.5m bored pile	70	70	23-Oct-19	15-Jan-20	12-Jun-19	02-Sep-19								
Z3_4150	NAW-2_construct ELS & piling platform	42	42	31-Aug-19	22-Oct-19	17-Apr-19	11-Jun-19								
Z3_4160	NAW-2_piling works for new NHA wall 4nr 1.5m bored pile	56	56	23-Oct-19	28-Dec-19	12-Jun-19	16-Aug-19								

	Remaining Level of Effort		Remaining Work
	Actual Level of Effort		Critical Remaining Work
	Primary Baseline		Milestone
	Actual Work		Baseline Milestone

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI  
PO ROAD (SHA TIN SECTION)  
3 Months Rolling Programme (31/08/19)**

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Date	Revision	Check...	Approved
07-Sep-19	3MRP DWP 1908	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019					
								Aug 14	Sep 15	Oct 16	Nov 17	Dec 18	
<b>MODIFICATION EXISTING PIER WALL OF N263</b>													
Z3_3870	SAW_1_piling works for new NHA wall 3nr 1.5m bored pile	42	42	02-Nov-19	20-Dec-19	06-Jun-19	26-Jul-19						
<b>MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL</b>													
Z3_3950	SHA_piling works for pier SHA6 nos. Socket H-pile	48	48	23-Sep-19	19-Nov-19	30-May-19	27-Jul-19						
Z3_3960	SHA_ELS & pile cap construction	45	45	28-Nov-19	23-Jan-20	27-Jul-19	19-Sep-19						
<b>RETAINING WALL L &amp; SUBWAY</b>													
<b>RETAINING WALL NO.1</b>													
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	45	31-Aug-19	25-Oct-19	22-May-19	16-Jul-19						
Z3_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	45	26-Oct-19	17-Dec-19	16-Jul-19	06-Sep-19						
<b>RETAINING WALL NO.6</b>													
Z3_1218_1000	RW6_ELS works for Bay 601 to Bay 608 (62m_2 side)	35	30	12-Jul-19 A	15-Nov-19	27-May-19	12-Jul-19						
Z3_1218_1010	RW6_base slab construction for Bay 601 to Bay 608	64	64	07-Oct-19	02-Jan-20	20-Jun-19	17-Sep-19						
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 608	96	96	29-Oct-19	10-Mar-20	12-Jul-19	22-Nov-19						
Z3_1218_1040	RW6_soldier pile wall for Bay 609 to Bay 614 (53nr)	30	30	17-Sep-19	28-Oct-19	19-Apr-19	31-May-19						
<b>RETAINING WALL NO.7</b>													
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	26	26-Jul-19 A	26-Mar-20	17-Sep-19	28-Oct-19						
Z3_1218_2040	RW7_soldier pile wall for Bay 701 to Bay 705 (62nr)	35	35	29-Oct-19	16-Dec-19	31-May-19	19-Jul-19						
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	32	19-Nov-19	01-Jan-20	21-Jun-19	06-Aug-19						
<b>MODIFY EXISTING RETAINING WALL SR4</b>													
Z3_5070	SR4_ELS works for Bay SR401 to Bay SR405 (90m_1 side)	25	25	31-Oct-19	29-Nov-19	31-May-19	02-Jul-19						
Z3_5080	SR4_base slab construction for Bay SR401 to Bay SR405	40	40	31-Oct-19	17-Dec-19	31-May-19	19-Jul-19						
Z3_5090	SR4_retaining wall construction for Bay SR401 to SR405	60	60	23-Nov-19	08-Feb-20	25-Jun-19	04-Sep-19						
<b>MODIFY EXISTING SUBWAY NS30</b>													
Z3_5200	Re-align existing subway NS30	120	120	31-Aug-19	24-Jan-20	22-May-19	15-Oct-19						
<b>WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)</b>													
<b>PRELIMINARIES WORKS</b>													
<b>TEMPORARY TRAFFIC ARRANGEMENT</b>													
<b>TTA PERIOD</b>													
Z4_1390	Construction Zone 4_Stage 1 Northbound structure	206	206	02-Oct-19	12-Jun-20	07-May-19	14-Jan-20						
Z4_1470	Construction Zone 4_NF66 Construction	220	220	31-Aug-19	30-May-20	18-Apr-19	15-Jan-20						

-  Remaining Level of Effort
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-  Milestone
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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/08/19)**  
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Date	Revision	Check...	Approved
07-Sep-19	3MRP DWP 1908	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019						
								Aug 14	Sep 15	Oct 16	Nov 17	Dec 18		
Z4_1480	Construction Zone 4_NF40 Construction	489	489	31-Aug-19	27-Apr-21	01-Apr-19	23-Nov-20							
<b>UTILITIES DIVERSION</b>														
<b>NORTHBOUND</b>														
Z4_1270	UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m (Abandoned)	0	0	02-Oct-19	02-Oct-19	07-May-19	07-May-19							
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	31-Aug-19	30-Sep-19	02-Apr-19	06-May-19							
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-2160 20m (Abandoned)	0	0	02-Oct-19	02-Oct-19	07-May-19	07-May-19							
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	31-Aug-19	05-Sep-19	02-Apr-19	08-Apr-19							
Z4_1360	UU_Fresh watermain for N4 CH2150-2200 77m 600mm	40	40	02-Oct-19	18-Nov-19	07-May-19	24-Jun-19							
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>														
<b>PILE CAP AND FOOTING</b>														
<b>NORTHBOUND</b>														
Z4_1000	N4_ELS for footing construction N4-12 to N4-29 (231m_2 side)	64	64	02-Oct-19	16-Dec-19	07-May-19	23-Jul-19							
Z4_1010	N4_footing construction N4-12 to N4-29 (18nr)	126	126	31-Oct-19	01-Apr-20	05-Jun-19	04-Nov-19							
<b>BRIDGE AND STRUCTURE WORKS</b>														
<b>MODIFICATION WORKS FOR NF40</b>														
NF40_1000	Construct temporary staircase	60	60	31-Aug-19	12-Nov-19	01-Apr-19	17-Jun-19							
NF40_1010	Demolish existing staircase & part of existing footing	45	45	13-Nov-19	07-Jan-20	18-Jun-19	09-Aug-19							
<b>MODIFICATION WORKS FOR NF66</b>														
NF66_1000	ELS & 1st stage pile cap construction (CSD)	50	50	31-Aug-19	31-Oct-19	18-Apr-19	22-Jun-19							
NF66_1010	Pile cap construction (CSD)	35	35	01-Nov-19	11-Dec-19	22-Jun-19	03-Aug-19							
<b>WORK BETWEEN FOOTBRIDGE NF66 AND FOOTING TAN ROAD (ZONE 5)</b>														
<b>PRELIMINARIES WORKS</b>														
<b>PREPARATORY WORKS</b>														
<b>TREE FELLING/TRANPLANT</b>														
Z5_1710	Zone 5_tree felling works	18	1	22-Jan-19 A	16-Mar-20	21-Sep-19	15-Oct-19							
<b>PORTION E (ZONE 5)</b>														
<b>PRELIMINARIES WORKS</b>														
<b>PREPARATORY WORKS</b>														
<b>TREE FELLING/TRANPLANT</b>														
Z5E_1140	Portion E_tree felling works	30	0	22-Jan-19 A	29-Aug-20 A	15-Apr-20	22-May-20							

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	Actual Work		Baseline Milestone

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/08/19)**  
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Date	Revision	Check...	Approved
07-Sep-19	3MRP DWP 1908	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019					2020
								Sep 15	Oct 16	Nov 17	Dec 18	Jan 19	
<b>Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Roa</b>													
<b>PRELIMINARIES &amp; GENERAL REQUIREMENT</b>													
<b>GENERAL SUBMISSION</b>													
SUB1200	Hoarding Plan	0	0	30-Sep-19*		31-Mar-19							
SUB1343	TCSS Configuration Management	0	0	30-Sep-19*		31-Mar-19							
SUB1347	Lift Installation - Design Data	0	0	30-Sep-19*		31-Mar-19							
SUB1403	ITP's for Lighting Luminaires and System	0	0	30-Sep-19*		31-Mar-19							
SUB1405	All Lighting Designs	0	0	30-Sep-19*		31-Mar-19							
SUB1410	Combined Services Drawings (CSD)	0	0	30-Sep-19*		31-Mar-19							
<b>DESIGN SUBMISSION</b>													
<b>STRCR INTERCHANGE MODIFICATION WORKS (Alternative Design)</b>													
DES1070	PM Consent for Construction	28	1	06-Nov-18 A	30-Sep-19	20-Feb-19	19-Mar-19						
DES1110	PM Consent for Construction	28	17	03-Apr-19 A	16-Oct-19	29-Apr-19	26-May-19						
DES1150	PM Consent for Construction	28	17	03-May-19 A	16-Oct-19	22-Apr-19	20-May-19						
<b>NOISE MITIGATION MEASURES</b>													
DES1190	PM Consent for Construction	28	6	25-Jun-19 A	05-Oct-19	04-Apr-19	02-May-19						
DES1230	PM Consent for Construction	28	3	02-Jan-19 A	02-Oct-19	31-Jan-19	27-Feb-19						
DES1250	PM review & comment	28	25	12-Jul-19 A	25-Oct-19	05-Apr-19	02-May-19						
DES1260	Re-submit Foundation Design of Noise Mitigation M	23	23	26-Oct-19	18-Nov-19	04-May-19	26-May-19						
DES1270	PM Consent for Construction	28	28	18-Nov-19	16-Dec-19	27-May-19	23-Jun-19						
DES1290	PM review & comment	28	25	07-Aug-19 A	25-Oct-19	08-Apr-19	05-May-19						
DES1300	Re-submit Superstructure Design of Noise Mitigati	20	20	26-Oct-19	15-Nov-19	07-May-19	26-May-19						
DES1310	PM Consent for Construction	28	28	15-Nov-19	13-Dec-19	27-May-19	23-Jun-19						
DES1330	PM review & comment	28	25	07-Aug-19 A	25-Oct-19	26-Apr-19	24-May-19						
DES1340	Re-submit Superstructure Design of Noise Mitigati	21	21	26-Oct-19	16-Nov-19	25-May-19	15-Jun-19						
DES1350	PM Consent for Construction	28	28	16-Nov-19	14-Dec-19	15-Jun-19	13-Jul-19						
DES1370	PM review & comment	28	25	07-Aug-19 A	25-Oct-19	15-May-19	12-Jun-19						
DES1380	Re-submit Superstructure Design of Noise Mitigati	20	20	26-Oct-19	15-Nov-19	13-Jun-19	03-Jul-19						
DES1390	PM Consent for Construction	28	28	15-Nov-19	13-Dec-19	03-Jul-19	31-Jul-19						
<b>REMAINING WORKS</b>													
DES1430	PM Consent for Construction	28	7	11-Jan-19 A	06-Oct-19	04-Mar-19	31-Mar-19						
DES1470	PM Consent for Construction	28	18	11-Mar-19 A	18-Oct-19	11-May-19	07-Jun-19						
DES1480	Prepare & submit Foundation Design of Pedestrian	21	3	26-Nov-18 A	03-Oct-19	31-Dec-18	20-Jan-19						
DES1490	PM review & comment	28	24	25-Jan-19 A	26-Oct-19	05-Apr-19	02-May-19						
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 &	35	35	27-Oct-19	01-Dec-19	04-May-19	07-Jun-19						
DES1510	PM Consent for Construction	28	28	01-Dec-19	29-Dec-19	08-Jun-19	05-Jul-19						
DES1530	PM review & comment	28	1	02-Jan-19 A	30-Sep-19	31-Jan-19	27-Feb-19						
DES1540	Re-submit Design of Watermain & Irrigation System	32	1	02-Jan-19 A	30-Sep-19	02-Apr-19	03-May-19						
DES1550	PM Consent for Construction	28	20	21-Jan-19 A	20-Oct-19	04-May-19	31-May-19						

	Remaining Level of Effort		Remaining Work
	Actual Level of Effort		Critical Remaining Work
	Primary Baseline		Milestone
	Actual Work		Baseline Milestone

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**

**3 Months Rolling Programme (30/09/19)**

Date	Revision	Check...	Approved
09-Oct-19	3MRP DWP 1909	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019					2020		
								Sep 15	Oct 16	Nov 17	Dec 18	Jan 19			
DES1560	Prepare & submit Design of E&M System (E&M & F	35	35	30-Sep-19	03-Nov-19	31-Mar-19	04-May-19								
DES1570	PM review & comment	28	28	04-Nov-19	01-Dec-19	05-May-19	01-Jun-19								
DES1580	Re-submit Design of E&M System (E&M & Road Li	32	32	03-Dec-19	03-Jan-20	03-Jun-19	04-Jul-19								Re-s
<b>SUBLETTING &amp; PROCUREMENT SCHEDULE</b>															
<b>SUBLETTING</b>															
SPS1000	Maintenance of Traffic Flow	30	30	01-Oct-19	30-Oct-19	31-Mar-19	29-Apr-19								
SPS1030	Hoarding and Signboard	30	30	30-Sep-19	29-Oct-19	31-Mar-19	29-Apr-19								
SPS1060	Security System of the Site	30	30	30-Sep-19	29-Oct-19	31-Mar-19	29-Apr-19								
SPS1140	Site Clearance and Demolition Work	30	30	01-Oct-19	30-Oct-19	07-Apr-19	06-May-19								
SPS1160	Monitoring and Instrumentation	30	30	01-Oct-19	30-Oct-19	07-Apr-19	06-May-19								
SPS1200	Waterwork (Pipework)	30	30	01-Oct-19	30-Oct-19	31-Mar-19	29-Apr-19								
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	29-Nov-19	28-Dec-19	31-May-19	29-Jun-19								Drainage (F
SPS1220	CCTV for Drainage Pipe	30	30	30-Sep-19	29-Oct-19	01-Apr-19	30-Apr-19								
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	01-Oct-19	30-Oct-19	31-Mar-19	29-Apr-19								
SPS1250	Reinforced Concrete Work for Noise Mitigation Me	30	30	01-Oct-19	30-Oct-19	31-Mar-19	29-Apr-19								
SPS1260	Reinforced Concrete Work for Bridge Work	30	30	01-Oct-19	30-Oct-19	28-Apr-19	28-May-19								
SPS1270	Reinforced Concrete Work for Pedestrian Lift	30	30	24-Dec-19	22-Jan-20	30-Jun-19	29-Jul-19								
SPS1280	Reinforced Concrete Work for Footbridge NF40 & I	30	30	30-Oct-19	28-Nov-19	23-May-19	22-Jun-19								Reinforced Concrete Work for Footbridge N
SPS1290	Steelwork for NB and Lift Tower	30	30	30-Sep-19	29-Oct-19	24-Apr-19	23-May-19								
SPS1310	Bearing and Movement Joint	30	30	27-Oct-19	25-Nov-19	01-May-19	31-May-19								
SPS1320	Tendon Works	30	30	27-Oct-19	25-Nov-19	01-May-19	31-May-19								
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Siç	30	30	02-Nov-19	01-Dec-19	02-May-19	31-May-19								
SPS1420	Lighting System for Noise Mitigation Measures	30	30	30-Sep-19	29-Oct-19	12-Jul-19	10-Aug-19								
SPS1430	Panels for Noise Mitigation Measures	30	30	24-Dec-19	22-Jan-20	08-Oct-19	06-Nov-19								
SPS1440	Drainage for Noise Mitigation Measures	30	30	30-Sep-19	29-Oct-19	12-Jul-19	10-Aug-19								
SPS1460	Waterproofing (Bitumen Paint)	30	30	30-Sep-19	29-Oct-19	06-Apr-19	05-May-19								
<b>WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZON</b>															
<b>PRELIMINARIES WORKS</b>															
<b>TEMPORARY TRAFFIC ARRANGEMENT</b>															
<b>TTA PERIOD</b>															
Z1_1410	Construction Zone 1_Stage 1 Northbound R1 struc'	300	279	19-Aug-19 A	07-Sep-20	19-Jun-19	20-Jun-20								
Z1_1420	Construction Zone 1_Stage 1 Southbound R2 struc	374	374	25-Oct-19	26-Jan-21	04-Sep-19	07-Dec-20								
Z1_1430	Construction Zone 1_Stage 1 Central Barrier struct	327	327	30-Sep-19	05-Nov-20	12-Aug-19	18-Aug-20								
<b>PREPARATORY WORKS</b>															
<b>MODIFICATION EXISTING ROAD/TEMPORARY ROAD</b>															
Z1_1270	Zone 1-1_construct temporary road platform along	60	0	19-Aug-19 A	28-Sep-19 A	19-Jun-19	28-Aug-19								Zone 1-1_construct temporary road platform along Northbound for R1
<b>UTILITIES DIVERSION</b>															
<b>NORTHBOUND</b>															
Z1_1330	UU_CLP-abandoned 33kv cable for R1 & R2 CH10	11	11	30-Oct-19	11-Nov-19	09-Sep-19	21-Sep-19								UU_CLP-abandoned 33kv cable for R1 & R2 CH1075 30m
Z1_1340	UU_CLP-abandoned 11kv cable for R1 & R2 CH10'	11	11	12-Nov-19	23-Nov-19	23-Sep-19	05-Oct-19								UU_CLP-abandoned 11kv cable for R1 & R2 CH1
<b>CENTRAL BARRIER</b>															
Z1_1300	UU_CLP-abandoned 33kv cable for RSE1 CH1190-	20	20	21-Oct-19	12-Nov-19	02-Aug-19	24-Aug-19								UU_CLP-abandoned 33kv cable for RSE1 CH1190-1300 110r
<b>SOUTHBOUND</b>															
Z1_1370	UU_CLP-abandoned 33kv cable for R2 CH1100-11-	11	11	25-Nov-19	06-Dec-19	08-Oct-19	19-Oct-19								UU_CLP-abandoned 33kv cable fo
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>															
<b>PILE FOUNDATION WORKS</b>															

	Remaining Level of Effort		Remaining Work
	Actual Level of Effort		Critical Remaining Work
	Primary Baseline		Milestone
	Actual Work		Baseline Milestone

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI  
PO ROAD (SHA TIN SECTION)**

**3 Months Rolling Programme (30/09/19)**

Date	Revision	Check...	Approved
09-Oct-19	3MRP DWP 1909	Tim	



Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019					2020
								Sep 15	Oct 16	Nov 17	Dec 18	Jan 19	
<b>NORTHBOUND</b>													
Z1_1510	R1_site investigation for R1-02P (1nr)	5	5	19-Oct-19	24-Oct-19	29-Aug-19	03-Sep-19						
Z1_1520	R1_mini piles for R1-02P (8nr)	40	40	08-Nov-19	24-Dec-19	19-Sep-19	06-Nov-19						
<b>CENTRAL BARRIER</b>													
Z1_1490	RSE1_site investigation for RSE1-01P to 03P (6nr)	15	15	30-Sep-19	18-Oct-19	12-Aug-19	28-Aug-19						
Z1_1500	RSE1_mini piles for RSE1-01P to 03P (22nr)	110	110	02-Nov-19	16-Mar-20	12-Sep-19	24-Jan-20						
<b>SOUTHBOUND</b>													
Z1_1050	R2_site investigation for R2-02P to 06P (10nr)	25	25	25-Oct-19	22-Nov-19	04-Sep-19	04-Oct-19						
Z1_1060	R2_mini piles for R2-02P to 06P (35nr)	175	175	07-Dec-19	14-Jul-20	21-Oct-19	25-May-20						
<b>WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)</b>													
<b>PRELIMINARIES WORKS</b>													
<b>TEMPORARY TRAFFIC ARRANGEMENT</b>													
<b>TTA PERIOD</b>													
Z2_1260	Construction Zone 2_Stage 1 Central Barrier struct	518	458	10-Jul-19 A	19-Apr-21	31-May-19	25-Feb-21						
<b>PREPARATORY WORKS</b>													
<b>MODIFICATION EXISTING ROAD/TEMPORARY ROAD</b>													
Z2_1230	Zone 2-1_construct temporary road platform along	60	0	10-Jul-19 A	21-Sep-19 A	31-May-19	10-Aug-19						
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE FOUNDATION WORKS</b>													
<b>CENTRAL BARRIER</b>													
Z2_1000	RSE2_site investigation for RSE2-13P & 15P (30nr)	50	50	30-Sep-19	28-Nov-19	12-Aug-19	11-Oct-19						
Z2_1010	RSE2_mini piles for RSE2-01P, 03P to 15P (116nr)	193	193	06-Nov-19	03-Jul-20	17-Sep-19	14-May-20						
<b>WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)</b>													
<b>PRELIMINARIES WORKS</b>													
<b>TEMPORARY TRAFFIC ARRANGEMENT</b>													
<b>TTA PERIOD</b>													
Z3_3270	Construction period of Zone 3a_1	333	333	30-Sep-19	12-Nov-20	17-Apr-19	20-May-20						
Z3_3340	Construction period of Zone 3c_1	341	341	30-Sep-19	21-Nov-20	22-May-19	30-May-20						
Z3_3400	Construction period of Zone 3b_1	330	330	16-Oct-19	24-Nov-20	30-May-19	30-May-20						
<b>PREPARATORY WORKS</b>													
<b>TREE FELLING/TRANPLANT</b>													
Z3_2800	Zone 3_tree felling works	18	0	22-Jan-19 A	12-Aug-19 A	25-Feb-19	16-Mar-19						
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE FOUNDATION WORKS</b>													
<b>SOUTHBOUND</b>													
Z3_1530	SE1-6_site investigation for S1E6-51P (2nr)	10	10	11-Dec-19	23-Dec-19	27-Jul-19	08-Aug-19						
<b>BRIDGE AND STRUCTURE WORKS</b>													
<b>PRELIMINARIES WORKS</b>													
<b>UTILITIES DIVERSION</b>													
<b>NORTHBOUND</b>													
Z3_2910	UU_CLP-abandoned 11kv cable for RW6 CH1675-	13	13	30-Sep-19	16-Oct-19	03-Apr-19	18-Apr-19						
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 1'	34	34	19-Oct-19	27-Nov-19	16-Apr-19	31-May-19						
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 Cl	22	22	02-Nov-19	27-Nov-19	04-May-19	31-May-19						
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23	23	04-Nov-19	29-Nov-19	03-May-19	31-May-19						
<b>SOUTHBOUND</b>													
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300	127	127	30-Sep-19	04-Mar-20	01-Apr-19	04-Sep-19						
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 Cl	35	35	21-Oct-19	29-Nov-19	24-Apr-19	05-Jun-19						

 Remaining Level of Effort	 Remaining Work
 Actual Level of Effort	 Critical Remaining Work
 Primary Baseline	 Milestone
 Actual Work	 Baseline Milestone

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI  
PO ROAD (SHA TIN SECTION)  
3 Months Rolling Programme (30/09/19)  
Page 3 of 5**

Date	Revision	Check...	Approved
09-Oct-19	3MRP DWP 1909	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019					2020	
								Sep 15	Oct 16	Nov 17	Dec 18	Jan 19		
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH164	51	51	30-Sep-19	29-Nov-19	01-Apr-19	05-Jun-19							UU_GAS-diversion LP pipe for SR2 & N263
Z3_3070	UU_HKT-diversion cable for SR2 & N263 CH1630-	39	39	16-Oct-19	29-Nov-19	16-Apr-19	05-Jun-19							UU_HKT-diversion cable for SR2 & N263
Z3_3110	UU_GAS-diversion LP pipe for N263 CH1825-196C	38	38	17-Oct-19	29-Nov-19	17-Apr-19	05-Jun-19							UU_GAS-diversion LP pipe for N263 CH1825-196C
Z3_3120	UU_Fresh watermain for Staircase & N263 150PE	23	23	23-Dec-19	21-Jan-20	29-Jun-19	26-Jul-19							
<b>WIDENING FOR NORTH HOLLOW ABUTMENT (N264)</b>														
Z3_4200	C01_ELS & footing construction	45	45	30-Sep-19	23-Nov-19	05-Apr-19	04-Jun-19							C01_ELS & footing construction
Z3_4210	C01_column construction	40	40	23-Nov-19	13-Jan-20	04-Jun-19	23-Jul-19							
Z3_4220	N264_modification existing MTRC fencing for deck	60	60	30-Sep-19	11-Dec-19	05-Apr-19	22-Jun-19							N264_modification existing MTRC fencing for deck
Z3_4240	N264_temporary protection MTRC cable	45	45	23-Nov-19	18-Jan-20	04-Jun-19	29-Jul-19							
<b>MODIFICATION OF BRIDGE N263</b>														
<b>RECONSTRUCTION ABUTMENT WALL AT NHA</b>														
Z3_4100	Demolish part of existing NHA wall for construction	60	60	30-Sep-19*	10-Dec-19	17-Apr-19	03-Jul-19							Demolish part of existing NHA wall for construction
Z3_4110	NAW-1_construct ELS & piling platform	42	42	30-Sep-19*	19-Nov-19	17-Apr-19	11-Jun-19							NAW-1_construct ELS & piling platform
Z3_4120	NAW-1_piling works for new NHA wall 5nr 1.5m bc	70	70	20-Nov-19	15-Feb-20	12-Jun-19	02-Sep-19							
Z3_4150	NAW-2_construct ELS & piling platform	42	42	30-Sep-19	19-Nov-19	17-Apr-19	11-Jun-19							NAW-2_construct ELS & piling platform
Z3_4160	NAW-2_piling works for new NHA wall 4nr 1.5m bc	56	56	20-Nov-19	30-Jan-20	12-Jun-19	16-Aug-19							
<b>MODIFICATION EXISTING PIER WALL OF N263</b>														
Z3_3870	SAW-1_piling works for new NHA wall 3nr 1.5m bc	42	42	30-Nov-19	21-Jan-20	06-Jun-19	26-Jul-19							
<b>MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL</b>														
Z3_3950	SHA_piling works for pier SHA 6 nos. Socket H-pile	48	48	16-Oct-19	11-Dec-19	30-May-19	27-Jul-19							SHA_piling works for pier SHA 6 nos. Socket H-pile
Z3_3960	SHA_ELS & pile cap construction	45	45	30-Dec-19	24-Feb-20	27-Jul-19	19-Sep-19							
<b>LIFT TOWER 2 &amp; STAIRCASE</b>														
Z3_3670	L2-PC1_piling works 5nr mini pile	20	20	30-Dec-19	22-Jan-20	05-Jul-19	29-Jul-19							
<b>RETAINING WALL &amp; SUBWAY</b>														
<b>RETAINING WALL NO.1</b>														
Z3_4550	RW1_demolish existing retaining structure between	45	45	30-Sep-19	22-Nov-19	22-May-19	16-Jul-19							RW1_demolish existing retaining structure between
Z3_4600	RW1_demolish existing retaining structure between	45	45	23-Nov-19	17-Jan-20	16-Jul-19	06-Sep-19							
<b>RETAINING WALL NO.6</b>														
Z3_1218_1000	RW6_ELS works for Bay 601 to Bay 608 (62m_2 si	35	30	12-Jul-19 A	13-Dec-19	27-May-19	12-Jul-19							RW6_ELS works for Bay 601 to Bay 608
Z3_1218_1010	RW6_base slab construction for Bay 601 to Bay 608	64	64	04-Nov-19	30-Jan-20	20-Jun-19	17-Sep-19							
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 608	96	96	26-Nov-19	07-Apr-20	12-Jul-19	22-Nov-19							
Z3_1218_1040	RW6_soldier pile wall for Bay 609 to Bay 614 (53nr)	30	30	17-Oct-19	27-Nov-19	19-Apr-19	31-May-19							RW6_soldier pile wall for Bay 609 to Bay 614
<b>RETAINING WALL NO.7</b>														
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 si	30	26	26-Jul-19 A	24-Apr-20	17-Sep-19	28-Oct-19							
Z3_1218_2040	RW7_soldier pile wall for Bay 701 to Bay 705 (62nr)	35	35	28-Nov-19	15-Jan-20	31-May-19	19-Jul-19							
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	32	19-Dec-19	31-Jan-20	21-Jun-19	06-Aug-19							
<b>MODIFY EXISTING RETAINING WALL SR4</b>														
Z3_5070	SR4_ELS works for Bay SR401 to Bay SR405 (90nr)	25	25	30-Nov-19	31-Dec-19	31-May-19	02-Jul-19							SR4_ELS works for Bay SR401 to Bay SR405
Z3_5080	SR4_base slab construction for Bay SR401 to Bay SR405	40	40	30-Nov-19	18-Jan-20	31-May-19	19-Jul-19							
Z3_5090	SR4_retaining wall construction for Bay SR401 to Bay SR405	60	60	24-Dec-19	09-Mar-20	25-Jun-19	04-Sep-19							
<b>MODIFY EXISTING SUBWAY NS30</b>														
Z3_5200	Re-align existing subway NS30	120	120	30-Sep-19	25-Feb-20	22-May-19	15-Oct-19							
<b>WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)</b>														
<b>PRELIMINARIES WORKS</b>														
<b>TEMPORARY TRAFFIC ARRANGEMENT</b>														
<b>TTA PERIOD</b>														
Z4_1390	Construction Zone 4_Stage 1 Northbound structure	208	208	31-Oct-19	15-Jul-20	07-May-19	14-Jan-20							

- Remaining Level of Effort
- Remaining Work
- Actual Level of Effort
- Critical Remaining Work
- Primary Baseline
- Milestone
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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**

**3 Months Rolling Programme (30/09/19)**

Date	Revision	Check...	Approved
09-Oct-19	3MRP DWP 1909	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019					2020
								Sep 15	Oct 16	Nov 17	Dec 18	Jan 19	
Z4_1470	Construction Zone 4_NF66 Construction	220	220	30-Sep-19	29-Jun-20	18-Apr-19	15-Jan-20						
Z4_1480	Construction Zone 4_NF40 Construction	489	489	30-Sep-19	27-May-21	01-Apr-19	23-Nov-20						
<b>UTILITIES DIVERSION</b>													
<b>NORTHBOUND</b>													
Z4_1270	UU_CLP-abandoned 33kv cable for N4 CH2100-23	0	0	31-Oct-19	31-Oct-19	07-May-19	07-May-19						
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	30-Sep-19	30-Oct-19	02-Apr-19	06-May-19						
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH21	0	0	31-Oct-19	31-Oct-19	07-May-19	07-May-19						
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360	5	5	30-Sep-19	05-Oct-19	02-Apr-19	08-Apr-19						
Z4_1360	UU_Fresh watermain for N4 CH2150-2200 77m 60	40	40	31-Oct-19	16-Dec-19	07-May-19	24-Jun-19						
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>													
<b>PILE CAP AND FOOTING</b>													
<b>NORTHBOUND</b>													
Z4_1000	N4_ELS for footing construction N4-12 to N4-29 (2'	64	64	31-Oct-19	16-Jan-20	07-May-19	23-Jul-19						
Z4_1010	N4_footing construction N4-12 to N4-29 (18nr)	126	126	28-Nov-19	07-May-20	05-Jun-19	04-Nov-19						
<b>BRIDGE AND STRUCTURE WORKS</b>													
<b>MODIFICATION WORKS FOR NF40</b>													
NF40_1000	Construct temporary staircase	60	60	30-Sep-19	10-Dec-19	01-Apr-19	17-Jun-19						
NF40_1010	Demolish existing staircase & part of existing footir	45	45	11-Dec-19	07-Feb-20	18-Jun-19	09-Aug-19						
<b>MODIFICATION WORKS FOR NF66</b>													
NF66_1000	ELS & 1st stage pile cap construction (CSD)	50	50	30-Sep-19	28-Nov-19	18-Apr-19	22-Jun-19						
NF66_1010	Pile cap construction (CSD)	35	35	29-Nov-19	11-Jan-20	22-Jun-19	03-Aug-19						
<b>WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)</b>													
<b>PRELIMINARIES WORKS</b>													
<b>PREPARATORY WORKS</b>													
<b>TREE FELLING/TRANPLANT</b>													
Z5_1710	Zone 5_tree felling works	18	0	22-Jan-19 A	24-Sep-19 A	21-Sep-19	15-Oct-19						
<b>PORTION E (ZONE 5)</b>													
<b>PRELIMINARIES WORKS</b>													
<b>PREPARATORY WORKS</b>													
<b>TREE FELLING/TRANPLANT</b>													
Z5E_1140	Portion E_tree felling works	30	0	22-Jan-19 A	29-Aug-19 A	15-Apr-20	22-May-20						

- Remaining Level of Effort
- Remaining Work
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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI  
PO ROAD (SHA TIN SECTION)**

**3 Months Rolling Programme (30/09/19)**

Date	Revision	Check...	Approved
09-Oct-19	3MRP DWP 1909	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP7 Start	AP7 Finish	2019			2020	
								Oct 16	Nov 17	Dec 18	Jan 19	Feb 20
<b>Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)</b>												
<b>PRELIMINARIES &amp; GENERAL REQUIREMENT</b>												
<b>GENERAL SUBMISSION</b>												
SUB1200	Hoarding Plan	0	0	31-Oct-19*		30-Sep-19						
SUB1343	TCSS Configuration Management	0	0	31-Oct-19*		30-Sep-19						
SUB1347	Lift Installation - Design Data	0	0	31-Oct-19*		30-Sep-19						
SUB1403	ITP's for Lighting Luminaires and System	0	0	31-Oct-19*		30-Sep-19						
SUB1405	All Lighting Designs	0	0	31-Oct-19*		30-Sep-19						
SUB1410	Combined Services Drawings (CSD)	0	0	31-Oct-19*		30-Sep-19						
<b>DESIGN SUBMISSION</b>												
<b>STRCR INTERCHANGE MODIFICATION WORKS (Alternative Design)</b>												
DES1070	PM Consent for Construction	28	1	06-Nov-18 A	31-Oct-19	20-Feb-19	19-Mar-19					
DES1110	PM Consent for Construction	28	15	03-Apr-19 A	15-Nov-19	31-Jul-19	27-Aug-19					
DES1150	PM Consent for Construction	28	17	03-May-19 A	16-Nov-19	31-Jul-19	27-Aug-19					
<b>NOISE MITIGATION MEASURES</b>												
DES1190	PM Consent for Construction	28	3	25-Jun-19 A	02-Nov-19	31-Jul-19	27-Aug-19					
DES1230	PM Consent for Construction	28	3	02-Jan-19 A	02-Nov-19	31-Jan-19	27-Feb-19					
DES1250	PM review & comment	28	14	12-Jul-19 A	13-Nov-19	01-Sep-19	29-Sep-19					
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	23	15-Nov-19	07-Dec-19	26-Oct-19	18-Nov-19					
DES1270	PM Consent for Construction	28	28	08-Dec-19	04-Jan-20	18-Nov-19	16-Dec-19					
DES1290	PM review & comment	28	25	07-Aug-19 A	25-Nov-19	31-Aug-19	27-Sep-19					
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	26-Nov-19	16-Dec-19	26-Oct-19	15-Nov-19					
DES1310	PM Consent for Construction	28	28	16-Dec-19	13-Jan-20	15-Nov-19	13-Dec-19					
DES1330	PM review & comment	28	25	07-Aug-19 A	25-Nov-19	31-Aug-19	27-Sep-19					
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	26-Nov-19	17-Dec-19	26-Oct-19	16-Nov-19					
DES1350	PM Consent for Construction	28	28	17-Dec-19	14-Jan-20	16-Nov-19	14-Dec-19					
DES1370	PM review & comment	28	25	07-Aug-19 A	25-Nov-19	31-Aug-19	27-Sep-19					
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	26-Nov-19	16-Dec-19	26-Oct-19	15-Nov-19					
DES1390	PM Consent for Construction	28	28	16-Dec-19	13-Jan-20	15-Nov-19	13-Dec-19					
<b>REMAINING WORKS</b>												
DES1430	PM Consent for Construction	28	7	11-Jan-19 A	06-Nov-19	04-Mar-19	31-Mar-19					
DES1470	PM Consent for Construction	28	17	11-Mar-19 A	16-Nov-19	31-Jul-19	27-Aug-19					
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sig	21	3	26-Nov-18 A	03-Nov-19	31-Dec-18	20-Jan-19					
DES1490	PM review & comment	28	24	25-Jan-19 A	26-Nov-19	04-Aug-19	01-Sep-19					
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gant	35	35	27-Nov-19	01-Jan-20	27-Oct-19	01-Dec-19					
DES1510	PM Consent for Construction	28	28	01-Jan-20	29-Jan-20	01-Dec-19	29-Dec-19					
DES1530	PM review & comment	28	1	02-Jan-19 A	31-Oct-19	31-Jan-19	27-Feb-19					
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	31-Oct-19	02-Apr-19	03-May-19					
DES1550	PM Consent for Construction	28	20	21-Jan-19 A	20-Nov-19	04-May-19	31-May-19					
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	31-Oct-19	04-Dec-19	30-Sep-19	03-Nov-19					
DES1570	PM review & comment	28	28	05-Dec-19	01-Jan-20	04-Nov-19	01-Dec-19					
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Jan-20	03-Feb-20	03-Dec-19	03-Jan-20					
<b>SUBLETTING &amp; PROCUREMENT SCHEDULE</b>												
<b>SUBLETTING</b>												
SPS1000	Maintenance of Traffic Flow	30	30	31-Oct-19	29-Nov-19	03-Oct-19	01-Nov-19					
SPS1030	Hoarding and Signboard	30	30	31-Oct-19	29-Nov-19	30-Sep-19	29-Oct-19					
SPS1060	Security System of the Site	30	30	31-Oct-19	29-Nov-19	30-Sep-19	29-Oct-19					
SPS1140	Site Clearance and Demolition Work	30	30	30-Nov-19	29-Dec-19	02-Nov-19	01-Dec-19					
SPS1160	Monitoring and Instrumentation	30	30	30-Dec-19	28-Jan-20	02-Dec-19	31-Dec-19					
SPS1200	Waterwork (Pipework)	30	30	31-Oct-19	29-Nov-19	30-Sep-19	29-Oct-19					
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	30-Dec-19	28-Jan-20	29-Nov-19	28-Dec-19					
SPS1220	CCTV for Drainage Pipe	30	30	31-Oct-19	29-Nov-19	30-Sep-19	29-Oct-19					
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	24-Nov-19	23-Dec-19	26-Oct-19	24-Nov-19					
SPS1250	Reinforced Concrete Work for Noise Mitigation Measures	30	30	31-Oct-19	29-Nov-19	03-Oct-19	01-Nov-19					
SPS1260	Reinforced Concrete Work for Bridge Work	30	30	31-Oct-19	29-Nov-19	01-Oct-19	30-Oct-19					
SPS1290	Steelwork for NB and Lift Tower	30	30	01-Nov-19	30-Nov-19	30-Sep-19	29-Oct-19					
SPS1300	Traffic Sign, Sign gantry and Road Sign	30	30	31-Oct-19	29-Nov-19	30-Sep-19	29-Oct-19					
SPS1310	Bearing and Movement Joint	30	30	01-Nov-19	30-Nov-19	30-Sep-19	29-Oct-19					
SPS1320	Tendon Works	30	30	01-Nov-19	30-Nov-19	30-Sep-19	29-Oct-19					
SPS1340	Earthworks and Slopeworks	30	30	31-Oct-19	29-Nov-19	30-Sep-19	29-Oct-19					

Remaining Level of Effort      Remaining Work  
 Actual Level of Effort      Critical Remaining Work  
 Primary Baseline     ◆ Milestone  
 Actual Work     ◆ Baseline Milestone

**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/10/19)**  
 Page 1 of 4

Date	Revision	Checked	Approved
08-Nov-19	3MRP DWP 1910	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP7 Start	AP7 Finish	2019			2020	
								Oct 16	Nov 17	Dec 18	Jan 19	Feb 20
SPS1350	Landscaping and Tree Felling	30	30	31-Oct-19	29-Nov-19	30-Sep-19	29-Oct-19					
SPS1360	Irrigation System	30	30	31-Oct-19	29-Nov-19	30-Sep-19	29-Oct-19					
SPS1420	Lighting System for Noise Mitigation Measures	30	30	01-Nov-19	30-Nov-19	30-Sep-19	29-Oct-19					
SPS1440	Drainage for Noise Mitigation Measures	30	30	01-Nov-19	30-Nov-19	30-Sep-19	29-Oct-19					
SPS1460	Waterproofing (Bitumen Paint)	30	30	22-Nov-19	21-Dec-19	25-Oct-19	23-Nov-19					
<b>WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)</b>												
<b>PRELIMINARIES WORKS</b>												
<b>SUMMARY PROGRAMME</b>												
Z1SU1030	Zone 1 Stage 1 RSE1 CM foundation	326	326	04-Nov-19	07-Dec-20	04-Nov-19	05-Nov-20					
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 08	307	307	29-Nov-19	11-Dec-20	04-Nov-19	05-Dec-20					
<b>UTILITIES DIVERSION</b>												
<b>CENTRAL BARRIER</b>												
Z1_1300	UU_CLP-abandoned 33kv cable for RSE1 CH1190-1300 110m	20	20	19-Nov-19	12-Dec-19	06-Nov-19	28-Nov-19					
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>												
<b>PILE FOUNDATION WORKS</b>												
<b>NORTHBOUND</b>												
Z1_1510	R1_site investigation for R1-02P (1nr)	5	5	05-Feb-20	11-Feb-20	31-Jan-20	05-Feb-20					
<b>CENTRAL BARRIER</b>												
Z1_1490	RSE1_site investigation for RSE1-01P to 03P (5nr)	15	15	04-Nov-19*	20-Nov-19	04-Nov-19	20-Nov-19					
Z1_1500	RSE1_mini piles for RSE1-01P to 03P (22nr ver)	55	55	05-Dec-19	13-Feb-20	05-Dec-19	13-Feb-20					
<b>ROADWORKS AND REMAINING WORKS</b>												
<b>GEOTECHNICAL WORKS</b>												
<b>NORTHBOUND</b>												
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	29-Nov-19*	05-Feb-20	04-Nov-19	07-Jan-20					
<b>WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)</b>												
<b>PRELIMINARIES WORKS</b>												
<b>SUMMARY PROGRAMME</b>												
Z2SU1000	Construction Zone 2_Stage 1 RSE2 CM foundation	594	508	10-Jul-19 A	20-Jul-21	08-Aug-19	10-Aug-21					
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>												
<b>PILE FOUNDATION WORKS</b>												
<b>CENTRAL BARRIER</b>												
Z2_1000	RSE2_site investigation for RSE2-13P & 15P (21nr)	55	55	21-Nov-19	30-Jan-20	21-Nov-19	30-Jan-20					
<b>WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)</b>												
<b>PRELIMINARIES WORKS</b>												
<b>SUMMARY PROGRAMME</b>												
Z3SU5000	Zone 3a (TPR area) Stage 1 RW6, RW7 & SR4	354	315	12-Jul-19 A	20-Nov-20	02-Sep-19	10-Nov-20					
Z3SU5030	Zone 3b (near SR6) Stage 1 Construct N263 & N264 foundation	393	339	20-May-19 A	18-Dec-20	31-Jul-19	23-Nov-20					
Z3SU5050	Zone 3b (near SR6) Stage 1 SE5, SE8, SR6 foundation and N262 bridge	369	369	01-Nov-19	27-Jan-21	01-Nov-19	02-Jan-21					
Z3SU5100	Zone 3c (near SR3) Stage 1 construct NS30, RW1, SR2 foundation & RW3	311	316	11-Jun-19 A	23-Nov-20	16-Sep-19	30-Sep-20					
<b>UTILITIES DIVERSION</b>												
<b>SOUTHBOUND</b>												
Z3_2900	UU_CLP-abandoned 33kv cable for SE5 & SE6 CH2090-2175 85m	17	17	04-Dec-19	24-Dec-19	02-Nov-19	22-Nov-19					
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>												
<b>PILE FOUNDATION WORKS</b>												
<b>SOUTHBOUND</b>												
Z3_1522	SE1-5_site investigation for S1E5-51 (1nr)	5	5	18-Jan-20	24-Jan-20	17-Dec-19	23-Dec-19					
Z3_1530	SE1-6_site investigation for S1E6-51P (1nr)	5	5	24-Jan-20	03-Feb-20	23-Dec-19	31-Dec-19					
Z3_5630	SE2_site investigation for S2E1-52P (2nr)	10	10	07-Jan-20	18-Jan-20	05-Dec-19	17-Dec-19					
Z3_5640	SE2_mini piles for S2E1-52P (12nr raking, 11nr ver)	58	58	05-Feb-20*	17-Apr-20	03-Jan-20	14-Mar-20					
<b>SOUTHBOUND SLIP ROAD</b>												
Z3_1720	SE8-1_site investigation for SR6 1-B (1nr)	5	5	01-Nov-19*	06-Nov-19	01-Nov-19	06-Nov-19					
Z3_1730	SE8-1_mini piles for SR6 1-B (8nr)	32	32	06-Jan-20	14-Feb-20	18-Dec-19	30-Jan-20					
<b>BRIDGE AND STRUCTURE WORKS</b>												
<b>PRELIMINARIES WORKS</b>												
<b>UTILITIES DIVERSION</b>												
<b>NORTHBOUND</b>												
Z3_2910	UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 50m	13	13	31-Oct-19	14-Nov-19	30-Sep-19	16-Oct-19					
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	34	34	01-Nov-19	10-Dec-19	02-Oct-19	11-Nov-19					
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m	22	22	15-Nov-19	10-Dec-19	17-Oct-19	11-Nov-19					
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	30	9	22-Jul-19 A	29-Nov-19	30-Sep-19	05-Nov-19					
<b>SOUTHBOUND</b>												
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127	127	31-Oct-19	02-Apr-20	09-Oct-19	11-Mar-20					
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 CH1710-1950 240m	35	35	03-Dec-19	16-Jan-20	09-Nov-19	20-Dec-19					
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1850 210m	51	51	14-Nov-19	16-Jan-20	22-Oct-19	20-Dec-19					
Z3_3070	UU_HKT-diversion cable for SR2 & N263 CH1630-1840 210m	39	39	28-Nov-19	16-Jan-20	05-Nov-19	20-Dec-19					
Z3_3100	UU_HKBN-slew cable for N262 CH1800-1810 10m	1	1	31-Oct-19	31-Oct-19	31-Oct-19	31-Oct-19					

- Remaining Level of Effort
- Remaining Work
- Actual Level of Effort
- Critical Remaining Work
- Primary Baseline
- Milestone
- Actual Work
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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/10/19)**

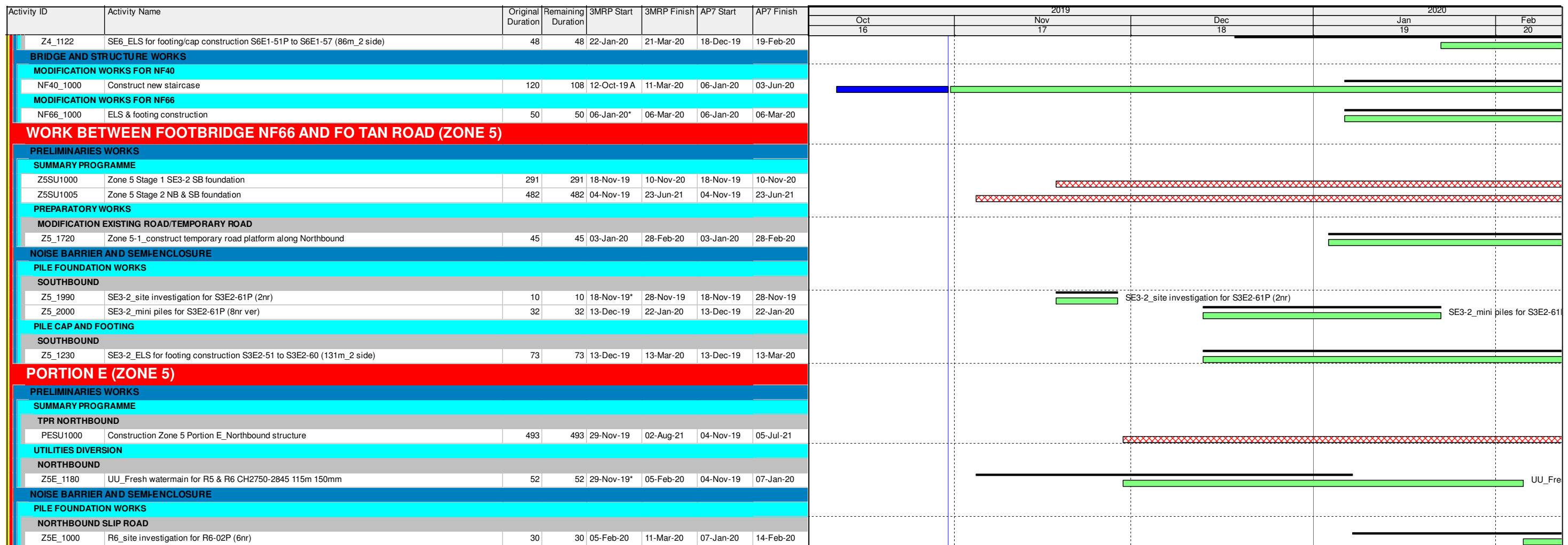
Date	Revision	Checked	Approved
08-Nov-19	3MRP DWP 1910	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP7 Start	AP7 Finish	2019			2020	
								Oct 16	Nov 17	Dec 18	Jan 19	Feb 20
Z3_3110	UU_GAS-diversion LP pipe for N263 CH1825-1960 135m	38	38	29-Nov-19	16-Jan-20	06-Nov-19	20-Dec-19					
Z3_3120	UU_Fresh watermain for Staircase & N263 150PE	23	23	17-Dec-19	16-Jan-20	23-Nov-19	20-Dec-19					
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	60	60	04-Nov-19*	15-Jan-20	04-Nov-19	15-Jan-20					
<b>MODIFICATION OF BRIDGE N263</b>												
<b>RECONSTRUCTION ABUTMENT WALL AT NHA</b>												
Z3_4110	NAW-1_construct ELS & piling platform	42	25	29-Jul-19 A	29-Nov-19	30-Sep-19	19-Nov-19					
Z3_4115	NAW-1_site investigation (2nr)	10	10	29-Nov-19	11-Dec-19	31-Oct-19	12-Nov-19					
Z3_4120	NAW-1_piling works for new NHA wall (23nr socket H-pile)	161	161	30-Dec-19	18-Jul-20	28-Nov-19	17-Jun-20					
Z3_4150	NAW-2_construct ELS & piling platform	42	42	31-Oct-19	18-Dec-19	30-Sep-19	19-Nov-19					
Z3_4155	NAW-2_site investigation (2nr)	10	10	11-Dec-19	23-Dec-19	12-Nov-19	23-Nov-19					
Z3_4160	NAW-2_piling works for new NHA wall (16nr socket H-pile)	112	112	11-Jan-20	01-Jun-20	10-Dec-19	02-May-20					
<b>MODIFICATION EXISTING PIER WALL OF N263</b>												
Z3_3870	SAW-1_piling works for new south abutment wall (3nr 1.5m bored pile)	42	42	16-Jan-20	09-Mar-20	20-Dec-19	14-Feb-20					
Z3_3910	SAW-2 & 3_piling works for new south abutment wall (4nr 1.5m bored pile)	56	50	15-Oct-19 A	16-Jan-20	16-Oct-19	20-Dec-19					
Z3_3920	SAW-2 & 3_pile testing	28	28	16-Jan-20	13-Feb-20	20-Dec-19	17-Jan-20					
<b>MODIFICATION OF BRIDGE N262</b>												
Z3_3510	C02_piling works 4nr mini pile	16	16	29-Nov-19	17-Dec-19	29-Nov-19	17-Dec-19					
Z3_3540	C03_piling works 7nr mini pile	24	24	01-Nov-19*	28-Nov-19	01-Nov-19	28-Nov-19					
Z3_3550	C03_ELS & pile cap construction	30	30	29-Jan-20	03-Mar-20	30-Dec-19	06-Feb-20					
<b>NEW SLIP ROAD 2</b>												
Z3_5325	SR2-1_site investigation (3nr)	15	10	11-Jun-19 A	07-Jan-20	15-Oct-19	31-Oct-19					
<b>RETAINING WALL &amp; SUBWAY</b>												
<b>RETAINING WALL NO.1</b>												
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	45	16-Jan-20	11-Mar-20	16-Jan-20	11-Mar-20					
<b>RETAINING WALL NO.6</b>												
Z3_1218_1000	RW6_ELS works for Bay 601 to Bay 606 (45m_2 side)	25	19	12-Jul-19 A	06-Dec-19	02-Sep-19	02-Oct-19					
Z3_1218_1010	RW6_base slab construction for Bay 601 to Bay 606	48	48	15-Nov-19	13-Jan-20	17-Oct-19	11-Dec-19					
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 606	72	72	13-Dec-19	12-Mar-20	14-Nov-19	12-Feb-20					
Z3_1218_1040	RW6_soldier pile wall & ELS for Bay 607 to Bay 614 (52nr)	58	58	15-Nov-19*	24-Jan-20	17-Oct-19	23-Dec-19					
Z3_1218_1050	RW6_base slab construction for Bay 613 & Bay 614	16	16	14-Jan-20	04-Feb-20	12-Dec-19	02-Jan-20					
<b>RETAINING WALL NO.7</b>												
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	24	26-Jul-19 A	28-Apr-20	02-Mar-20	06-Apr-20					
Z3_1218_2040	RW7_soldier pile wall & ELS for Bay 701 to Bay 705 (62nr)	69	69	11-Dec-19	06-Mar-20	12-Nov-19	06-Feb-20					
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	32	08-Feb-20	16-Mar-20	07-Jan-20	15-Feb-20					
<b>MODIFY EXISTING RETAINING WALL SR4</b>												
Z3_5070	SR4_ELS works for Bay SR401 to Bay SR405 (90m_1 side)	13	13	24-Dec-19	10-Jan-20	25-Nov-19	09-Dec-19					
Z3_5080	SR4_base slab construction for Bay SR401 to Bay SR405	20	20	15-Jan-20	10-Feb-20	13-Dec-19	08-Jan-20					
Z3_5110	SR4_ELS works for Bay SR406 to Bay SR409 (80m_1 side)	11	11	11-Dec-19	23-Dec-19	12-Nov-19	23-Nov-19					
Z3_5120	SR4_base slab construction for Bay SR406 to Bay SR409	16	16	24-Dec-19	14-Jan-20	25-Nov-19	12-Dec-19					
Z3_5130	SR4_retaining wall construction for Bay SR406 to SR409	24	24	15-Jan-20	14-Feb-20	13-Dec-19	13-Jan-20					
<b>MODIFY EXISTING SUBWAY NS30</b>												
Z3_5200	Demolish existing subway & construct NS30	160	160	16-Jan-20	01-Aug-20	16-Jan-20	01-Aug-20					
<b>WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)</b>												
<b>PRELIMINARIES WORKS</b>												
<b>SUMMARY PROGRAMME</b>												
Z4SU1000	Zone 4 Stage 1 SE6 51 to 57	154	154	24-Dec-19	07-Jul-20	22-Nov-19	03-Jun-20					
Z4SU1005	Zone 4 Stage 2 NB & SB foundation	450	450	29-Nov-19	10-Jun-21	06-Nov-19	14-May-21					
Z4SU1100	Zone 4 NF66 Construction	230	230	06-Jan-20	14-Oct-20	06-Jan-20	14-Oct-20					
Z4SU1110	Zone 4 NF40 Construction	387	375	12-Oct-19 A	02-Feb-21	06-Jan-20	28-Apr-21					
<b>UTILITIES DIVERSION</b>												
<b>NORTHBOUND</b>												
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-2160 20m (Abandoned)	0	0	22-Jan-20	22-Jan-20	18-Dec-19	18-Dec-19					
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	31-Oct-19	05-Nov-19	30-Sep-19	05-Oct-19					
Z4_1310	UU_HKT-slew cable for SE6 CH2180-2300 120m	14	14	06-Jan-20	22-Jan-20	02-Dec-19	18-Dec-19					
Z4_1490	UU_Fresh watermain for N4 CH2300-2550 250m 600mm (Additional)	120	120	04-Nov-19*	30-Mar-20	04-Nov-19	30-Mar-20					
Z4_1500	UU_Fresh watermain for N4 CH2000-2100 100m 200mm (Additional)	60	60	29-Nov-19	14-Feb-20	06-Nov-19	17-Jan-20					
<b>SOUTHBOUND</b>												
Z4_1340	UU_CLP-slew 132kv cable for NF40 CH2090-2175 85m	10	10	31-Oct-19	11-Nov-19	30-Sep-19	12-Oct-19					
Z4_1350	UU_CLP-slew 11kv cable for NF40 CH2120-2150 30m	4	4	31-Oct-19	04-Nov-19	30-Sep-19	04-Oct-19					
Z4_1370	UU_Fresh watermain for SE6 CH2130-2150 20m	21	21	29-Nov-19	24-Dec-19	29-Oct-19	22-Nov-19					
<b>NOISE BARRIER AND SEMI-ENCLOSURE</b>												
<b>PILE FOUNDATION WORKS</b>												
<b>SOUTHBOUND</b>												
Z4_1110	SE6_site investigation for S6E1-51P (2nr)	10	10	24-Dec-19*	08-Jan-20	22-Nov-19	04-Dec-19					
Z4_1120	SE6_mini piles for S6E1-51P (10nr ver)	40	40	22-Jan-20	12-Mar-20	18-Dec-19	10-Feb-20					
<b>PILE CAP AND FOOTING</b>												
<b>SOUTHBOUND</b>												

-  Remaining Level of Effort
-  Remaining Work
-  Actual Level of Effort
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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/10/19)**

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-  Remaining Level of Effort
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-  Milestone
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**ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)**  
**3 Months Rolling Programme (31/10/19)**  
**Page 4 of 4**

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# FUGRO TECHNICAL SERVICES LIMITED

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## Appendix B

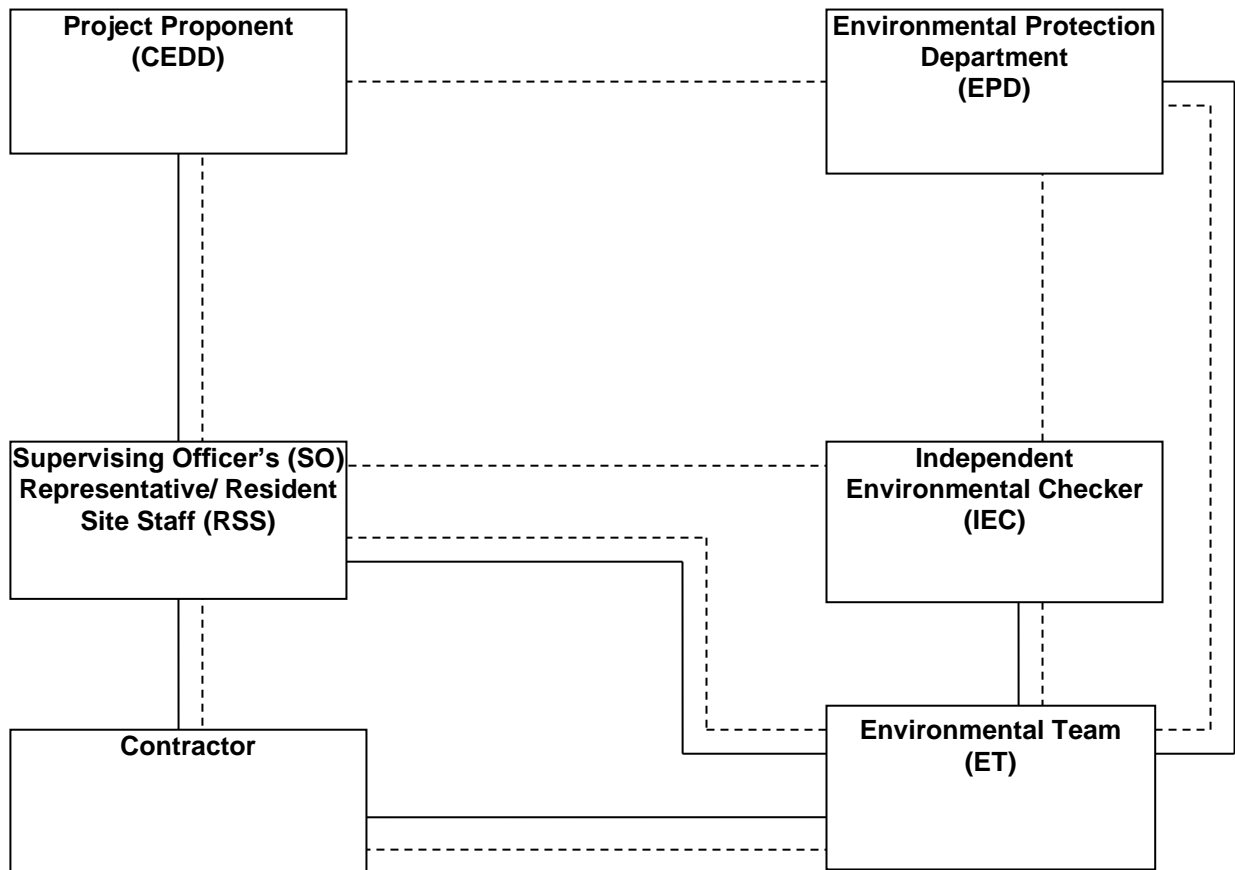
### Project Organization Chart



# FUGRO TECHNICAL SERVICES LIMITED

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**Legend:**  
—— Line of Reporting  
- - - - Line of Communication

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## **Appendix C**

### **Action and Limit Levels for Air Quality and Noise**

# FUGRO TECHNICAL SERVICES LIMITED

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

Parameter	Monitoring Station	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
24-hr TSP ( $\mu\text{g}/\text{m}^3$ )	AMS 3A	200	260
	AMS 4A	200	
	AMS 6	165	
	AMS 7A	171	
	AMS 12	168	
	AMS 15	172	
1-hr TSP ( $\mu\text{g}/\text{m}^3$ )	AMS 3A	350	500
	AMS 4A	348	
	AMS 6	347	
	AMS 7A	344	
	AMS 12	296	
	AMS 15	350	

## 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 NMS8 NMS9 NMS10A* NMS11 NMS12* NMS13 NMS14 NMS15 NMS16 NMS17* NMS18 NMS19 NMS20 NMS23 NMS24 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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## Action and Limit Levels for Construction Noise, Leq (15min), dB(A)

Time Period	Location	Action	Limit
2300-0700 hrs of next day	NMS1 NMS2 NMS3 NMS4 NMS5A NMS6A NMS7 NMS8 NMS9 NMS11 NMS13 NMS14 NMS15 NMS16 NMS18 NMS19 NMS20 NMS23 NMS24 NMS25A NMS26	When one documented complaint is received	55 dB(A)

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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 3A - Wai Wah Centre

1-hour TSP ( $\mu\text{g}/\text{m}^3$ )								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
4-Nov-19	9:00	87	82	82	84	350	500	Fine
9-Nov-19	12:04	56	47	49	51			Fine
15-Nov-19	10:34	70	52	61	61			Fine
21-Nov-19	9:03	142	137	135	138			Fine
27-Nov-19	10:32	101	87	88	92			Fine
<b>Average</b>		85						
<b>Max</b>		142						
<b>Min</b>		47						

### AMS 4A - Wai Wah Centre

1-hour TSP ( $\mu\text{g}/\text{m}^3$ )									
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather	
2-Sep-19	8:42	94	94	81	90	348	500	Overcast	
7-Sep-19	15:00	107	126	133	122			Fine	
12-Sep-19	11:01	78	78	78	78			Fine	
18-Sep-19	14:42	120	126	116	121			Fine	
24-Sep-19	13:00	100	108	102	103			Sunny	
30-Sep-19	13:34	42	50	48	47			Fine	
5-Oct-19	11:39	104	102	104	103			Sunny	
11-Oct-19	15:42	136	147	140	141			Sunny	
17-Oct-19	13:24	57	68	69	65			Fine	
23-Oct-19	15:18	135	137	139	137			Sunny	
29-Oct-19	15:32	72	76	80	76			Fine	
<b>Average</b>		98							
<b>Max</b>		147							
<b>Min</b>		42							

### AMS 6 - Shatin Plaza

1-hour TSP ( $\mu\text{g}/\text{m}^3$ )									
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather	
2-Sep-19	14:11	78	78	64	73	347	500	Overcast	
7-Sep-19	11:30	107	105	103	105			Fine	
12-Sep-19	11:30	59	63	67	63			Fine	
18-Sep-19	15:58	81	91	98	90			Fine	
24-Sep-19	12:40	92	100	90	94			Sunny	
30-Sep-19	12:11	38	41	41	40			Fine	
5-Oct-19	15:35	60	62	70	64			Sunny	
11-Oct-19	15:12	107	116	114	112			Sunny	
17-Oct-19	15:35	64	67	75	69			Fine	
23-Oct-19	15:45	91	89	100	93			Sunny	
29-Oct-19	13:48	52	60	56	56			Fine	
4-Nov-19	9:14	63	52	54	56			Fine	
9-Nov-19	12:26	48	39	39	42			Fine	
15-Nov-19	13:11	73	66	65	68			Fine	
21-Nov-19	9:15	113	107	95	105			Fine	
27-Nov-19	11:44	75	74	66	72			Fine	
<b>Average</b>		75							
<b>Max</b>		116							
<b>Min</b>		38							

- 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.

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

### AMS 7A - Sheung Wo Che

1-hour TSP ( $\mu\text{g}/\text{m}^3$ )								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
2-Sep-19	10:10	67	67	69	68	344	500	Overcast
7-Sep-19	15:18	83	90	92	88			Fine
12-Sep-19	12:08	70	78	62	70			Fine
18-Sep-19	13:16	102	99	101	101			Fine
24-Sep-19	12:30	106	117	110	111			Sunny
30-Sep-19	15:44	63	65	63	64			Fine
5-Oct-19	13:51	66	71	71	69			Sunny
11-Oct-19	14:12	87	91	80	86			Sunny
17-Oct-19	10:52	65	74	72	70			Fine
23-Oct-19	10:15	69	56	65	63			Sunny
29-Oct-19	14:26	44	48	52	48			Fine
4-Nov-19	10:02	81	81	76	79			Fine
9-Nov-19	13:26	48	40	37	42			Fine
15-Nov-19	14:44	77	61	84	74			Fine
21-Nov-19	9:28	100	91	89	93			Fine
27-Nov-19	13:16	71	56	53	60			Fine
<b>Average</b>		74						
<b>Max</b>		117						
<b>Min</b>		37						

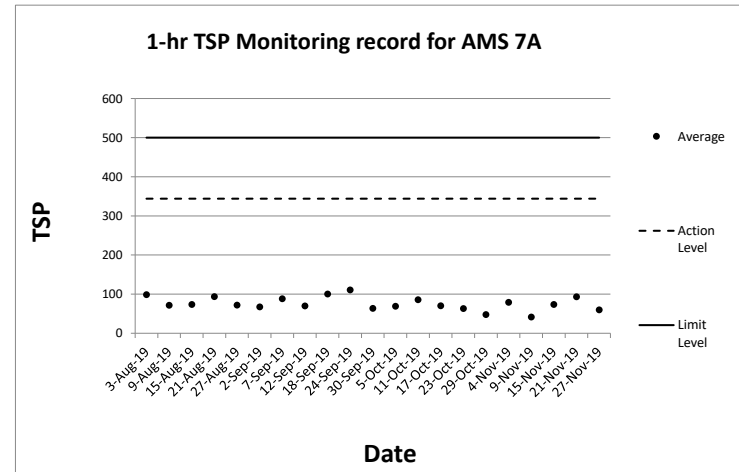
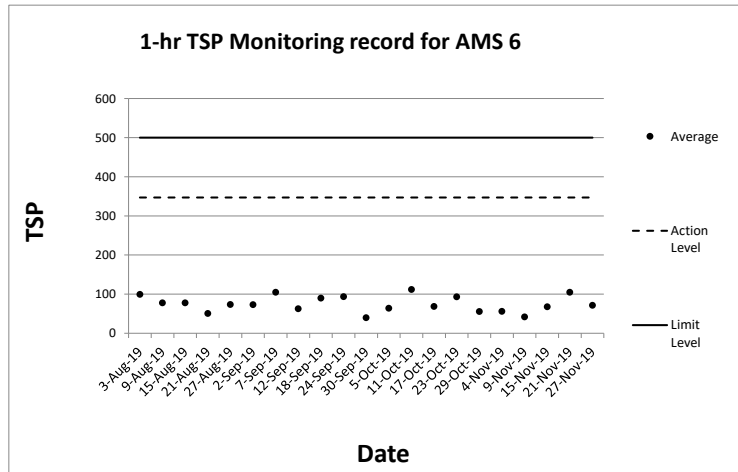
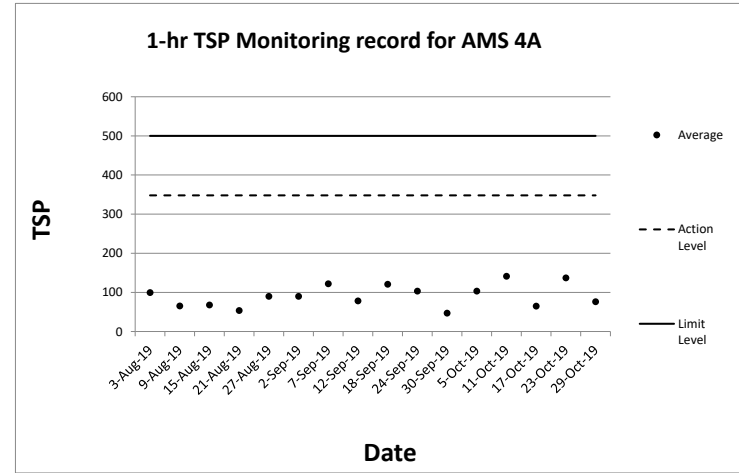
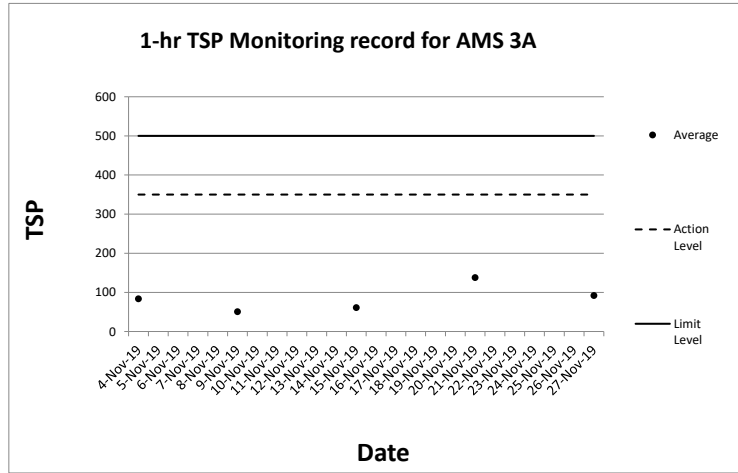
### AMS 12 - Fung Wo Estate

1-hour TSP ( $\mu\text{g}/\text{m}^3$ )								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
4-Nov-19	10:20	71	60	56	62	296	500	Fine
9-Nov-19	14:02	40	36	29	35			Fine
15-Nov-19	15:20	72	70	57	66			Fine
21-Nov-19	9:37	66	58	58	61			Fine
27-Nov-19	13:45	89	84	88	87			Fine
<b>Average</b>		62						
<b>Max</b>		89						
<b>Min</b>		29						

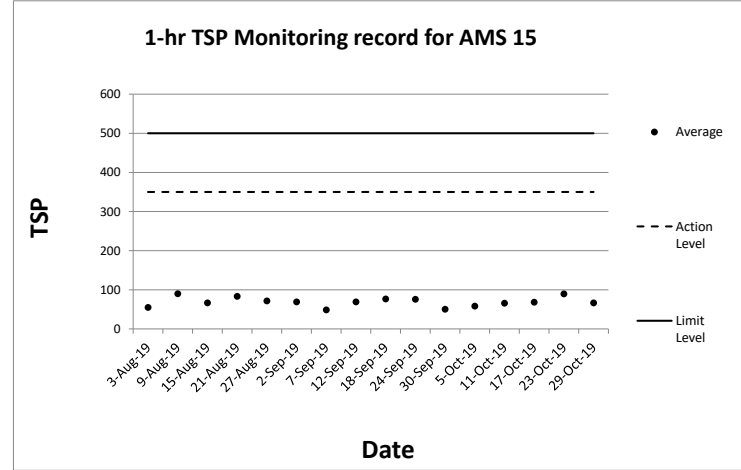
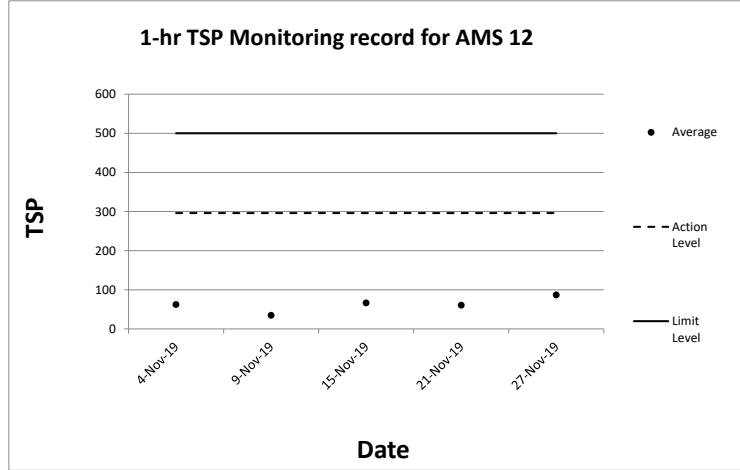
### AMS15 - Ha Wo Che

1-hour TSP ( $\mu\text{g}/\text{m}^3$ )								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
2-Sep-19	11:04	68	71	68	69	350	500	Overcast
7-Sep-19	9:31	52	44	50	49			Fine
12-Sep-19	8:30	70	70	67	69			Fine
18-Sep-19	14:22	78	78	74	77			Fine
24-Sep-19	15:50	77	71	79	76			Sunny
30-Sep-19	14:47	50	53	48	50			Fine
5-Oct-19	15:48	54	60	60	58			Sunny
11-Oct-19	15:26	67	67	63	66			Sunny
17-Oct-19	15:15	63	72	70	68			Fine
23-Oct-19	13:31	91	91	87	90			Sunny
29-Oct-19	10:10	64	68	68	67			Fine
<b>Average</b>		67						
<b>Max</b>		91						
<b>Min</b>		44						

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.







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

**AMS3A - Wai Wah Centre**

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
4/1/2019 9:00	70
4/1/2019 10:00	74
4/1/2019 11:00	81
4/1/2019 12:00	76
4/1/2019 13:00	76
4/1/2019 14:00	72
4/1/2019 15:00	68
4/1/2019 16:00	68
4/1/2019 17:00	76
4/1/2019 18:00	80
4/1/2019 19:00	84
4/1/2019 20:00	87
4/1/2019 21:00	82
4/1/2019 22:00	82
4/1/2019 23:00	76
5/1/2019 0:00	72
5/1/2019 1:00	68
5/1/2019 2:00	74
5/1/2019 3:00	67
5/1/2019 4:00	68
5/1/2019 5:00	70
5/1/2019 6:00	70
5/1/2019 7:00	67
5/1/2019 8:00	96
Average	75
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
9/1/2019 12:04	45
9/1/2019 13:04	49
9/1/2019 14:04	21
9/1/2019 15:04	41
9/1/2019 16:04	51
9/1/2019 17:04	53
9/1/2019 18:04	49
9/1/2019 19:04	45
9/1/2019 20:04	45
9/1/2019 21:04	56
9/1/2019 22:04	47
9/1/2019 23:04	49
10/1/2019 0:04	53
10/1/2019 1:04	45
10/1/2019 2:04	45
10/1/2019 3:04	49
10/1/2019 4:04	53
10/1/2019 5:04	56
10/1/2019 6:04	45
10/1/2019 7:04	47
10/1/2019 8:04	49
10/1/2019 9:04	41
10/1/2019 10:04	51
10/1/2019 11:04	38
Average	47
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
15/1/2019 10:34	65
15/1/2019 11:34	68
15/1/2019 12:34	63
15/1/2019 13:34	66
15/1/2019 14:34	61
15/1/2019 15:34	67
15/1/2019 16:34	68
15/1/2019 17:34	56
15/1/2019 18:34	56
15/1/2019 19:34	70
15/1/2019 20:34	60
15/1/2019 21:34	67
15/1/2019 22:34	70
15/1/2019 23:34	52
16/1/2019 0:34	61
16/1/2019 1:34	71
16/1/2019 2:34	73
16/1/2019 3:34	63
16/1/2019 4:34	64
16/1/2019 5:34	73
16/1/2019 6:34	57
16/1/2019 7:34	72
16/1/2019 8:34	71
16/1/2019 9:34	57
Average	65
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
21/1/2019 9:03	120
21/1/2019 10:03	122
21/1/2019 11:03	118
21/1/2019 12:03	116
21/1/2019 13:03	120
21/1/2019 14:03	122
21/1/2019 15:03	129
21/1/2019 16:03	133
21/1/2019 17:03	138
21/1/2019 18:03	142
21/1/2019 19:03	137
21/1/2019 20:03	135
21/1/2019 21:03	137
21/1/2019 22:03	131
21/1/2019 23:03	127
22/1/2019 0:03	124
22/1/2019 1:03	118
22/1/2019 2:03	114
22/1/2019 3:03	109
22/1/2019 4:03	103
22/1/2019 5:03	107
22/1/2019 6:03	107
22/1/2019 7:03	111
22/1/2019 8:03	114
Average	122
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ( $\mu\text{g}/\text{m}^3$ )
27/1/2019 10:32	74
27/1/2019 11:32	78
27/1/2019 12:32	84
27/1/2019 13:32	87
27/1/2019 14:32	81
27/1/2019 15:32	80
27/1/2019 16:32	78
27/1/2019 17:32	87
27/1/2019 18:32	84
27/1/2019 19:32	93
27/1/2019 20:32	101
27/1/2019 21:32	87
27/1/2019 22:32	88
27/1/2019 23:32	85
28/1/2019 0:32	84
28/1/2019 1:32	82
28/1/2019 2:32	75
28/1/2019 3:32	79
28/1/2019 4:32	72
28/1/2019 5:32	80
28/1/2019 6:32	76
28/1/2019 7:32	81
28/1/2019 8:32	74
28/1/2019 9:32	80
Average	82
Action Level	200
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.

**AMS4A - Wai Wah Centre**

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
3/8/2019 7:00	98
3/8/2019 8:00	87
3/8/2019 9:00	84
3/8/2019 10:00	93
3/8/2019 11:00	96
3/8/2019 12:00	102
3/8/2019 13:00	98
3/8/2019 14:00	102
3/8/2019 15:00	98
3/8/2019 16:00	109
3/8/2019 17:00	103
3/8/2019 18:00	109
3/8/2019 19:00	119
3/8/2019 20:00	119
3/8/2019 21:00	134
3/8/2019 22:00	128
3/8/2019 23:00	128
4/8/2019 0:00	114
4/8/2019 1:00	103
4/8/2019 2:00	109
4/8/2019 3:00	89
4/8/2019 4:00	87
4/8/2019 5:00	86
4/8/2019 6:00	91
Average	104
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
9/8/2019 10:09	77
9/8/2019 11:09	62
9/8/2019 12:09	57
9/8/2019 13:09	67
9/8/2019 14:09	73
9/8/2019 15:09	56
9/8/2019 16:09	60
9/8/2019 17:09	73
9/8/2019 18:09	67
9/8/2019 19:09	90
9/8/2019 20:09	102
9/8/2019 21:09	97
9/8/2019 22:09	95
9/8/2019 23:09	91
10/8/2019 0:09	80
10/8/2019 1:09	76
10/8/2019 2:09	77
10/8/2019 3:09	69
10/8/2019 4:09	53
10/8/2019 5:09	95
10/8/2019 6:09	106
10/8/2019 7:09	101
10/8/2019 8:09	78
10/8/2019 9:09	63
Average	78
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
15/8/2019 9:13	66
15/8/2019 10:13	74
15/8/2019 11:13	63
15/8/2019 12:13	60
15/8/2019 13:13	64
15/8/2019 14:13	69
15/8/2019 15:13	59
15/8/2019 16:13	62
15/8/2019 17:13	70
15/8/2019 18:13	69
15/8/2019 19:13	83
15/8/2019 20:13	95
15/8/2019 21:13	99
15/8/2019 22:13	102
15/8/2019 23:13	95
16/8/2019 0:13	87
16/8/2019 1:13	80
16/8/2019 2:13	76
16/8/2019 3:13	71
16/8/2019 4:13	59
16/8/2019 5:13	81
16/8/2019 6:13	90
16/8/2019 7:13	85
16/8/2019 8:13	81
Average	77
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
21/8/2019 9:47	47
21/8/2019 10:47	42
21/8/2019 11:47	38
21/8/2019 12:47	55
21/8/2019 13:47	47
21/8/2019 14:47	51
21/8/2019 15:47	57
21/8/2019 16:47	53
21/8/2019 17:47	45
21/8/2019 18:47	38
21/8/2019 19:47	60
21/8/2019 20:47	57
21/8/2019 21:47	53
21/8/2019 22:47	62
21/8/2019 23:47	53
22/8/2019 0:47	59
22/8/2019 1:47	51
22/8/2019 2:47	51
22/8/2019 3:47	55
22/8/2019 4:47	59
22/8/2019 5:47	60
22/8/2019 6:47	51
22/8/2019 7:47	47
22/8/2019 8:47	45
Average	51
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
27/8/2019 8:34	74
27/8/2019 9:34	78
27/8/2019 10:34	70
27/8/2019 11:34	94
27/8/2019 12:34	94
27/8/2019 13:34	81
27/8/2019 14:34	81
27/8/2019 15:34	78
27/8/2019 16:34	68
27/8/2019 17:34	70
27/8/2019 18:34	78
27/8/2019 19:34	74
27/8/2019 20:34	74
27/8/2019 21:34	70
27/8/2019 22:34	70
27/8/2019 23:34	83
28/8/2019 0:34	83
28/8/2019 1:34	89
28/8/2019 2:34	87
28/8/2019 3:34	70
28/8/2019 4:34	76
28/8/2019 5:34	80
28/8/2019 6:34	74
28/8/2019 7:34	70
Average	78
Action Level	200
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.

AMS4A - Wai Wah Centre

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
2/9/2019 8:42	94
2/9/2019 9:42	94
2/9/2019 10:42	81
2/9/2019 11:42	78
2/9/2019 12:42	79
2/9/2019 13:42	78
2/9/2019 14:42	78
2/9/2019 15:42	74
2/9/2019 16:42	74
2/9/2019 17:42	81
2/9/2019 18:42	70
2/9/2019 19:42	83
2/9/2019 20:42	89
2/9/2019 21:42	67
2/9/2019 22:42	70
2/9/2019 23:42	74
3/9/2019 0:42	61
3/9/2019 1:42	67
3/9/2019 2:42	78
3/9/2019 3:42	81
3/9/2019 4:42	89
3/9/2019 5:42	89
3/9/2019 6:42	76
3/9/2019 7:42	74
Average	78
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
7/9/2019 9:00	74
7/9/2019 10:00	67
7/9/2019 11:00	78
7/9/2019 12:00	85
7/9/2019 13:00	89
7/9/2019 14:00	96
7/9/2019 15:00	107
7/9/2019 16:00	126
7/9/2019 17:00	133
7/9/2019 18:00	148
7/9/2019 19:00	115
7/9/2019 20:00	72
7/9/2019 21:00	91
7/9/2019 22:00	94
7/9/2019 23:00	118
8/9/2019 0:00	92
8/9/2019 1:00	83
8/9/2019 2:00	67
8/9/2019 3:00	63
8/9/2019 4:00	59
8/9/2019 5:00	55
8/9/2019 6:00	61
8/9/2019 7:00	59
8/9/2019 8:00	55
Average	87
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
12/9/2019 9:01	75
12/9/2019 10:01	77
12/9/2019 11:01	78
12/9/2019 12:01	78
12/9/2019 13:01	78
12/9/2019 14:01	68
12/9/2019 15:01	61
12/9/2019 16:01	62
12/9/2019 17:01	57
12/9/2019 18:01	53
12/9/2019 19:01	71
12/9/2019 20:01	75
12/9/2019 21:01	66
12/9/2019 22:01	61
12/9/2019 23:01	64
13/9/2019 0:01	64
13/9/2019 1:01	62
13/9/2019 2:01	55
13/9/2019 3:01	68
13/9/2019 4:01	69
13/9/2019 5:01	75
13/9/2019 6:01	71
13/9/2019 7:01	73
13/9/2019 8:01	66
Average	68
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
18/9/2019 8:42	111
18/9/2019 9:42	116
18/9/2019 10:42	120
18/9/2019 11:42	118
18/9/2019 12:42	116
18/9/2019 13:42	111
18/9/2019 14:42	120
18/9/2019 15:42	126
18/9/2019 16:42	116
18/9/2019 17:42	118
18/9/2019 18:42	135
18/9/2019 19:42	137
18/9/2019 20:42	146
18/9/2019 21:42	139
18/9/2019 22:42	143
18/9/2019 23:42	135
19/9/2019 0:42	137
19/9/2019 1:42	128
19/9/2019 2:42	120
19/9/2019 3:42	124
19/9/2019 4:42	109
19/9/2019 5:42	99
19/9/2019 6:42	92
19/9/2019 7:42	98
Average	121
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
24/9/2019 9:00	89
24/9/2019 10:00	79
24/9/2019 11:00	87
24/9/2019 12:00	94
24/9/2019 13:00	100
24/9/2019 14:00	108
24/9/2019 15:00	102
24/9/2019 16:00	91
24/9/2019 17:00	79
24/9/2019 18:00	81
24/9/2019 19:00	72
24/9/2019 20:00	64
24/9/2019 21:00	70
24/9/2019 22:00	77
24/9/2019 23:00	81
25/9/2019 0:00	75
25/9/2019 1:00	72
25/9/2019 2:00	60
25/9/2019 3:00	75
25/9/2019 4:00	83
25/9/2019 5:00	89
25/9/2019 6:00	79
25/9/2019 7:00	89
25/9/2019 8:00	83
Average	82
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
30/9/2019 8:34	39
30/9/2019 9:34	48
30/9/2019 10:34	45
30/9/2019 11:34	45
30/9/2019 12:34	41
30/9/2019 13:34	42
30/9/2019 14:34	50
30/9/2019 15:34	48
30/9/2019 16:34	39
30/9/2019 17:34	39
30/9/2019 18:34	48
30/9/2019 19:34	42
30/9/2019 20:34	42
30/9/2019 21:34	41
30/9/2019 22:34	41
30/9/2019 23:34	45
1/10/2019 0:34	48
1/10/2019 1:34	49
1/10/2019 2:34	49
1/10/2019 3:34	36
1/10/2019 4:34	35
1/10/2019 5:34	38
1/10/2019 6:34	39
1/10/2019 7:34	39
Average	43
Action Level	200
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.

**AMS4A - Wai Wah Centre**

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
5/10/2019 8:39	89
5/10/2019 9:39	96
5/10/2019 10:39	96
5/10/2019 11:39	104
5/10/2019 12:39	102
5/10/2019 13:39	104
5/10/2019 14:39	100
5/10/2019 15:39	96
5/10/2019 16:39	104
5/10/2019 17:39	94
5/10/2019 18:39	102
5/10/2019 19:39	89
5/10/2019 20:39	89
5/10/2019 21:39	89
5/10/2019 22:39	93
5/10/2019 23:39	85
6/10/2019 0:39	81
6/10/2019 1:39	85
6/10/2019 2:39	83
6/10/2019 3:39	81
6/10/2019 4:39	89
6/10/2019 5:39	89
6/10/2019 6:39	93
6/10/2019 7:39	96
Average	93
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
11/10/2019 9:42	130
11/10/2019 10:42	136
11/10/2019 11:42	140
11/10/2019 12:42	132
11/10/2019 13:42	124
11/10/2019 14:42	138
11/10/2019 15:42	136
11/10/2019 16:42	147
11/10/2019 17:42	140
11/10/2019 18:42	140
11/10/2019 19:42	138
11/10/2019 20:42	149
11/10/2019 21:42	155
11/10/2019 22:42	157
11/10/2019 23:42	151
12/10/2019 0:42	147
12/10/2019 1:42	158
12/10/2019 2:42	158
12/10/2019 3:42	136
12/10/2019 4:42	134
12/10/2019 5:42	147
12/10/2019 6:42	141
12/10/2019 7:42	140
12/10/2019 8:42	136
Average	142
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
17/10/2019 9:24	66
17/10/2019 10:24	68
17/10/2019 11:24	59
17/10/2019 12:24	62
17/10/2019 13:24	57
17/10/2019 14:24	68
17/10/2019 15:24	69
17/10/2019 16:24	55
17/10/2019 17:24	53
17/10/2019 18:24	68
17/10/2019 19:24	59
17/10/2019 20:24	66
17/10/2019 21:24	69
17/10/2019 22:24	51
17/10/2019 23:24	59
18/10/2019 0:24	71
18/10/2019 1:24	73
18/10/2019 2:24	59
18/10/2019 3:24	66
18/10/2019 4:24	69
18/10/2019 5:24	55
18/10/2019 6:24	71
18/10/2019 7:24	68
18/10/2019 8:24	57
Average	63
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
23/10/2019 9:18	117
23/10/2019 10:18	120
23/10/2019 11:18	115
23/10/2019 12:18	122
23/10/2019 13:18	126
23/10/2019 14:18	131
23/10/2019 15:18	135
23/10/2019 16:18	137
23/10/2019 17:18	139
23/10/2019 18:18	139
23/10/2019 19:18	133
23/10/2019 20:18	135
23/10/2019 21:18	128
23/10/2019 22:18	128
23/10/2019 23:18	115
24/10/2019 0:18	119
24/10/2019 1:18	113
24/10/2019 2:18	107
24/10/2019 3:18	98
24/10/2019 4:18	94
24/10/2019 5:18	102
24/10/2019 6:18	98
24/10/2019 7:18	109
24/10/2019 8:18	113
Average	120
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
29/10/2019 8:32	61
29/10/2019 9:32	65
29/10/2019 10:32	65
29/10/2019 11:32	72
29/10/2019 12:32	68
29/10/2019 13:32	67
29/10/2019 14:32	67
29/10/2019 15:32	72
29/10/2019 16:32	76
29/10/2019 17:32	80
29/10/2019 18:32	84
29/10/2019 19:32	76
29/10/2019 20:32	70
29/10/2019 21:32	70
29/10/2019 22:32	68
29/10/2019 23:32	68
30/10/2019 0:32	61
30/10/2019 1:32	66
30/10/2019 2:32	65
30/10/2019 3:32	68
30/10/2019 4:32	61
30/10/2019 5:32	63
30/10/2019 6:32	65
30/10/2019 7:32	63
Average	68
Action Level	200
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.

**AMS6 - Shatin Plaza**

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
3/8/2019 7:11	57
3/8/2019 8:11	69
3/8/2019 9:11	83
3/8/2019 10:11	90
3/8/2019 11:11	95
3/8/2019 12:11	98
3/8/2019 13:11	104
3/8/2019 14:11	97
3/8/2019 15:11	90
3/8/2019 16:11	80
3/8/2019 17:11	77
3/8/2019 18:11	95
3/8/2019 19:11	95
3/8/2019 20:11	87
3/8/2019 21:11	80
3/8/2019 22:11	71
3/8/2019 23:11	69
4/8/2019 0:11	67
4/8/2019 1:11	70
4/8/2019 2:11	70
4/8/2019 3:11	66
4/8/2019 4:11	70
4/8/2019 5:11	64
4/8/2019 6:11	60
Average	79
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
9/8/2019 11:31	80
9/8/2019 12:31	76
9/8/2019 13:31	77
9/8/2019 14:31	80
9/8/2019 15:31	78
9/8/2019 16:31	59
9/8/2019 17:31	97
9/8/2019 18:31	83
9/8/2019 19:31	78
9/8/2019 20:31	91
9/8/2019 21:31	87
9/8/2019 22:31	90
9/8/2019 23:31	94
10/8/2019 0:31	91
10/8/2019 1:31	78
10/8/2019 2:31	78
10/8/2019 3:31	80
10/8/2019 4:31	63
10/8/2019 5:31	67
10/8/2019 6:31	95
10/8/2019 7:31	98
10/8/2019 8:31	94
10/8/2019 9:31	77
10/8/2019 10:31	64
Average	81
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
15/8/2019 10:43	69
15/8/2019 11:43	81
15/8/2019 12:43	76
15/8/2019 13:43	74
15/8/2019 14:43	80
15/8/2019 15:43	80
15/8/2019 16:43	74
15/8/2019 17:43	77
15/8/2019 18:43	81
15/8/2019 19:43	87
15/8/2019 20:43	90
15/8/2019 21:43	91
15/8/2019 22:43	84
15/8/2019 23:43	94
16/8/2019 0:43	91
16/8/2019 1:43	81
16/8/2019 2:43	83
16/8/2019 3:43	88
16/8/2019 4:43	80
16/8/2019 5:43	81
16/8/2019 6:43	73
16/8/2019 7:43	88
16/8/2019 8:43	92
16/8/2019 9:43	85
Average	83
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
21/8/2019 9:04	55
21/8/2019 10:04	49
21/8/2019 11:04	49
21/8/2019 12:04	46
21/8/2019 13:04	44
21/8/2019 14:04	51
21/8/2019 15:04	53
21/8/2019 16:04	44
21/8/2019 17:04	43
21/8/2019 18:04	55
21/8/2019 19:04	51
21/8/2019 20:04	57
21/8/2019 21:04	57
21/8/2019 22:04	44
21/8/2019 23:04	49
22/8/2019 0:04	53
22/8/2019 1:04	44
22/8/2019 2:04	49
22/8/2019 3:04	53
22/8/2019 4:04	44
22/8/2019 5:04	55
22/8/2019 6:04	57
22/8/2019 7:04	55
22/8/2019 8:04	48
Average	50
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
27/8/2019 9:01	78
27/8/2019 10:01	73
27/8/2019 11:01	70
27/8/2019 12:01	67
27/8/2019 13:01	73
27/8/2019 14:01	62
27/8/2019 15:01	69
27/8/2019 16:01	63
27/8/2019 17:01	67
27/8/2019 18:01	66
27/8/2019 19:01	66
27/8/2019 20:01	55
27/8/2019 21:01	56
27/8/2019 22:01	56
27/8/2019 23:01	59
28/8/2019 0:01	64
28/8/2019 1:01	57
28/8/2019 2:01	59
28/8/2019 3:01	51
28/8/2019 4:01	53
28/8/2019 5:01	54
28/8/2019 6:01	50
28/8/2019 7:01	56
28/8/2019 8:01	57
Average	62
Action Level	165
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.

**AMS6 - Shatin Plaza**

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
2/9/2019 10:11	63
2/9/2019 11:11	63
2/9/2019 12:11	78
2/9/2019 13:11	56
2/9/2019 14:11	78
2/9/2019 15:11	78
2/9/2019 16:11	64
2/9/2019 17:11	78
2/9/2019 18:11	57
2/9/2019 19:11	60
2/9/2019 20:11	60
2/9/2019 21:11	70
2/9/2019 22:11	50
2/9/2019 23:11	70
3/9/2019 0:11	55
3/9/2019 1:11	78
3/9/2019 2:11	56
3/9/2019 3:11	56
3/9/2019 4:11	45
3/9/2019 5:11	45
3/9/2019 6:11	46
3/9/2019 7:11	42
3/9/2019 8:11	50
3/9/2019 9:11	52
Average	60
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
7/9/2019 9:30	97
7/9/2019 10:30	99
7/9/2019 11:30	107
7/9/2019 12:30	105
7/9/2019 13:30	103
7/9/2019 14:30	99
7/9/2019 15:30	105
7/9/2019 16:30	92
7/9/2019 17:30	105
7/9/2019 18:30	101
7/9/2019 19:30	97
7/9/2019 20:30	105
7/9/2019 21:30	96
7/9/2019 22:30	109
7/9/2019 23:30	109
8/9/2019 0:30	75
8/9/2019 1:30	84
8/9/2019 2:30	79
8/9/2019 3:30	82
8/9/2019 4:30	77
8/9/2019 5:30	92
8/9/2019 6:30	81
8/9/2019 7:30	75
8/9/2019 8:30	75
Average	94
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
12/9/2019 10:30	55
12/9/2019 11:30	59
12/9/2019 12:30	63
12/9/2019 13:30	67
12/9/2019 14:30	55
12/9/2019 15:30	55
12/9/2019 16:30	56
12/9/2019 17:30	50
12/9/2019 18:30	50
12/9/2019 19:30	45
12/9/2019 20:30	48
12/9/2019 21:30	48
12/9/2019 22:30	55
12/9/2019 23:30	56
13/9/2019 0:30	56
13/9/2019 1:30	42
13/9/2019 2:30	45
13/9/2019 3:30	48
13/9/2019 4:30	50
13/9/2019 5:30	45
13/9/2019 6:30	46
13/9/2019 7:30	63
13/9/2019 8:30	56
13/9/2019 9:30	53
Average	53
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
18/9/2019 8:58	78
18/9/2019 9:58	85
18/9/2019 10:58	80
18/9/2019 11:58	76
18/9/2019 12:58	80
18/9/2019 13:58	81
18/9/2019 14:58	76
18/9/2019 15:58	81
18/9/2019 16:58	91
18/9/2019 17:58	98
18/9/2019 18:58	106
18/9/2019 19:58	104
18/9/2019 20:58	107
18/9/2019 21:58	91
18/9/2019 22:58	89
18/9/2019 23:58	94
19/9/2019 0:58	100
19/9/2019 1:58	89
19/9/2019 2:58	91
19/9/2019 3:58	96
19/9/2019 4:58	98
19/9/2019 5:58	100
19/9/2019 6:58	94
19/9/2019 7:58	83
Average	90
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
24/9/2019 8:40	65
24/9/2019 9:40	73
24/9/2019 10:40	81
24/9/2019 11:40	65
24/9/2019 12:40	92
24/9/2019 13:40	100
24/9/2019 14:40	90
24/9/2019 15:40	81
24/9/2019 16:40	86
24/9/2019 17:40	77
24/9/2019 18:40	71
24/9/2019 19:40	67
24/9/2019 20:40	73
24/9/2019 21:40	65
24/9/2019 22:40	62
24/9/2019 23:40	67
25/9/2019 0:40	73
25/9/2019 1:40	77
25/9/2019 2:40	81
25/9/2019 3:40	79
25/9/2019 4:40	73
25/9/2019 5:40	85
25/9/2019 6:40	86
25/9/2019 7:40	83
Average	77
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
30/9/2019 10:11	32
30/9/2019 11:11	36
30/9/2019 12:11	38
30/9/2019 13:11	41
30/9/2019 14:11	41
30/9/2019 15:11	35
30/9/2019 16:11	35
30/9/2019 17:11	43
30/9/2019 18:11	43
30/9/2019 19:11	48
30/9/2019 20:11	45
30/9/2019 21:11	42
30/9/2019 22:11	36
30/9/2019 23:11	39
1/10/2019 0:11	39
1/10/2019 1:11	48
1/10/2019 2:11	50
1/10/2019 3:11	50
1/10/2019 4:11	53
1/10/2019 5:11	53
1/10/2019 6:11	48
1/10/2019 7:11	49
1/10/2019 8:11	45
1/10/2019 9:11	42
Average	43
Action Level	165
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.

**AMS6 - Shatin Plaza**

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
5/10/2019 9:31	57
5/10/2019 10:31	53
5/10/2019 11:31	49
5/10/2019 12:31	49
5/10/2019 13:31	55
5/10/2019 14:31	55
5/10/2019 15:31	60
5/10/2019 16:31	62
5/10/2019 17:31	70
5/10/2019 18:31	62
5/10/2019 19:31	60
5/10/2019 20:31	64
5/10/2019 21:31	57
5/10/2019 22:31	68
5/10/2019 23:31	64
6/10/2019 0:31	60
6/10/2019 1:31	64
6/10/2019 2:31	64
6/10/2019 3:31	60
6/10/2019 4:31	64
6/10/2019 5:31	57
6/10/2019 6:31	68
6/10/2019 7:31	64
6/10/2019 8:31	60
Average	60
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
11/10/2019 9:12	101
11/10/2019 10:12	97
11/10/2019 11:12	101
11/10/2019 12:12	109
11/10/2019 13:12	105
11/10/2019 14:12	109
11/10/2019 15:12	107
11/10/2019 16:12	116
11/10/2019 17:12	114
11/10/2019 18:12	112
11/10/2019 19:12	116
11/10/2019 20:12	120
11/10/2019 21:12	111
11/10/2019 22:12	109
11/10/2019 23:12	124
12/10/2019 0:12	127
12/10/2019 1:12	116
12/10/2019 2:12	101
12/10/2019 3:12	99
12/10/2019 4:12	90
12/10/2019 5:12	86
12/10/2019 6:12	96
12/10/2019 7:12	96
12/10/2019 8:12	97
Average	107
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
17/10/2019 8:35	73
17/10/2019 9:35	67
17/10/2019 10:35	60
17/10/2019 11:35	56
17/10/2019 12:35	67
17/10/2019 13:35	69
17/10/2019 14:35	60
17/10/2019 15:35	64
17/10/2019 16:35	67
17/10/2019 17:35	75
17/10/2019 18:35	58
17/10/2019 19:35	60
17/10/2019 20:35	79
17/10/2019 21:35	73
17/10/2019 22:35	67
17/10/2019 23:35	71
18/10/2019 0:35	54
18/10/2019 1:35	56
18/10/2019 2:35	52
18/10/2019 3:35	62
18/10/2019 4:35	64
18/10/2019 5:35	73
18/10/2019 6:35	79
18/10/2019 7:35	67
Average	66
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
23/10/2019 8:45	81
23/10/2019 9:45	83
23/10/2019 10:45	89
23/10/2019 11:45	81
23/10/2019 12:45	85
23/10/2019 13:45	93
23/10/2019 14:45	89
23/10/2019 15:45	91
23/10/2019 16:45	89
23/10/2019 17:45	100
23/10/2019 18:45	96
23/10/2019 19:45	102
23/10/2019 20:45	98
23/10/2019 21:45	91
23/10/2019 22:45	87
23/10/2019 23:45	91
24/10/2019 0:45	79
24/10/2019 1:45	83
24/10/2019 2:45	91
24/10/2019 3:45	77
24/10/2019 4:45	79
24/10/2019 5:45	74
24/10/2019 6:45	81
24/10/2019 7:45	87
Average	87
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
29/10/2019 8:48	54
29/10/2019 9:48	56
29/10/2019 10:48	49
29/10/2019 11:48	49
29/10/2019 12:48	45
29/10/2019 13:48	52
29/10/2019 14:48	60
29/10/2019 15:48	56
29/10/2019 16:48	50
29/10/2019 17:48	52
29/10/2019 18:48	47
29/10/2019 19:48	58
29/10/2019 20:48	64
29/10/2019 21:48	65
29/10/2019 22:48	60
29/10/2019 23:48	56
30/10/2019 0:48	52
30/10/2019 1:48	49
30/10/2019 2:48	47
30/10/2019 3:48	52
30/10/2019 4:48	52
30/10/2019 5:48	60
30/10/2019 6:48	58
30/10/2019 7:48	54
Average	54
Action Level	165
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.



**AMS6 - Shatin Plaza**

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
4/1/2019 9:14	57
4/1/2019 10:14	59
4/1/2019 11:14	63
4/1/2019 12:14	52
4/1/2019 13:14	54
4/1/2019 14:14	56
4/1/2019 15:14	56
4/1/2019 16:14	52
4/1/2019 17:14	50
4/1/2019 18:14	48
4/1/2019 19:14	54
4/1/2019 20:14	56
4/1/2019 21:14	63
4/1/2019 22:14	57
4/1/2019 23:14	56
5/1/2019 0:14	52
5/1/2019 1:14	50
5/1/2019 2:14	46
5/1/2019 3:14	52
5/1/2019 4:14	52
5/1/2019 5:14	48
5/1/2019 6:14	46
5/1/2019 7:14	54
5/1/2019 8:14	60
Average	54
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
9/1/2019 12:26	37
9/1/2019 13:26	41
9/1/2019 14:26	44
9/1/2019 15:26	48
9/1/2019 16:26	39
9/1/2019 17:26	39
9/1/2019 18:26	39
9/1/2019 19:26	39
9/1/2019 20:26	48
9/1/2019 21:26	44
9/1/2019 22:26	41
9/1/2019 23:26	37
10/1/2019 0:26	31
10/1/2019 1:26	33
10/1/2019 2:26	33
10/1/2019 3:26	39
10/1/2019 4:26	41
10/1/2019 5:26	44
10/1/2019 6:26	35
10/1/2019 7:26	37
10/1/2019 8:26	39
10/1/2019 9:26	41
10/1/2019 10:26	37
10/1/2019 11:26	43
Average	40
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
15/1/2019 13:11	71
15/1/2019 14:11	73
15/1/2019 15:11	66
15/1/2019 16:11	65
15/1/2019 17:11	65
15/1/2019 18:11	71
15/1/2019 19:11	73
15/1/2019 20:11	62
15/1/2019 21:11	57
15/1/2019 22:11	71
15/1/2019 23:11	67
16/1/2019 0:11	72
16/1/2019 1:11	72
16/1/2019 2:11	55
16/1/2019 3:11	62
16/1/2019 4:11	77
16/1/2019 5:11	78
16/1/2019 6:11	65
16/1/2019 7:11	67
16/1/2019 8:11	74
16/1/2019 9:11	57
16/1/2019 10:11	73
16/1/2019 11:11	71
16/1/2019 12:11	65
Average	68
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
21/1/2019 9:15	90
21/1/2019 10:15	93
21/1/2019 11:15	88
21/1/2019 12:15	91
21/1/2019 13:15	97
21/1/2019 14:15	103
21/1/2019 15:15	109
21/1/2019 16:15	107
21/1/2019 17:15	111
21/1/2019 18:15	105
21/1/2019 19:15	101
21/1/2019 20:15	109
21/1/2019 21:15	107
21/1/2019 22:15	113
21/1/2019 23:15	107
22/1/2019 0:15	95
22/1/2019 1:15	91
22/1/2019 2:15	91
22/1/2019 3:15	95
22/1/2019 4:15	91
22/1/2019 5:15	88
22/1/2019 6:15	90
22/1/2019 7:15	88
22/1/2019 8:15	86
Average	98
Action Level	165
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
27/1/2019 11:44	64
27/1/2019 12:44	70
27/1/2019 13:44	65
27/1/2019 14:44	55
27/1/2019 15:44	58
27/1/2019 16:44	62
27/1/2019 17:44	75
27/1/2019 18:44	74
27/1/2019 19:44	66
27/1/2019 20:44	62
27/1/2019 21:44	60
27/1/2019 22:44	71
27/1/2019 23:44	70
28/1/2019 0:44	74
28/1/2019 1:44	72
28/1/2019 2:44	71
28/1/2019 3:44	67
28/1/2019 4:44	57
28/1/2019 5:44	57
28/1/2019 6:44	61
28/1/2019 7:44	70
28/1/2019 8:44	72
28/1/2019 9:44	76
28/1/2019 10:44	65
Average	66
Action Level	165
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.

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Date and Time	TSP Concentration (ug/m <sup>3</sup> )
3/8/2019 7:00	82
3/8/2019 8:00	81
3/8/2019 9:00	82
3/8/2019 10:00	84
3/8/2019 11:00	88
3/8/2019 12:00	92
3/8/2019 13:00	96
3/8/2019 14:00	97
3/8/2019 15:00	97
3/8/2019 16:00	101
3/8/2019 17:00	99
3/8/2019 18:00	99
3/8/2019 19:00	97
3/8/2019 20:00	101
3/8/2019 21:00	96
3/8/2019 22:00	99
3/8/2019 23:00	94
4/8/2019 0:00	86
4/8/2019 1:00	86
4/8/2019 2:00	88
4/8/2019 3:00	86
4/8/2019 4:00	79
4/8/2019 5:00	75
4/8/2019 6:00	79
Average	90
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
9/8/2019 7:06	52
9/8/2019 8:06	62
9/8/2019 9:06	62
9/8/2019 10:06	64
9/8/2019 11:06	71
9/8/2019 12:06	77
9/8/2019 13:06	67
9/8/2019 14:06	66
9/8/2019 15:06	66
9/8/2019 16:06	71
9/8/2019 17:06	75
9/8/2019 18:06	79
9/8/2019 19:06	82
9/8/2019 20:06	81
9/8/2019 21:06	90
9/8/2019 22:06	84
9/8/2019 23:06	86
10/8/2019 0:06	79
10/8/2019 1:06	75
10/8/2019 2:06	77
10/8/2019 3:06	67
10/8/2019 4:06	64
10/8/2019 5:06	58
10/8/2019 6:06	54
Average	71
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
15/8/2019 11:48	78
15/8/2019 12:48	74
15/8/2019 13:48	69
15/8/2019 14:48	69
15/8/2019 15:48	67
15/8/2019 16:48	70
15/8/2019 17:48	65
15/8/2019 18:48	74
15/8/2019 19:48	72
15/8/2019 20:48	69
15/8/2019 21:48	67
15/8/2019 22:48	70
15/8/2019 23:48	78
16/8/2019 0:48	83
16/8/2019 1:48	80
16/8/2019 2:48	76
16/8/2019 3:48	81
16/8/2019 4:48	80
16/8/2019 5:48	76
16/8/2019 6:48	74
16/8/2019 7:48	70
16/8/2019 8:48	72
16/8/2019 9:48	65
16/8/2019 10:48	57
Average	72
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
21/8/2019 8:30	66
21/8/2019 9:30	77
21/8/2019 10:30	70
21/8/2019 11:30	50
21/8/2019 12:30	77
21/8/2019 13:30	94
21/8/2019 14:30	101
21/8/2019 15:30	87
21/8/2019 16:30	68
21/8/2019 17:30	81
21/8/2019 18:30	61
21/8/2019 19:30	66
21/8/2019 20:30	57
21/8/2019 21:30	63
21/8/2019 22:30	70
21/8/2019 23:30	79
22/8/2019 0:30	87
22/8/2019 1:30	70
22/8/2019 2:30	59
22/8/2019 3:30	61
22/8/2019 4:30	72
22/8/2019 5:30	79
22/8/2019 6:30	68
22/8/2019 7:30	77
Average	73
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
27/8/2019 9:23	50
27/8/2019 10:23	50
27/8/2019 11:23	55
27/8/2019 12:23	73
27/8/2019 13:23	81
27/8/2019 14:23	63
27/8/2019 15:23	63
27/8/2019 16:23	56
27/8/2019 17:23	56
27/8/2019 18:23	56
27/8/2019 19:23	64
27/8/2019 20:23	63
27/8/2019 21:23	70
27/8/2019 22:23	52
27/8/2019 23:23	51
28/8/2019 0:23	55
28/8/2019 1:23	56
28/8/2019 2:23	78
28/8/2019 3:23	78
28/8/2019 4:23	57
28/8/2019 5:23	64
28/8/2019 6:23	60
28/8/2019 7:23	78
28/8/2019 8:23	52
Average	72
Action Level	171
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.

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Date and Time	TSP Concentration (ug/m <sup>3</sup> )
2/9/2019 9:10	67
2/9/2019 10:10	67
2/9/2019 11:10	67
2/9/2019 12:10	69
2/9/2019 13:10	55
2/9/2019 14:10	66
2/9/2019 15:10	63
2/9/2019 16:10	62
2/9/2019 17:10	62
2/9/2019 18:10	56
2/9/2019 19:10	59
2/9/2019 20:10	56
2/9/2019 21:10	50
2/9/2019 22:10	53
2/9/2019 23:10	55
3/9/2019 0:10	62
3/9/2019 1:10	56
3/9/2019 2:10	66
3/9/2019 3:10	63
3/9/2019 4:10	45
3/9/2019 5:10	48
3/9/2019 6:10	45
3/9/2019 7:10	46
3/9/2019 8:10	45
Average	58
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
7/9/2019 9:18	86
7/9/2019 10:18	83
7/9/2019 11:18	79
7/9/2019 12:18	81
7/9/2019 13:18	81
7/9/2019 14:18	83
7/9/2019 15:18	83
7/9/2019 16:18	90
7/9/2019 17:18	92
7/9/2019 18:18	98
7/9/2019 19:18	103
7/9/2019 20:18	107
7/9/2019 21:18	101
7/9/2019 22:18	83
7/9/2019 23:18	79
8/9/2019 0:18	86
8/9/2019 1:18	90
8/9/2019 2:18	90
8/9/2019 3:18	99
8/9/2019 4:18	98
8/9/2019 5:18	101
8/9/2019 6:18	96
8/9/2019 7:18	92
8/9/2019 8:18	90
Average	90
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
12/9/2019 10:08	50
12/9/2019 11:08	52
12/9/2019 12:08	70
12/9/2019 13:08	78
12/9/2019 14:08	62
12/9/2019 15:08	62
12/9/2019 16:08	70
12/9/2019 17:08	70
12/9/2019 18:08	50
12/9/2019 19:08	50
12/9/2019 20:08	63
12/9/2019 21:08	66
12/9/2019 22:08	67
12/9/2019 23:08	64
13/9/2019 0:08	78
13/9/2019 1:08	53
13/9/2019 2:08	50
13/9/2019 3:08	49
13/9/2019 4:08	50
13/9/2019 5:08	50
13/9/2019 6:08	56
13/9/2019 7:08	78
13/9/2019 8:08	62
13/9/2019 9:08	56
Average	61
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
18/9/2019 9:16	84
18/9/2019 10:16	88
18/9/2019 11:16	93
18/9/2019 12:16	99
18/9/2019 13:16	102
18/9/2019 14:16	99
18/9/2019 15:16	101
18/9/2019 16:16	97
18/9/2019 17:16	95
18/9/2019 18:16	88
18/9/2019 19:16	90
18/9/2019 20:16	95
18/9/2019 21:16	102
18/9/2019 22:16	99
18/9/2019 23:16	102
19/9/2019 0:16	99
19/9/2019 1:16	97
19/9/2019 2:16	88
19/9/2019 3:16	84
19/9/2019 4:16	88
19/9/2019 5:16	86
19/9/2019 6:16	86
19/9/2019 7:16	88
19/9/2019 8:16	86
Average	93
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
24/9/2019 8:30	77
24/9/2019 9:30	80
24/9/2019 10:30	91
24/9/2019 11:30	99
24/9/2019 12:30	106
24/9/2019 13:30	117
24/9/2019 14:30	110
24/9/2019 15:30	104
24/9/2019 16:30	99
24/9/2019 17:30	101
24/9/2019 18:30	91
24/9/2019 19:30	82
24/9/2019 20:30	73
24/9/2019 21:30	79
24/9/2019 22:30	69
24/9/2019 23:30	66
25/9/2019 0:30	73
25/9/2019 1:30	77
25/9/2019 2:30	80
25/9/2019 3:30	73
25/9/2019 4:30	68
25/9/2019 5:30	75
25/9/2019 6:30	82
25/9/2019 7:30	79
Average	85
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
30/9/2019 9:44	41
30/9/2019 10:44	50
30/9/2019 11:44	52
30/9/2019 12:44	52
30/9/2019 13:44	59
30/9/2019 14:44	59
30/9/2019 15:44	63
30/9/2019 16:44	65
30/9/2019 17:44	63
30/9/2019 18:44	54
30/9/2019 19:44	54
30/9/2019 20:44	48
30/9/2019 21:44	52
30/9/2019 22:44	52
30/9/2019 23:44	56
1/10/2019 0:44	59
1/10/2019 1:44	67
1/10/2019 2:44	74
1/10/2019 3:44	76
1/10/2019 4:44	65
1/10/2019 5:44	63
1/10/2019 6:44	59
1/10/2019 7:44	59
1/10/2019 8:44	54
Average	58
Action Level	171
Limit Level	260

- Remark
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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.

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Date and Time	TSP Concentration (ug/m <sup>3</sup> )
5/10/2019 8:39	89
5/10/2019 9:39	96
5/10/2019 10:39	96
5/10/2019 11:39	104
5/10/2019 12:39	102
5/10/2019 13:39	104
5/10/2019 14:39	100
5/10/2019 15:39	96
5/10/2019 16:39	104
5/10/2019 17:39	94
5/10/2019 18:39	102
5/10/2019 19:39	89
5/10/2019 20:39	89
5/10/2019 21:39	89
5/10/2019 22:39	93
5/10/2019 23:39	85
6/10/2019 0:39	81
6/10/2019 1:39	85
6/10/2019 2:39	83
6/10/2019 3:39	81
6/10/2019 4:39	89
6/10/2019 5:39	89
6/10/2019 6:39	93
6/10/2019 7:39	96
Average	93
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
11/10/2019 9:42	130
11/10/2019 10:42	136
11/10/2019 11:42	140
11/10/2019 12:42	132
11/10/2019 13:42	124
11/10/2019 14:42	138
11/10/2019 15:42	136
11/10/2019 16:42	147
11/10/2019 17:42	140
11/10/2019 18:42	140
11/10/2019 19:42	138
11/10/2019 20:42	149
11/10/2019 21:42	155
11/10/2019 22:42	157
11/10/2019 23:42	151
12/10/2019 0:42	147
12/10/2019 1:42	158
12/10/2019 2:42	158
12/10/2019 3:42	136
12/10/2019 4:42	134
12/10/2019 5:42	147
12/10/2019 6:42	141
12/10/2019 7:42	140
12/10/2019 8:42	136
Average	142
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
17/10/2019 9:24	66
17/10/2019 10:24	68
17/10/2019 11:24	59
17/10/2019 12:24	62
17/10/2019 13:24	57
17/10/2019 14:24	68
17/10/2019 15:24	69
17/10/2019 16:24	55
17/10/2019 17:24	53
17/10/2019 18:24	68
17/10/2019 19:24	59
17/10/2019 20:24	66
17/10/2019 21:24	69
17/10/2019 22:24	51
17/10/2019 23:24	59
18/10/2019 0:24	71
18/10/2019 1:24	73
18/10/2019 2:24	59
18/10/2019 3:24	66
18/10/2019 4:24	69
18/10/2019 5:24	55
18/10/2019 6:24	71
18/10/2019 7:24	68
18/10/2019 8:24	57
Average	63
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
23/10/2019 9:18	117
23/10/2019 10:18	120
23/10/2019 11:18	115
23/10/2019 12:18	122
23/10/2019 13:18	126
23/10/2019 14:18	131
23/10/2019 15:18	135
23/10/2019 16:18	137
23/10/2019 17:18	139
23/10/2019 18:18	139
23/10/2019 19:18	133
23/10/2019 20:18	135
23/10/2019 21:18	128
23/10/2019 22:18	128
23/10/2019 23:18	115
24/10/2019 0:18	119
24/10/2019 1:18	113
24/10/2019 2:18	107
24/10/2019 3:18	98
24/10/2019 4:18	94
24/10/2019 5:18	102
24/10/2019 6:18	98
24/10/2019 7:18	109
24/10/2019 8:18	113
Average	120
Action Level	200
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
29/10/2019 8:32	61
29/10/2019 9:32	65
29/10/2019 10:32	65
29/10/2019 11:32	72
29/10/2019 12:32	68
29/10/2019 13:32	67
29/10/2019 14:32	67
29/10/2019 15:32	72
29/10/2019 16:32	76
29/10/2019 17:32	80
29/10/2019 18:32	84
29/10/2019 19:32	76
29/10/2019 20:32	70
29/10/2019 21:32	70
29/10/2019 22:32	68
29/10/2019 23:32	68
30/10/2019 0:32	61
30/10/2019 1:32	66
30/10/2019 2:32	65
30/10/2019 3:32	68
30/10/2019 4:32	61
30/10/2019 5:32	63
30/10/2019 6:32	65
30/10/2019 7:32	63
Average	68
Action Level	200
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.

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Date and Time	TSP Concentration (ug/m <sup>3</sup> )
4/1/2019 10:02	76
4/1/2019 11:02	76
4/1/2019 12:02	79
4/1/2019 13:02	81
4/1/2019 14:02	81
4/1/2019 15:02	76
4/1/2019 16:02	70
4/1/2019 17:02	66
4/1/2019 18:02	60
4/1/2019 19:02	72
4/1/2019 20:02	70
4/1/2019 21:02	66
4/1/2019 22:02	68
4/1/2019 23:02	74
5/1/2019 0:02	70
5/1/2019 1:02	68
5/1/2019 2:02	74
5/1/2019 3:02	66
5/1/2019 4:02	62
5/1/2019 5:02	68
5/1/2019 6:02	68
5/1/2019 7:02	74
5/1/2019 8:02	74
5/1/2019 9:02	72
Average	71
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
9/1/2019 13:26	31
9/1/2019 14:26	29
9/1/2019 15:26	39
9/1/2019 16:26	44
9/1/2019 17:26	37
9/1/2019 18:26	31
9/1/2019 19:26	33
9/1/2019 20:26	40
9/1/2019 21:26	48
9/1/2019 22:26	40
9/1/2019 23:26	37
10/1/2019 0:26	31
10/1/2019 1:26	29
10/1/2019 2:26	28
10/1/2019 3:26	31
10/1/2019 4:26	35
10/1/2019 5:26	37
10/1/2019 6:26	39
10/1/2019 7:26	37
10/1/2019 8:26	41
10/1/2019 9:26	37
10/1/2019 10:26	34
10/1/2019 11:26	42
10/1/2019 12:26	37
Average	36
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
15/1/2019 14:44	71
15/1/2019 15:44	63
15/1/2019 16:44	69
15/1/2019 17:44	74
15/1/2019 18:44	72
15/1/2019 19:44	58
15/1/2019 20:44	61
15/1/2019 21:44	55
15/1/2019 22:44	66
15/1/2019 23:44	68
16/1/2019 0:44	77
16/1/2019 1:44	61
16/1/2019 2:44	84
16/1/2019 3:44	80
16/1/2019 4:44	73
16/1/2019 5:44	73
16/1/2019 6:44	64
16/1/2019 7:44	67
16/1/2019 8:44	60
16/1/2019 9:44	59
16/1/2019 10:44	69
16/1/2019 11:44	70
16/1/2019 12:44	57
16/1/2019 13:44	63
Average	67
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
21/1/2019 9:28	76
21/1/2019 10:28	80
21/1/2019 11:28	76
21/1/2019 12:28	80
21/1/2019 13:28	82
21/1/2019 14:28	87
21/1/2019 15:28	89
21/1/2019 16:28	87
21/1/2019 17:28	82
21/1/2019 18:28	93
21/1/2019 19:28	100
21/1/2019 20:28	91
21/1/2019 21:28	89
21/1/2019 22:28	82
21/1/2019 23:28	87
22/1/2019 0:28	82
22/1/2019 1:28	80
22/1/2019 2:28	76
22/1/2019 3:28	78
22/1/2019 4:28	82
22/1/2019 5:28	82
22/1/2019 6:28	85
22/1/2019 7:28	83
22/1/2019 8:28	87
Average	84
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
27/1/2019 13:16	71
27/1/2019 14:16	56
27/1/2019 15:16	53
27/1/2019 16:16	43
27/1/2019 17:16	51
27/1/2019 18:16	63
27/1/2019 19:16	65
27/1/2019 20:16	60
27/1/2019 21:16	59
27/1/2019 22:16	55
27/1/2019 23:16	60
28/1/2019 0:16	66
28/1/2019 1:16	72
28/1/2019 2:16	70
28/1/2019 3:16	65
28/1/2019 4:16	61
28/1/2019 5:16	62
28/1/2019 6:16	54
28/1/2019 7:16	61
28/1/2019 8:16	61
28/1/2019 9:16	66
28/1/2019 10:16	72
28/1/2019 11:16	69
28/1/2019 12:16	60
Average	61
Action Level	171
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.

**AMS 12 - Fung Wo Estate**

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
4/1/2019 10:20	58
4/1/2019 11:20	56
4/1/2019 12:20	65
4/1/2019 13:20	60
4/1/2019 14:20	60
4/1/2019 15:20	67
4/1/2019 16:20	71
4/1/2019 17:20	60
4/1/2019 18:20	56
4/1/2019 19:20	52
4/1/2019 20:20	49
4/1/2019 21:20	54
4/1/2019 22:20	50
4/1/2019 23:20	50
5/1/2019 0:20	47
5/1/2019 1:20	54
5/1/2019 2:20	56
5/1/2019 3:20	45
5/1/2019 4:20	43
5/1/2019 5:20	49
5/1/2019 6:20	56
5/1/2019 7:20	60
5/1/2019 8:20	60
5/1/2019 9:20	56
Average	56
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
9/1/2019 14:02	31
9/1/2019 15:02	31
9/1/2019 16:02	27
9/1/2019 17:02	33
9/1/2019 18:02	36
9/1/2019 19:02	40
9/1/2019 20:02	36
9/1/2019 21:02	29
9/1/2019 22:02	29
9/1/2019 23:02	33
10/1/2019 0:02	36
10/1/2019 1:02	36
10/1/2019 2:02	27
10/1/2019 3:02	27
10/1/2019 4:02	29
10/1/2019 5:02	29
10/1/2019 6:02	33
10/1/2019 7:02	25
10/1/2019 8:02	25
10/1/2019 9:02	29
10/1/2019 10:02	27
10/1/2019 11:02	27
10/1/2019 12:02	29
10/1/2019 13:02	25
Average	31
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
15/1/2019 15:20	61
15/1/2019 16:20	68
15/1/2019 17:20	66
15/1/2019 18:20	71
15/1/2019 19:20	60
15/1/2019 20:20	67
15/1/2019 21:20	72
15/1/2019 22:20	70
15/1/2019 23:20	57
16/1/2019 0:20	60
16/1/2019 1:20	68
16/1/2019 2:20	68
16/1/2019 3:20	65
16/1/2019 4:20	66
16/1/2019 5:20	58
16/1/2019 6:20	75
16/1/2019 7:20	75
16/1/2019 8:20	72
16/1/2019 9:20	68
16/1/2019 10:20	56
16/1/2019 11:20	56
16/1/2019 12:20	67
16/1/2019 13:20	58
16/1/2019 14:20	70
Average	66
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
21/1/2019 9:37	58
21/1/2019 10:37	60
21/1/2019 11:37	64
21/1/2019 12:37	64
21/1/2019 13:37	66
21/1/2019 14:37	58
21/1/2019 15:37	58
21/1/2019 16:37	66
21/1/2019 17:37	64
21/1/2019 18:37	57
21/1/2019 19:37	66
21/1/2019 20:37	64
21/1/2019 21:37	60
21/1/2019 22:37	57
21/1/2019 23:37	55
22/1/2019 0:37	55
22/1/2019 1:37	51
22/1/2019 2:37	47
22/1/2019 3:37	57
22/1/2019 4:37	64
22/1/2019 5:37	62
22/1/2019 6:37	66
22/1/2019 7:37	62
22/1/2019 8:37	66
Average	60
Action Level	168
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
27/1/2019 13:45	71
27/1/2019 14:45	81
27/1/2019 15:45	80
27/1/2019 16:45	76
27/1/2019 17:45	72
27/1/2019 18:45	76
27/1/2019 19:45	80
27/1/2019 20:45	82
27/1/2019 21:45	89
27/1/2019 22:45	84
27/1/2019 23:45	88
28/1/2019 0:45	87
28/1/2019 1:45	83
28/1/2019 2:45	76
28/1/2019 3:45	79
28/1/2019 4:45	84
28/1/2019 5:45	86
28/1/2019 6:45	88
28/1/2019 7:45	94
28/1/2019 8:45	87
28/1/2019 9:45	80
28/1/2019 10:45	83
28/1/2019 11:45	78
28/1/2019 12:45	77
Average	82
Action Level	168
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.

**AMS15 - Ha Wo Che**

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
3/8/2019 7:00	44
3/8/2019 8:00	42
3/8/2019 9:00	48
3/8/2019 10:00	52
3/8/2019 11:00	50
3/8/2019 12:00	52
3/8/2019 13:00	50
3/8/2019 14:00	54
3/8/2019 15:00	54
3/8/2019 16:00	56
3/8/2019 17:00	50
3/8/2019 18:00	52
3/8/2019 19:00	58
3/8/2019 20:00	62
3/8/2019 21:00	62
3/8/2019 22:00	60
3/8/2019 23:00	58
4/8/2019 0:00	56
4/8/2019 1:00	54
4/8/2019 2:00	50
4/8/2019 3:00	56
4/8/2019 4:00	52
4/8/2019 5:00	48
4/8/2019 6:00	48
Average	53
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
9/8/2019 9:41	81
9/8/2019 10:41	89
9/8/2019 11:41	79
9/8/2019 12:41	87
9/8/2019 13:41	81
9/8/2019 14:41	87
9/8/2019 15:41	92
9/8/2019 16:41	91
9/8/2019 17:41	85
9/8/2019 18:41	83
9/8/2019 19:41	85
9/8/2019 20:41	79
9/8/2019 21:41	75
9/8/2019 22:41	71
9/8/2019 23:41	68
10/8/2019 0:41	64
10/8/2019 1:41	69
10/8/2019 2:41	66
10/8/2019 3:41	73
10/8/2019 4:41	69
10/8/2019 5:41	68
10/8/2019 6:41	68
10/8/2019 7:41	71
10/8/2019 8:41	73
Average	77
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
15/8/2019 11:59	65
15/8/2019 12:59	63
15/8/2019 13:59	59
15/8/2019 14:59	67
15/8/2019 15:59	68
15/8/2019 16:59	68
15/8/2019 17:59	63
15/8/2019 18:59	57
15/8/2019 19:59	65
15/8/2019 20:59	72
15/8/2019 21:59	68
15/8/2019 22:59	70
15/8/2019 23:59	78
16/8/2019 0:59	81
16/8/2019 1:59	74
16/8/2019 2:59	70
16/8/2019 3:59	67
16/8/2019 4:59	68
16/8/2019 5:59	70
16/8/2019 6:59	67
16/8/2019 7:59	65
16/8/2019 8:59	61
16/8/2019 9:59	59
16/8/2019 10:59	59
Average	67
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
21/8/2019 8:50	78
21/8/2019 9:50	88
21/8/2019 10:50	80
21/8/2019 11:50	70
21/8/2019 12:50	67
21/8/2019 13:50	59
21/8/2019 14:50	65
21/8/2019 15:50	72
21/8/2019 16:50	87
21/8/2019 17:50	91
21/8/2019 18:50	96
21/8/2019 19:50	83
21/8/2019 20:50	83
21/8/2019 21:50	70
21/8/2019 22:50	82
21/8/2019 23:50	59
22/8/2019 0:50	65
22/8/2019 1:50	57
22/8/2019 2:50	52
22/8/2019 3:50	56
22/8/2019 4:50	59
22/8/2019 5:50	70
22/8/2019 6:50	78
22/8/2019 7:50	80
Average	73
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
27/8/2019 10:27	64
27/8/2019 11:27	64
27/8/2019 12:27	66
27/8/2019 13:27	69
27/8/2019 14:27	75
27/8/2019 15:27	71
27/8/2019 16:27	68
27/8/2019 17:27	68
27/8/2019 18:27	82
27/8/2019 19:27	78
27/8/2019 20:27	77
27/8/2019 21:27	71
27/8/2019 22:27	71
27/8/2019 23:27	75
28/8/2019 0:27	64
28/8/2019 1:27	57
28/8/2019 2:27	57
28/8/2019 3:27	53
28/8/2019 4:27	61
28/8/2019 5:27	61
28/8/2019 6:27	57
28/8/2019 7:27	68
28/8/2019 8:27	62
28/8/2019 9:27	64
Average	67
Action Level	172
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.

AMS15 - Ha Wo Che

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
2/9/2019 11:04	68
2/9/2019 12:04	71
2/9/2019 13:04	68
2/9/2019 14:04	64
2/9/2019 15:04	62
2/9/2019 16:04	57
2/9/2019 17:04	61
2/9/2019 18:04	61
2/9/2019 19:04	64
2/9/2019 20:04	69
2/9/2019 21:04	71
2/9/2019 22:04	78
2/9/2019 23:04	57
3/9/2019 0:04	69
3/9/2019 1:04	84
3/9/2019 2:04	82
3/9/2019 3:04	75
3/9/2019 4:04	53
3/9/2019 5:04	64
3/9/2019 6:04	68
3/9/2019 7:04	61
3/9/2019 8:04	61
3/9/2019 9:04	68
3/9/2019 10:04	71
Average	67
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
7/9/2019 9:31	52
7/9/2019 10:31	44
7/9/2019 11:31	50
7/9/2019 12:31	48
7/9/2019 13:31	43
7/9/2019 14:31	43
7/9/2019 15:31	41
7/9/2019 16:31	43
7/9/2019 17:31	50
7/9/2019 18:31	61
7/9/2019 19:31	67
7/9/2019 20:31	65
7/9/2019 21:31	72
7/9/2019 22:31	78
7/9/2019 23:31	69
8/9/2019 0:31	72
8/9/2019 1:31	59
8/9/2019 2:31	63
8/9/2019 3:31	59
8/9/2019 4:31	65
8/9/2019 5:31	54
8/9/2019 6:31	43
8/9/2019 7:31	50
8/9/2019 8:31	46
Average	56
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
12/9/2019 8:30	70
12/9/2019 9:30	70
12/9/2019 10:30	67
12/9/2019 11:30	61
12/9/2019 12:30	59
12/9/2019 13:30	56
12/9/2019 14:30	52
12/9/2019 15:30	48
12/9/2019 16:30	52
12/9/2019 17:30	54
12/9/2019 18:30	63
12/9/2019 19:30	65
12/9/2019 20:30	78
12/9/2019 21:30	78
12/9/2019 22:30	76
12/9/2019 23:30	74
13/9/2019 0:30	74
13/9/2019 1:30	81
13/9/2019 2:30	67
13/9/2019 3:30	72
13/9/2019 4:30	85
13/9/2019 5:30	89
13/9/2019 6:30	94
13/9/2019 7:30	96
Average	70
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
18/9/2019 10:22	72
18/9/2019 11:22	72
18/9/2019 12:22	59
18/9/2019 13:22	67
18/9/2019 14:22	78
18/9/2019 15:22	78
18/9/2019 16:22	74
18/9/2019 17:22	68
18/9/2019 18:22	68
18/9/2019 19:22	72
18/9/2019 20:22	80
18/9/2019 21:22	85
18/9/2019 22:22	80
18/9/2019 23:22	77
19/9/2019 0:22	81
19/9/2019 1:22	83
19/9/2019 2:22	80
19/9/2019 3:22	68
19/9/2019 4:22	67
19/9/2019 5:22	63
19/9/2019 6:22	57
19/9/2019 7:22	67
19/9/2019 8:22	70
19/9/2019 9:22	67
Average	72
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
24/9/2019 8:50	62
24/9/2019 9:50	69
24/9/2019 10:50	60
24/9/2019 11:50	52
24/9/2019 12:50	58
24/9/2019 13:50	64
24/9/2019 14:50	69
24/9/2019 15:50	77
24/9/2019 16:50	71
24/9/2019 17:50	79
24/9/2019 18:50	82
24/9/2019 19:50	84
24/9/2019 20:50	75
24/9/2019 21:50	71
24/9/2019 22:50	79
24/9/2019 23:50	75
25/9/2019 0:50	69
25/9/2019 1:50	64
25/9/2019 2:50	58
25/9/2019 3:50	62
25/9/2019 4:50	66
25/9/2019 5:50	71
25/9/2019 6:50	75
25/9/2019 7:50	75
Average	69
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
30/9/2019 10:47	39
30/9/2019 11:47	41
30/9/2019 12:47	43
30/9/2019 13:47	39
30/9/2019 14:47	50
30/9/2019 15:47	53
30/9/2019 16:47	48
30/9/2019 17:47	48
30/9/2019 18:47	55
30/9/2019 19:47	61
30/9/2019 20:47	55
30/9/2019 21:47	55
30/9/2019 22:47	48
30/9/2019 23:47	46
1/10/2019 0:47	43
1/10/2019 1:47	45
1/10/2019 2:47	45
1/10/2019 3:47	39
1/10/2019 4:47	48
1/10/2019 5:47	50
1/10/2019 6:47	53
1/10/2019 7:47	53
1/10/2019 8:47	46
1/10/2019 9:47	50
Average	48
Action Level	172
Limit Level	260

- 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.



AMS15 - Ha Wo Che

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
5/10/2019 9:48	52
5/10/2019 10:48	52
5/10/2019 11:48	54
5/10/2019 12:48	58
5/10/2019 13:48	56
5/10/2019 14:48	54
5/10/2019 15:48	54
5/10/2019 16:48	60
5/10/2019 17:48	60
5/10/2019 18:48	62
5/10/2019 19:48	58
5/10/2019 20:48	56
5/10/2019 21:48	54
5/10/2019 22:48	52
5/10/2019 23:48	54
6/10/2019 0:48	58
6/10/2019 1:48	60
6/10/2019 2:48	64
6/10/2019 3:48	68
6/10/2019 4:48	54
6/10/2019 5:48	50
6/10/2019 6:48	54
6/10/2019 7:48	48
6/10/2019 8:48	50
Average	56
Action Level	172
Limit Level	260

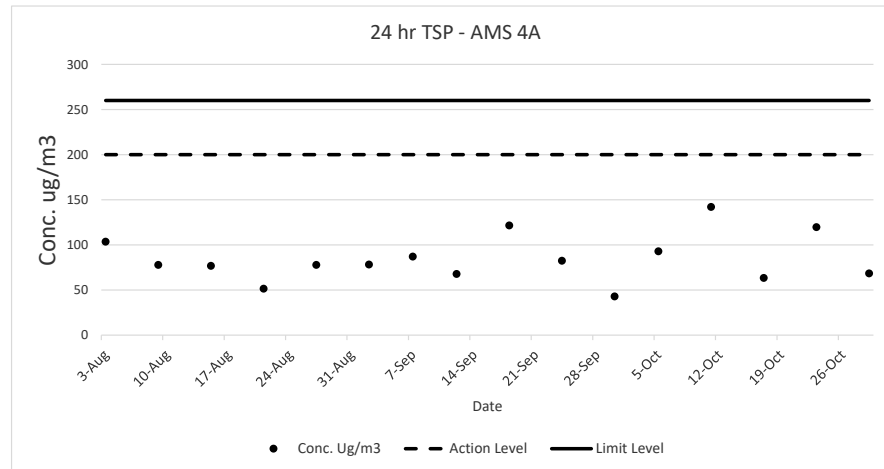
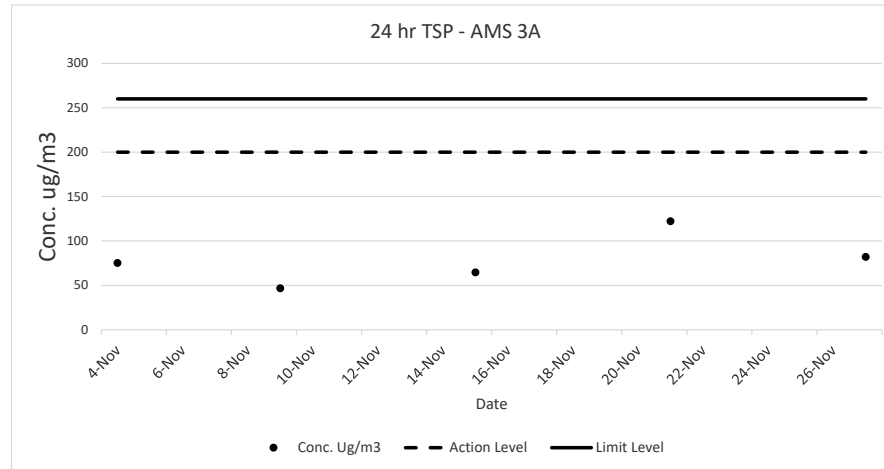
Date and Time	TSP Concentration (ug/m <sup>3</sup> )
11/10/2019 10:26	59
11/10/2019 11:26	63
11/10/2019 12:26	59
11/10/2019 13:26	65
11/10/2019 14:26	59
11/10/2019 15:26	67
11/10/2019 16:26	67
11/10/2019 17:26	63
11/10/2019 18:26	57
11/10/2019 19:26	57
11/10/2019 20:26	69
11/10/2019 21:26	61
11/10/2019 22:26	57
11/10/2019 23:26	56
12/10/2019 0:26	70
12/10/2019 1:26	61
12/10/2019 2:26	63
12/10/2019 3:26	57
12/10/2019 4:26	59
12/10/2019 5:26	57
12/10/2019 6:26	63
12/10/2019 7:26	70
12/10/2019 8:26	69
12/10/2019 9:26	65
Average	62
Action Level	172
Limit Level	260

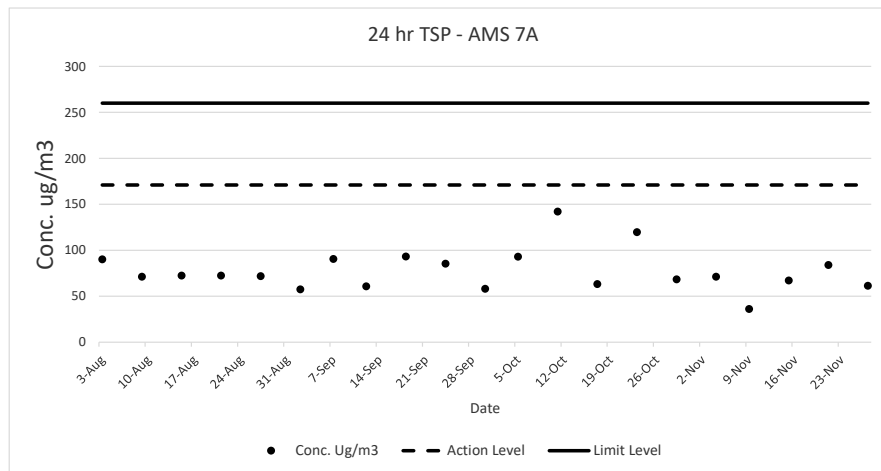
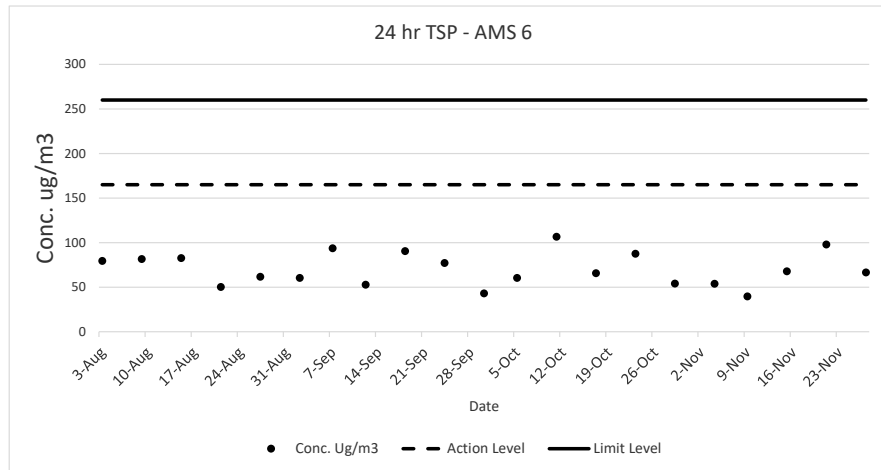
Date and Time	TSP Concentration (ug/m <sup>3</sup> )
17/10/2019 10:15	59
17/10/2019 11:15	68
17/10/2019 12:15	67
17/10/2019 13:15	70
17/10/2019 14:15	57
17/10/2019 15:15	63
17/10/2019 16:15	72
17/10/2019 17:15	70
17/10/2019 18:15	54
17/10/2019 19:15	61
17/10/2019 20:15	67
17/10/2019 21:15	68
17/10/2019 22:15	63
17/10/2019 23:15	65
18/10/2019 0:15	59
18/10/2019 1:15	72
18/10/2019 2:15	73
18/10/2019 3:15	68
18/10/2019 4:15	67
18/10/2019 5:15	57
18/10/2019 6:15	55
18/10/2019 7:15	63
18/10/2019 8:15	59
18/10/2019 9:15	67
Average	64
Action Level	172
Limit Level	260

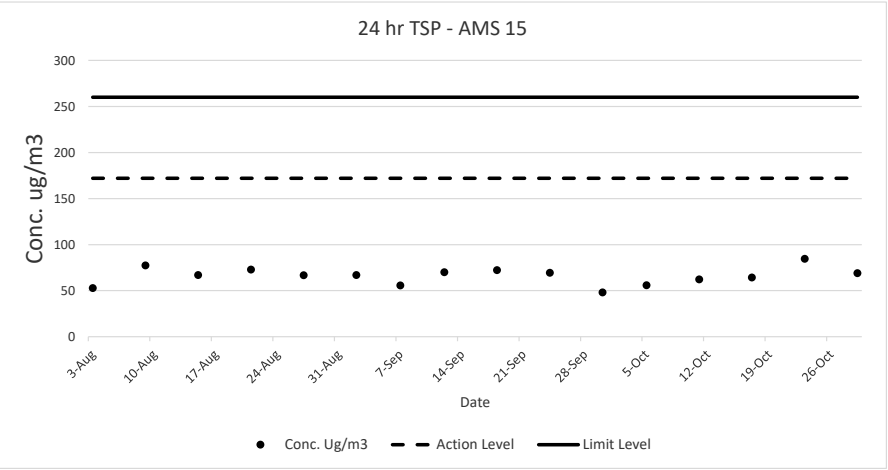
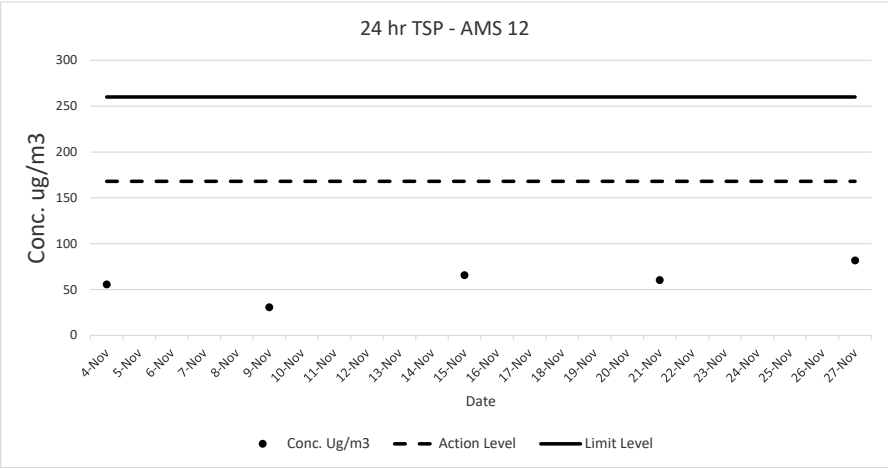
Date and Time	TSP Concentration (ug/m <sup>3</sup> )
23/10/2019 10:31	78
23/10/2019 11:31	87
23/10/2019 12:31	85
23/10/2019 13:31	91
23/10/2019 14:31	91
23/10/2019 15:31	87
23/10/2019 16:31	85
23/10/2019 17:31	89
23/10/2019 18:31	95
23/10/2019 19:31	91
23/10/2019 20:31	87
23/10/2019 21:31	82
23/10/2019 22:31	89
23/10/2019 23:31	85
24/10/2019 0:31	78
24/10/2019 1:31	76
24/10/2019 2:31	76
24/10/2019 3:31	72
24/10/2019 4:31	78
24/10/2019 5:31	82
24/10/2019 6:31	78
24/10/2019 7:31	87
24/10/2019 8:31	91
24/10/2019 9:31	87
Average	84
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (ug/m <sup>3</sup> )
29/10/2019 10:10	64
29/10/2019 11:10	68
29/10/2019 12:10	68
29/10/2019 13:10	64
29/10/2019 14:10	60
29/10/2019 15:10	60
29/10/2019 16:10	68
29/10/2019 17:10	72
29/10/2019 18:10	76
29/10/2019 19:10	76
29/10/2019 20:10	79
29/10/2019 21:10	70
29/10/2019 22:10	68
29/10/2019 23:10	66
30/10/2019 0:10	60
30/10/2019 1:10	64
30/10/2019 2:10	74
30/10/2019 3:10	79
30/10/2019 4:10	81
30/10/2019 5:10	70
30/10/2019 6:10	68
30/10/2019 7:10	64
30/10/2019 8:10	66
30/10/2019 9:10	70
Average	69
Action Level	172
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.







**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**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
10-Aug-19	9:20	66.7	63.5	70.0	75	66.7	Fine	0.6
16-Aug-19	9:16	61.8	59.0	64.0		61.8	Sunny	0.0
22-Aug-19	15:37	66.5	62.0	68.0		66.5	Fine	0.0
28-Aug-19	9:04	65.7	62.5	68.0		65.7	Fine	0.7
3-Sep-19	9:22	68.6	65.0	72.0		68.6	Fine	0.7
13-Sep-19	8:38	60.3	57.0	62.0		60.3	Sunny	0.0
19-Sep-19	10:15	66.7	64.5	68.0		66.7	Fine	0.6
25-Sep-19	8:30	63.3	61.5	64.5		63.3	Sunny	0.4
5-Oct-19	8:30	64.5	59.0	69.0		64.5	Sunny	0.0
12-Oct-19	8:35	66.7	62.0	68.0		66.7	Sunny	0.4
18-Oct-19	13:00	62.7	58.5	67.5		62.7	Fine	0.5
24-Oct-19	8:46	60.9	58.0	63.0		60.9	Sunny	0.1
30-Oct-19	8:40	69.8	63.0	71.5		69.8	Sunny	1.2
5-Nov-19	13:12	67.4	63.0	68.5		67.4	Fine	0.7
15-Nov-19	10:56	67.9	63.0	69.0		67.9	Sunny	0.8
22-Nov-19	11:15	67.8	63.0	70.5		67.8	Fine	1.2
28-Nov-19	8:50	62.2	58.9	64.5		62.2	Sunny	0.3

**NMS 2 Villa Le Parc**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
10-Aug-19	11:41	60.2	51.5	62.0	75	60.2	Fine	0.6
16-Aug-19	11:48	56.4	53.0	58.5		56.4	Sunny	0.0
22-Aug-19	8:30	61.8	52.5	63.0		61.8	Fine	0.0
28-Aug-19	10:03	58.2	51.5	60.0		58.2	Fine	0.7
3-Sep-19	11:47	60.6	52.0	62.5		60.6	Fine	0.5
13-Sep-19	11:11	55.3	53.0	57.5		55.3	Sunny	0.2
19-Sep-19	14:11	61.5	51.0	62.5		61.5	Fine	0.6
25-Sep-19	11:09	63.0	59.0	65.0		63.0	Sunny	0.0
5-Oct-19	9:13	65.7	60.0	69.5		65.7	Sunny	0.0
12-Oct-19	8:32	58.6	51.0	59.5		58.6	Sunny	0.4
18-Oct-19	13:42	64.5	61.5	70.5		64.5	Fine	0.0
24-Oct-19	11:14	56.7	54.0	59.0		56.7	Sunny	0.2
30-Oct-19	11:12	61.6	51.0	63.0		61.6	Sunny	1.1
5-Nov-19	8:30	61.2	75.5	62.5		61.2	Fine	0.9
15-Nov-19	8:32	58.6	51.0	59.5		58.6	Sunny	0.4
22-Nov-19	9:35	58.3	52.5	60.0		58.3	Fine	0.4
28-Nov-19	11:18	57.9	53.3	60.0		57.9	Sunny	0.6

**NMS 3 Hilton Plaza**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
10-Aug-19	9:56	68.1	66.0	72.0	75	68.1	Fine	0.4
16-Aug-19	9:52	58.3	55.5	61.0		58.3	Sunny	0.2
22-Aug-19	9:16	69.1	65.5	71.5		69.1	Fine	0.0
28-Aug-19	14:12	67.9	64.0	71.0		67.9	Fine	0.3
3-Sep-19	9:59	67.6	65.0	71.0		67.6	Fine	0.5
13-Sep-19	9:17	57.7	55.0	60.0		57.7	Sunny	0.1
19-Sep-19	9:40	69.5	66.0	74.0		69.5	Fine	1.1
25-Sep-19	9:05	66.2	63.5	68.5		66.2	Sunny	0.0
5-Oct-19	9:57	67.4	61.5	70.5		67.4	Sunny	0.6
12-Oct-19	17:20	68.6	66.0	71.5		68.6	Sunny	0.6
18-Oct-19	14:25	63.8	60.5	68.0		63.8	Fine	0.0
24-Oct-19	9:21	58.6	56.0	61.5		58.6	Sunny	0.3
30-Oct-19	9:21	71.6	65.0	74.5		71.6	Sunny	1.6
5-Nov-19	11:37	66.6	62.5	68.0		66.6	Fine	0.9
15-Nov-19	10:16	67.0	62.5	69.5		67.0	Sunny	0.6
22-Nov-19	10:38	68.6	64.5	71.5		68.6	Fine	1.4
28-Nov-19	9:26	59.0	55.6	62.0		59.0	Sunny	0.6

**NMS 4 Tin Liu**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
10-Aug-19	12:15	70.1	66.0	73.0	75	70.1	Fine	0.8
16-Aug-19	13:04	63.1	60.5	65.0		63.1	Sunny	0.1
22-Aug-19	10:00	70.9	65.5	72.5		70.9	Fine	0.0
28-Aug-19	10:39	69.5	65.5	72.5		69.5	Fine	0.6
3-Sep-19	12:25	71.1	66.5	74.0		71.1	Fine	0.5
13-Sep-19	13:02	64.8	61.0	66.0		64.8	Sunny	0.0
19-Sep-19	13:35	72.1	66.0	75.0		72.1	Fine	0.5
25-Sep-19	9:44	68.5	65.5	71.0		68.5	Sunny	0.0
5-Oct-19	10:47	66.8	62.5	70.5		66.8	Sunny	0.7
12-Oct-19	9:10	72.8	66.0	75.0		72.8	Sunny	0.6
18-Oct-19	15:15	65.9	60.0	71.0		65.9	Fine	0.7
24-Oct-19	13:07	65.4	62.0	67.5		65.4	Sunny	0.0
30-Oct-19	10:37	72.6	66.0	76.5		72.6	Sunny	0.8
5-Nov-19	9:09	69.6	65.0	72.0		69.6	Fine	0.7
15-Nov-19	9:40	69.8	65.5	73.0		69.8	Sunny	0.5
22-Nov-19	10:12	71.6	67.0	74.5		71.6	Fine	0.4
28-Nov-19	13:22	65.0	61.0	68.0		65.0	Sunny	0.7

**NMS 5A Wai Wah Centre**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
10-Aug-19	10:31	71.8	68.0	74.0	75	71.8	Fine	0.6
16-Aug-19	10:27	66.7	63.5	68.0		66.7	Sunny	0.3
22-Aug-19	14:00	72.2	67.6	75.8		72.2	Fine	0.0
28-Aug-19	13:35	71.1	68.0	74.5		71.1	Fine	0.5
3-Sep-19	10:32	72.7	69.5	76.0		72.7	Fine	0.8
13-Sep-19	9:51	67.9	64.0	69.5		67.9	Sunny	0.3
19-Sep-19	11:24	73.0	69.0	76.5		73.0	Fine	0.3
25-Sep-19	11:50	72.0	70.0	75.0		72.0	Sunny	0.0
5-Oct-19	10:32	65.3	60.0	69.5		65.3	Sunny	0.8
12-Oct-19	10:32	70.9	67.5	73.5		70.9	Sunny	0.2
18-Oct-19	16:00	66.4	62.0	71.0		66.4	Fine	0.0
24-Oct-19	9:54	68.3	65.0	70.5		68.3	Sunny	0.2
30-Oct-19	11:45	74.4	70.0	77.0		74.4	Sunny	2.0
5-Nov-19	10:57	70.7	68.0	74.0		70.7	Fine	0.6
15-Nov-19	11:36	70.6	68.5	74.0		70.6	Sunny	0.3
22-Nov-19	9:59	73.1	69.0	76.5		73.1	Fine	0.6
28-Nov-19	10:12	69.9	67.0	72.3		69.9	Sunny	0.6

**NMS 6A Wai Wah Centre**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
10-Aug-19	11:06	70.1	67.0	73.5	75	70.1	Fine	0.3
16-Aug-19	11:01	67.2	64.0	69.0		67.2	Sunny	0.3
22-Aug-19	14:47	72.7	68.5	75.0		72.7	Fine	0.0
28-Aug-19	13:02	69.0	66.0	72.5		69.0	Fine	0.4
3-Sep-19	11:10	72.5	69.0	76.0		72.5	Fine	0.4
13-Sep-19	10:24	67.7	64.0	70.0		67.7	Sunny	0.4
19-Sep-19	10:51	74.1	70.0	77.0		74.1	Fine	0.4
25-Sep-19	13:00	71.5	70.0	75.0		71.5	Sunny	0.0
5-Oct-19	13:00	66.9	61.5	70.5		66.9	Sunny	0.8
12-Oct-19	9:49	74.0	69.2	75.8		74.0	Sunny	0.0
18-Oct-19	13:10	65.8	60.0	69.5		65.8	Fine	0.0
24-Oct-19	10:28	70.6	68.5	72.5		70.6	Sunny	0.0
30-Oct-19	11:11	74.0	71.5	76.0		74.0	Sunny	0.4
5-Nov-19	10:21	68.7	66.5	72.0		68.7	Fine	0.7
15-Nov-19	13:00	69.0	66.5	72.0		69.0	Sunny	0.6
22-Nov-19	9:25	72.4	68.5	75.0		72.4	Fine	0.8
28-Nov-19	10:36	70.0	66.8	71.8		70.0	Sunny	0.8

**NMS 7 Tin Liu**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins					75	74.1	Fine	0.3
10-Aug-19	12:47	74.1	67.0	76.5		64.6	Sunny	0.0
16-Aug-19	13:37	64.6	61.0	67.0		72.3	Fine	0.0
22-Aug-19	14:00	72.3	67.4	75.2		72.1	Fine	0.5
28-Aug-19	11:20	72.1	67.0	74.0		74.3	Fine	0.6
3-Sep-19	13:00	74.3	67.5	77.0		65.3	Sunny	0.1
13-Sep-19	13:35	65.3	61.5	67.5		73.6	Fine	0.4
19-Sep-19	13:00	73.6	67.0	76.0		67.0	Sunny	0.0
25-Sep-19	10:18	67.0	64.0	70.5		63.4	Sunny	0.6
5-Oct-19	11:32	63.4	62.5	64.5		73.6	Sunny	0.5
12-Oct-19	9:46	73.6	67.0	77.0		67.0	Fine	0.0
18-Oct-19	13:52	67.0	63.5	72.5		63.9	Sunny	0.0
24-Oct-19	13:41	63.9	61.5	65.5		74.8	Sunny	0.7
30-Oct-19	10:02	74.8	67.0	78.0		73.7	Fine	0.3
5-Nov-19	9:45	73.7	68.0	77.0		63.7	Sunny	0.5
15-Nov-19	8:30	63.7	58.0	67.5		73.4	Fine	0.6
22-Nov-19	10:46	73.4	68.5	78.0		72.1	Sunny	0.9
28-Nov-19	13:57	72.1	67.8	76.0				

**NMS 8 Shatin Plaza**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins					75	63.8	Sunny	0.1
9-Aug-19	13:36	63.8	62.0	65.0		68.6	Sunny	0.8
15-Aug-19	9:33	68.6	66.0	71.0		65.7	Sunny	0.1
21-Aug-19	8:44	65.7	63.0	67.0		67.3	Fine	0.4
27-Aug-19	8:36	67.3	63.5	70.5		66.2	Overcast	0.3
2-Sep-19	8:52	66.2	64.0	68.0		68.5	Fine	0.6
12-Sep-19	8:55	68.5	66.0	71.0		67.5	Fine	0.2
18-Sep-19	9:05	67.5	65.0	70.0		71.6	Sunny	0.7
24-Sep-19	8:36	71.6	67.0	74.0		68.0	Fine	0.7
4-Oct-19	0:00	68.0	66.0	71.0		70.1	Sunny	0.6
11-Oct-19	8:33	70.1	67.0	74.0		67.9	Sunny	0.9
17-Oct-19	9:40	67.9	65.0	70.0		70.6	Fine	1.2
23-Oct-19	13:33	70.6	66.0	74.0		68.1	Fine	0.8
29-Oct-19	8:35	68.1	65.0	71.0		68.1	Fine	0.7
4-Nov-19	8:41	68.1	66.0	71.5		68.0	Sunny	0.7
14-Nov-19	9:00	68.0	65.5	71.5		71.3	Sunny	0.9
21-Nov-19	8:32	71.3	67.0	74.5		70.0	Fine	1.0
27-Nov-19	13:22	70.0	65.9	73.2				

**NMS 9 Lek Yuen Estate**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins					75	66.7	Sunny	0.0
9-Aug-19	8:42	66.7	61.5	69.0		67.6	Sunny	0.5
15-Aug-19	10:10	67.6	61.5	69.0		66.1	Sunny	0.4
21-Aug-19	9:20	66.1	62.5	67.5		66.6	Fine	0.6
27-Aug-19	9:48	66.6	61.0	69.5		64.6	Overcast	0.1
2-Sep-19	9:33	64.6	61.0	66.0		67.5	Fine	0.6
12-Sep-19	9:40	67.5	60.5	69.5		68.1	Fine	0.6
18-Sep-19	9:39	68.1	63.0	71.5		67.7	Sunny	0.0
24-Sep-19	9:46	67.7	63.0	71.0		67.8	Fine	0.5
4-Oct-19	9:46	67.8	61.0	69.0		66.1	Sunny	0.6
11-Oct-19	9:45	66.1	62.0	69.0		65.4	Sunny	0.7
17-Oct-19	10:19	65.4	62.5	66.5		69.4	Fine	0.4
23-Oct-19	11:13	69.4	66.0	73.0		67.8	Fine	0.4
29-Oct-19	11:35	67.8	65.0	71.0		66.4	Fine	1.4
4-Nov-19	9:53	66.4	63.0	67.5		67.5	Sunny	0.9
14-Nov-19	14:17	67.5	64.0	70.0		67.1	Sunny	0.3
21-Nov-19	11:32	67.1	62.5	68.5		69.7	Fine	0.5
27-Nov-19	11:03	69.7	65.8	72.5				

**NMS 10A Shatin Tsung Tsin School**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
9-Aug-19	10:17	62.4	58.5	63.0	70	62.4	Sunny	0.3
15-Aug-19	10:47	65.6	61.0	67.5		65.6	Sunny	0.8
21-Aug-19	9:26	64.9	60.0	67.0		64.9	Sunny	0.0
27-Aug-19	10:26	64.7	61.0	66.5		64.7	Fine	0.8
2-Sep-19	10:10	65.4	60.0	67.5		65.4	Overcast	0.2
12-Sep-19	10:16	67.0	61.5	69.0		67.0	Fine	0.0
18-Sep-19	10:16	64.6	60.0	65.5		64.6	Fine	1.1
24-Sep-19	10:25	64.2	59.0	65.0		64.2	Sunny	0.3
4-Oct-19	10:30	65.4	61.5	67.0		65.4	Fine	0.9
11-Oct-19	10:22	63.1	60.0	64.5		63.1	Sunny	0.8
17-Oct-19	10:57	63.2	60.0	65.5		63.2	Sunny	0.6
23-Oct-19	13:49	63.9	60.0	65.0		63.9	Fine	1.2
29-Oct-19	11:35	67.8	65.0	71.0		67.8	Fine	0.4
4-Nov-19	10:28	64.1	60.0	65.5		64.1	Fine	1.2
14-Nov-19	13:42	64.8	61.5	66.0		64.8	Sunny	0.4
21-Nov-19	9:05	63.2	59.0	64.5		63.2	Sunny	1.4
27-Nov-19	13:45	64.8	59.8	66.0		64.8	Fine	0.8

Note: \*Since the measured noise level was greater than the limit level, construction noise level (CNL) was applied on 22/5, where Calculated CNL = Measured Noise Level during operation – Baseline (69.3 dB(A)).

**NMS 11 Sheung Wo Che**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
9-Aug-19	11:41	60.0	51.0	62.0	75	60.0	Sunny	0.2
15-Aug-19	16:39	68.8	63.5	71.5		68.8	Sunny	0.6
21-Aug-19	12:04	65.3	58.5	67.5		65.3	Sunny	0.0
27-Aug-19	10:06	68.1	61.0	69.5		68.1	Fine	0.3
2-Sep-19	11:14	61.1	58.5	64.0		61.1	Overcast	0.0
12-Sep-19	13:30	68.0	63.5	71.5		68.0	Fine	0.0
18-Sep-19	16:42	69.5	64.0	73.0		69.5	Fine	0.6
24-Sep-19	16:16	67.9	65.0	68.5		67.9	Sunny	0.2
4-Oct-19	14:37	70.2	66.0	73.5		70.2	Fine	0.7
11-Oct-19	13:47	71.2	64.3	74.0		71.2	Sunny	0.8
17-Oct-19	9:11	66.1	62.5	67.5		66.1	Sunny	0.4
23-Oct-19	9:54	67.7	63.5	70.0		67.7	Fine	0.6
29-Oct-19	10:22	64.8	62.0	66.5		64.8	Fine	0.4
4-Nov-19	9:02	66.3	61.0	67.0		66.3	Fine	0.8
14-Nov-19	14:58	66.6	62.5	67.5		66.6	Sunny	0.6
21-Nov-19	10:22	67.0	63.5	69.5		67.0	Sunny	0.3
27-Nov-19	9:50	68.0	62.9	71.0		68.0	Fine	0.7

**NMS 12 SKH Holy Spirit Primary School**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
9-Aug-19	11:02	62.0	57.0	62.5	70	62.0	Sunny	0.1
15-Aug-19	13:00	64.0	59.5	65.0		64.0	Sunny	0.7
21-Aug-19	10:00	64.5	60.5	67.5		64.5	Sunny	0.0
27-Aug-19	11:02	66.1	61.0	67.5		66.1	Fine	0.6
2-Sep-19	10:48	60.5	57.0	62.5		60.5	Overcast	0.3
12-Sep-19	11:00	64.0	59.0	65.0		64.0	Fine	0.0
18-Sep-19	11:27	63.8	59.0	64.5		63.8	Fine	0.6
24-Sep-19	11:40	64.7	61.0	66.5		64.7	Sunny	0.7
4-Oct-19	13:00	61.8	60.0	65.5		61.8	Fine	1.0
11-Oct-19	13:04	64.4	59.5	65.5		64.4	Sunny	1.1
17-Oct-19	11:33	64.3	62.0	66.5		64.3	Sunny	0.8
23-Oct-19	13:10	64.5	61.0	66.5		64.5	Fine	0.9
29-Oct-19	9:41	64.6	61.5	67.0		64.6	Fine	0.5
4-Nov-19	11:06	64.7	59.0	65.0		64.7	Fine	0.7
14-Nov-19	13:06	64.4	61.0	65.5		64.4	Sunny	1.3
21-Nov-19	9:41	63.6	60.0	65.5		63.6	Sunny	0.7
27-Nov-19	13:00	65.1	60.2	67.0		65.1	Fine	0.6



**NMS 13 Lek Yuen Estate**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins					75	60.5	Sunny	0.1
9-Aug-19	9:28	60.5	58.0	63.0		68.0	Sunny	0.6
15-Aug-19	11:24	68.0	65.0	72.0		60.5	Sunny	0.0
21-Aug-19	10:04	60.5	58.5	63.0		67.5	Fine	0.7
27-Aug-19	11:39	67.5	64.0	70.0		56.1	Overcast	0.3
2-Sep-19	11:36	56.1	54.0	59.0		68.5	Fine	0.0
12-Sep-19	11:32	68.5	65.0	72.5		68.7	Fine	0.7
18-Sep-19	10:52	68.7	63.5	73.0		69.1	Sunny	0.6
24-Sep-19	11:02	69.1	66.0	74.0		67.8	Fine	0.5
4-Oct-19	11:14	67.8	65.0	71.5		67.1	Sunny	0.7
11-Oct-19	10:56	67.1	65.0	70.0		66.3	Sunny	0.6
17-Oct-19	13:12	66.3	63.5	68.0		67.1	Fine	0.5
23-Oct-19	11:06	67.1	64.5	69.0		66.1	Fine	0.4
29-Oct-19	10:18	66.1	62.0	68.0		66.7	Fine	0.9
4-Nov-19	11:41	66.7	62.5	68.0		66.7	Sunny	0.4
14-Nov-19	10:58	66.7	64.5	69.0		67.8	Sunny	0.7
21-Nov-19	10:18	67.8	65.5	70.5		67.3	Fine	0.5
27-Nov-19	11:09	67.3	63.9	70.2				

**NMS 14 Sheung Wo Che**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins					75	57.4	Sunny	0.0
9-Aug-19	10:01	57.4	55.0	60.0		66.1	Sunny	0.4
15-Aug-19	16:05	66.1	60.0	67.0		63.0	Sunny	0.0
21-Aug-19	11:58	63.0	57.0	65.5		66.1	Fine	0.7
27-Aug-19	10:45	66.1	60.5	67.5		60.4	Overcast	0.2
2-Sep-19	10:39	60.4	56.5	62.5		66.4	Fine	0.0
12-Sep-19	8:30	66.4	60.0	67.0		67.0	Fine	0.5
18-Sep-19	16:08	67.0	61.0	68.5		67.5	Sunny	0.6
24-Sep-19	15:29	67.5	60.0	69.5		65.5	Fine	0.0
4-Oct-19	8:30	65.5	58.8	68.5		65.6	Sunny	0.7
11-Oct-19	13:11	65.6	63.0	67.0		66.8	Sunny	0.7
17-Oct-19	9:46	66.8	63.0	68.0		65.2	Fine	0.8
23-Oct-19	10:29	65.2	62.5	67.0		65.7	Fine	0.6
29-Oct-19	10:56	65.7	63.0	67.0		65.7	Fine	0.6
4-Nov-19	9:36	65.7	61.0	66.5		65.7	Sunny	0.6
14-Nov-19	11:33	65.7	61.0	66.5		66.2	Sunny	0.6
21-Nov-19	10:57	66.2	62.0	67.0		66.3	Fine	0.9
27-Nov-19	10:26	66.3	61.8	68.2				

**NMS 15 Ha Wo Che**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins					75	66.5	Fine	0.2
10-Aug-19	14:38	66.5	62.5	68.0		63.2	Sunny	0.2
16-Aug-19	14:58	63.2	60.0	65.0		64.3	Fine	0.3
22-Aug-19	9:30	64.3	59.6	67.2		68.2	Fine	0.7
28-Aug-19	10:23	68.2	64.5	70.5		67.8	Fine	0.6
3-Sep-19	14:12	67.8	64.0	71.0		62.9	Sunny	0.2
13-Sep-19	14:53	62.9	60.0	64.5		68.4	Fine	0.5
19-Sep-19	15:18	68.4	64.5	73.0		64.3	Sunny	0.0
25-Sep-19	8:45	64.3	59.5	69.0		66.5	Sunny	0.5
5-Oct-19	8:32	66.5	64.5	68.5		66.2	Sunny	0.0
12-Oct-19	11:09	66.2	61.0	67.5		67.5	Fine	0.0
18-Oct-19	14:40	67.5	61.5	70.5		63.4	Sunny	0.2
24-Oct-19	10:14	63.4	59.5	65.0		66.2	Sunny	0.7
30-Oct-19	13:20	66.2	61.0	67.5		64.7	Fine	1.2
5-Nov-19	9:26	64.7	60.0	65.5		64.8	Sunny	0.0
15-Nov-19	9:59	64.8	60.5	67.5		65.6	Fine	0.6
22-Nov-19	13:00	65.6	62.0	67.5		64.4	Sunny	0.6
28-Nov-19	10:04	64.4	58.9	66.1				

**NMS 16 Ha Wo Che**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
10-Aug-19	15:14	66.8	63.0	69.0	75	66.8	Fine	0.0
16-Aug-19	15:31	62.8	57.5	64.5		62.8	Sunny	0.0
22-Aug-19	10:08	65.9	60.3	68.2		65.9	Fine	0.0
28-Aug-19	11:05	65.6	60.5	67.5		65.6	Fine	0.5
3-Sep-19	14:48	67.1	63.5	70.0		67.1	Fine	0.6
13-Sep-19	15:28	62.4	57.0	64.0		62.4	Sunny	0.1
19-Sep-19	15:54	66.6	62.0	71.0		66.6	Fine	0.6
25-Sep-19	9:33	62.6	57.0	66.0		62.6	Sunny	0.0
5-Oct-19	9:06	65.5	64.0	66.5		65.5	Sunny	0.0
12-Oct-19	13:06	67.3	62.5	68.5		67.3	Sunny	0.6
18-Oct-19	15:25	66.8	62.5	72.5		66.8	Fine	0.6
24-Oct-19	10:49	64.4	58.5	66.5		64.4	Sunny	0.5
30-Oct-19	8:54	62.5	58.0	64.5		62.5	Sunny	0.0
5-Nov-19	10:02	65.3	61.0	66.5		65.3	Fine	0.8
15-Nov-19	9:17	65.8	61.5	68.5		65.8	Sunny	0.8
22-Nov-19	13:36	66.2	63.5	68.5		66.2	Fine	0.4
28-Nov-19	10:49	65.4	59.5	67.2		65.4	Sunny	0.6

**NMS 17 Shatin Pui Ying College**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
9-Aug-19	11:28	60.2	58.0	62.0	70	60.2	Sunny	0.2
15-Aug-19	14:17	63.8	59.0	65.0		63.8	Sunny	0.8
21-Aug-19	10:37	68.1	65.0	69.5		68.1	Sunny	0.0
27-Aug-19	13:02	64.6	60.5	66.0		64.6	Fine	0.4
2-Sep-19	13:08	60.8	58.0	62.5		60.8	Overcast	0.4
12-Sep-19	9:13	64.1	60.0	65.5		64.1	Fine	0.0
18-Sep-19	13:37	64.5	59.5	65.5		64.5	Fine	0.4
24-Sep-19	13:41	64.4	59.0	65.0		64.4	Sunny	0.9
4-Oct-19	9:17	63.8	57.0	67.0		63.8	Fine	0.0
11-Oct-19	9:50	64.8	60.0	67.0		64.8	Sunny	1.2
17-Oct-19	10:59	64.6	62.0	66.0		64.6	Sunny	0.9
23-Oct-19	9:48	64.0	61.5	65.5		64.0	Fine	0.6
29-Oct-19	11:31	64.2	62.0	65.5		64.2	Fine	0.9
4-Nov-19	10:48	63.9	59.3	65.0		63.9	Fine	0.6
14-Nov-19	9:46	64.3	60.0	66.9		64.3	Sunny	1.1
21-Nov-19	11:30	64.6	62.0	66.5		64.6	Sunny	0.8
27-Nov-19	9:40	63.7	60.2	66.0		63.7	Fine	0.5

Note: \*Since the measured noise level was greater than the limit level, construction noise level (CNL) was applied on 3/6/2019, where Calculated CNL = Measured Noise Level during operation – Baseline (66.8 dB(A)).  
 ^The measured noise level was lower than the baseline level (66.8 dB(A)).

**NMS 18 Ha Wo Che**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
10-Aug-19	16:02	65.2	61.0	66.0	75	65.2	Fine	0.4
16-Aug-19	16:05	60.5	58.0	62.5		60.5	Sunny	0.0
22-Aug-19	10:45	65.7	58.9	68.3		65.7	Fine	0.0
28-Aug-19	11:40	66.0	58.5	68.0		66.0	Fine	0.3
3-Sep-19	15:25	64.1	60.0	65.0		64.1	Fine	0.8
13-Sep-19	16:02	59.8	57.0	62.0		59.8	Sunny	0.0
19-Sep-19	16:32	64.6	61.0	66.5		64.6	Fine	0.4
25-Sep-19	10:16	64.8	58.0	68.5		64.8	Sunny	0.0
5-Oct-19	9:41	60.8	62.0	69.0		60.8	Sunny	0.3
12-Oct-19	13:43	65.6	61.0	66.5		65.6	Sunny	0.6
18-Oct-19	13:25	67.5	63.5	72.5		67.5	Fine	0.0
24-Oct-19	11:29	60.8	58.0	63.0		60.8	Sunny	0.2
30-Oct-19	9:30	60.6	54.0	62.5		60.6	Sunny	0.2
5-Nov-19	10:38	65.1	60.0	66.0		65.1	Fine	1.0
15-Nov-19	10:42	63.7	59.5	66.5		63.7	Sunny	0.8
22-Nov-19	14:11	65.6	60.0	66.3		65.6	Fine	0.4
28-Nov-19	11:19	66.1	61.0	68.9		66.1	Sunny	0.3

**NMS 19 Wo Che Estate**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins					75			
9-Aug-19	12:10	66.8	64.0	68.5		66.8	Sunny	0.0
15-Aug-19	14:51	66.8	64.0	67.5		66.8	Sunny	0.5
21-Aug-19	10:40	69.5	65.0	71.0		69.5	Sunny	0.0
27-Aug-19	13:45	66.8	62.5	68.5		66.8	Fine	0.8
2-Sep-19	13:45	67.6	65.0	71.0		67.6	Overcast	0.3
12-Sep-19	9:58	66.5	63.5	68.0		66.5	Fine	0.0
18-Sep-19	14:11	67.5	65.0	68.5		67.5	Fine	0.7
24-Sep-19	14:16	68.7	66.0	70.5		68.7	Sunny	0.5
4-Oct-19	10:08	66.5	62.5	69.5		66.5	Fine	0.5
11-Oct-19	10:26	69.2	66.0	72.5		69.2	Sunny	0.7
17-Oct-19	11:33	67.8	65.0	69.0		67.8	Sunny	0.6
23-Oct-19	9:09	67.0	64.0	68.5		67.0	Fine	0.7
29-Oct-19	13:30	68.6	64.0	72.0		68.6	Fine	1.1
4-Nov-19	11:28	68.6	64.0	70.0		68.6	Fine	1.1
14-Nov-19	9:08	70.6	66.3	73.5		70.6	Sunny	0.6
21-Nov-19	13:12	71.8	67.5	74.0		71.8	Sunny	1.1
27-Nov-19	9:06	69.2	65.0	72.1		69.2	Fine	0.8

**NMS 20 Wo Che Estate**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins					75			
9-Aug-19	13:21	60.7	57.0	62.5		60.7	Sunny	0.1
15-Aug-19	13:26	67.1	64.5	69.0		67.1	Sunny	0.7
21-Aug-19	11:20	59.4	55.5	65.5		59.4	Sunny	0.0
27-Aug-19	14:32	67.1	63.5	70.5		67.1	Fine	0.7
2-Sep-19	9:51	61.2	58.0	63.0		61.2	Overcast	0.3
12-Sep-19	10:45	66.7	64.0	68.5		66.7	Fine	0.0
18-Sep-19	15:00	66.8	64.0	68.5		66.8	Fine	0.8
24-Sep-19	14:54	67.6	65.5	70.0		67.6	Sunny	0.6
4-Oct-19	10:50	67.0	63.0	70.5		67.0	Fine	0.8
11-Oct-19	11:02	67.1	63.5	68.5		67.1	Sunny	1.1
17-Oct-19	13:07	68.9	66.0	71.5		68.9	Sunny	0.8
23-Oct-19	9:02	68.1	65.0	71.0		68.1	Fine	1.1
29-Oct-19	14:06	70.3	65.5	74.5		70.3	Fine	1.3
4-Nov-19	13:06	67.7	63.5	69.0		67.7	Fine	1.2
14-Nov-19	8:33	69.6	66.0	73.3		69.6	Sunny	0.6
21-Nov-19	13:07	68.9	66.0	71.5		68.9	Sunny	0.8
27-Nov-19	9:42	69.0	64.3	72.0		69.0	Fine	0.8

**NMS 23 Pai Tau**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins					75			
10-Aug-19	14:00	70.1	63.0	72.5		70.1	Fine	0.0
16-Aug-19	14:15	61.3	57.5	63.0		61.3	Sunny	0.0
22-Aug-19	11:29	69.8	64.2	74.6		69.8	Fine	1.4
28-Aug-19	9:43	66.3	63.0	69.0		66.3	Fine	0.5
3-Sep-19	13:47	71.6	63.5	74.0		71.6	Fine	0.8
13-Sep-19	14:11	61.8	58.0	63.5		61.8	Sunny	0.0
19-Sep-19	14:44	70.8	63.0	73.5		70.8	Fine	0.8
25-Sep-19	11:10	61.7	55.0	65.5		61.7	Sunny	0.0
5-Oct-19	12:18	64.7	63.5	66.0		64.7	Sunny	0.4
12-Oct-19	10:22	67.6	63.0	69.0		67.6	Sunny	0.0
18-Oct-19	14:13	65.3	58.0	69.0		65.3	Fine	0.0
24-Oct-19	9:33	61.2	58.5	64.0		61.2	Sunny	0.2
30-Oct-19	10:32	64.1	60.5	66.5		64.1	Sunny	0.0
5-Nov-19	8:44	66.5	62.0	67.5		66.5	Fine	1.1
15-Nov-19	11:27	62.8	58.5	65.0		62.8	Sunny	0.7
22-Nov-19	11:24	66.4	63.5	69.0		66.4	Fine	0.3
28-Nov-19	9:33	64.5	60.0	69.8		64.5	Sunny	0.7

**NMS 24 Shatin Plaza**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
9-Aug-19	8:44	61.7	60.0	63.5	75	61.7	Sunny	0.2
15-Aug-19	8:30	69.1	66.0	72.0		69.1	Sunny	0.4
21-Aug-19	8:42	61.4	28.0	63.0		61.4	Sunny	0.0
27-Aug-19	9:09	68.9	65.0	72.5		68.9	Fine	0.7
2-Sep-19	14:24	64.3	62.0	66.5		64.3	Overcast	0.3
12-Sep-19	11:30	69.4	66.5	72.0		69.4	Fine	0.0
18-Sep-19	8:31	69.4	66.5	72.5		69.4	Fine	0.4
24-Sep-19	9:09	69.9	67.0	71.5		69.9	Sunny	0.5
4-Oct-19	13:10	64.5	58.5	67.5		64.5	Fine	0.0
11-Oct-19	9:08	67.6	65.0	71.5		67.6	Sunny	0.8
17-Oct-19	9:06	69.8	66.0	72.5		69.8	Sunny	1.2
23-Oct-19	13:00	72.1	66.5	75.0		72.1	Fine	0.9
29-Oct-19	9:08	71.1	66.0	73.5		71.1	Fine	1.1
4-Nov-19	9:15	69.4	67.0	73.0		69.4	Fine	1.1
14-Nov-19	16:44	70.6	67.0	73.5		70.6	Sunny	0.7
21-Nov-19	9:06	72.6	67.5	75.5		72.6	Sunny	1.2
27-Nov-19	13:05	71.1	67.5	75.0		71.1	Fine	0.7

**NMS 25A Sheung Wo Che**

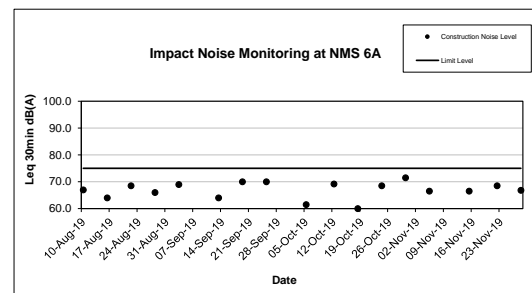
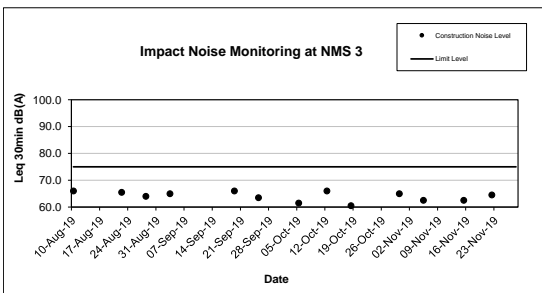
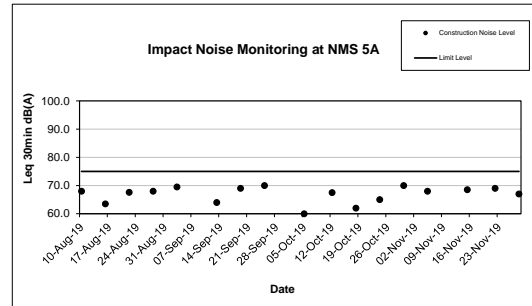
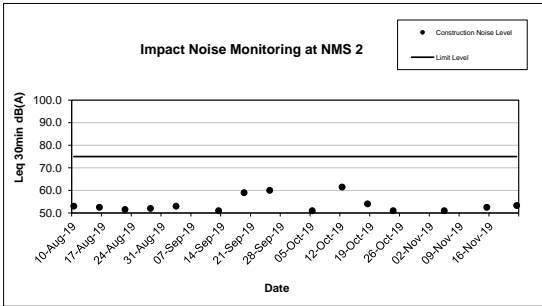
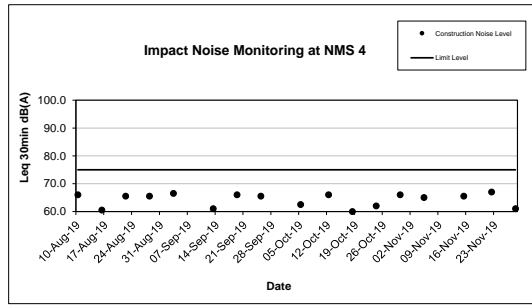
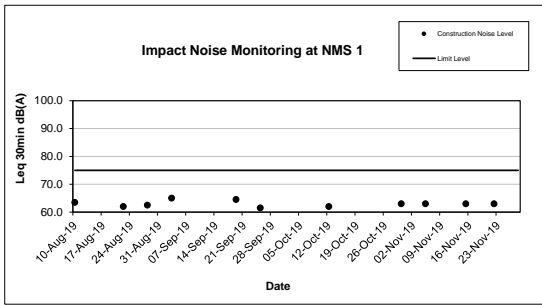
Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
9-Aug-19	9:23	68.4	66.0	70.5	75	68.4	Sunny	0.1
15-Aug-19	17:13	69.9	66.0	73.0		69.9	Sunny	0.3
21-Aug-19	12:37	66.1	59.5	70.5		66.1	Sunny	0.0
27-Aug-19	9:30	72.1	65.5	74.0		72.1	Fine	0.3
2-Sep-19	11:51	70.7	67.0	72.5		70.7	Overcast	0.1
12-Sep-19	12:17	69.7	66.5	72.5		69.7	Fine	0.0
18-Sep-19	17:20	71.1	66.5	74.0		71.1	Fine	1.1
24-Sep-19	16:52	72.4	67.0	74.5		72.4	Sunny	0.6
4-Oct-19	14:18	62.8	55.5	65.5		62.8	Fine	0.0
11-Oct-19	14:32	72.1	67.0	76.0		72.1	Sunny	1.2
17-Oct-19	8:33	67.6	63.0	69.5		67.6	Sunny	1.0
23-Oct-19	9:20	72.6	65.0	75.0		72.6	Fine	1.1
29-Oct-19	9:47	72.6	65.0	75.5		72.6	Fine	0.7
4-Nov-19	13:00	72.6	65.0	76.0		72.6	Fine	0.0
14-Nov-19	15:32	73.1	69.5	76.5		73.1	Sunny	0.3
21-Nov-19	9:48	74.2	70.0	78.5		74.2	Sunny	0.7
27-Nov-19	9:58	73.4	66.9	76.8		73.4	Fine	0.8

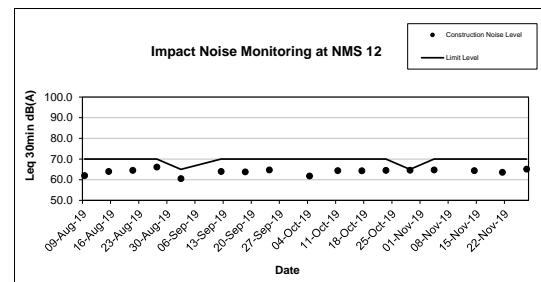
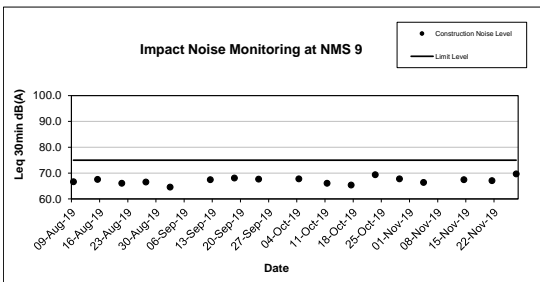
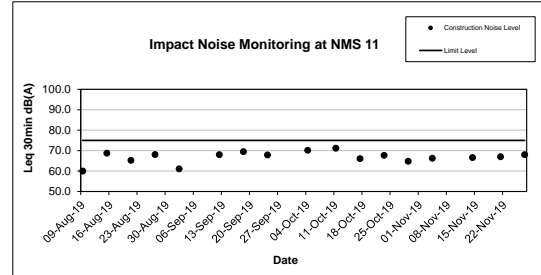
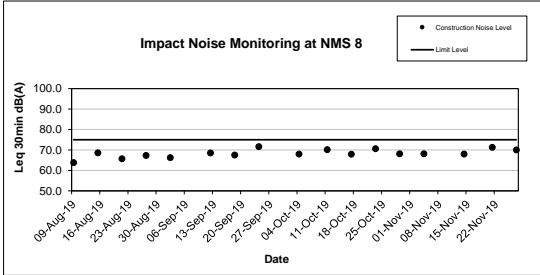
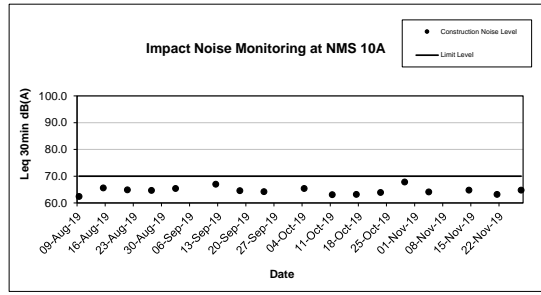
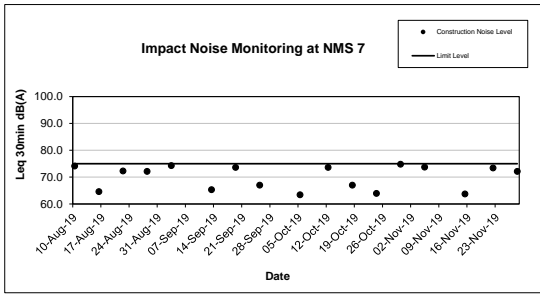
**NMS 26 Wo Che Estate**

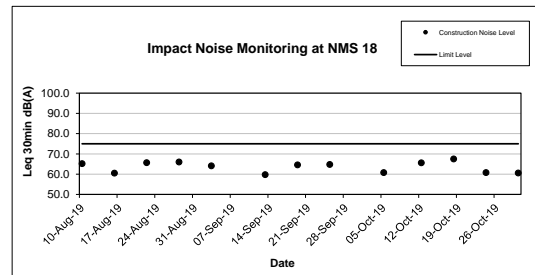
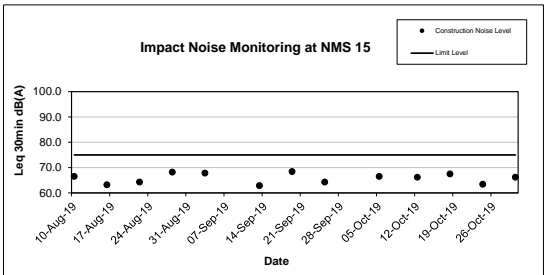
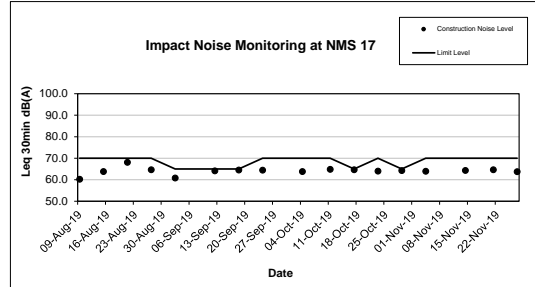
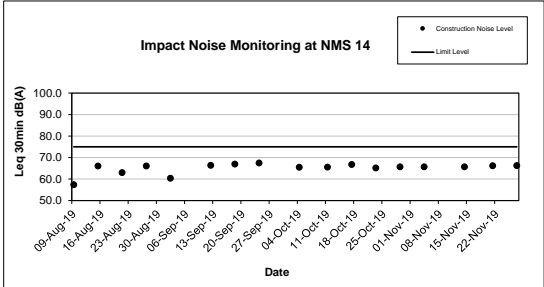
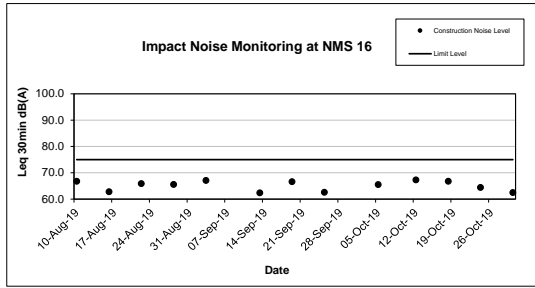
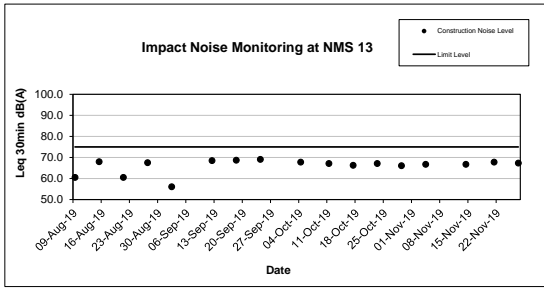
Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
9-Aug-19	10:43	68.8	66.0	70.5	75	68.8	Sunny	0.2
15-Aug-19	13:42	73.6	70.0	76.0		73.6	Sunny	0.8
21-Aug-19	11:23	70.6	67.5	73.0		70.6	Sunny	0.0
27-Aug-19	11:22	73.7	69.5	77.5		73.7	Fine	0.6
2-Sep-19	13:37	69.1	66.0	71.0		69.1	Overcast	0.2
12-Sep-19	13:08	72.8	69.5	74.0		72.8	Fine	0.0
18-Sep-19	13:00	72.8	69.0	75.5		72.8	Fine	0.4
24-Sep-19	13:04	74.1	71.0	76.5		74.1	Sunny	0.2
4-Oct-19	13:46	73.6	69.5	75.5		73.6	Fine	0.9
11-Oct-19	9:12	73.6	71.0	77.5		73.6	Sunny	1.1
17-Oct-19	10:22	73.6	69.3	76.0		73.6	Sunny	0.8
23-Oct-19	10:24	74.4	70.0	77.5		74.4	Fine	0.8
29-Oct-19	10:54	73.3	68.5	76.0		73.3	Fine	0.8
4-Nov-19	10:11	74.1	70.0	78.0		74.1	Fine	0.9
14-Nov-19	10:21	73.9	71.0	77.5		73.9	Sunny	0.8
21-Nov-19	10:55	73.3	70.5	76.5		73.3	Sunny	0.6
27-Nov-19	10:36	73.5	68.9	76.2		73.5	Fine	0.9

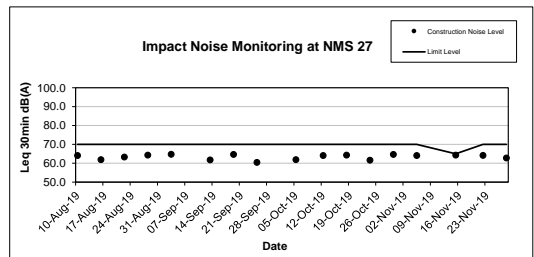
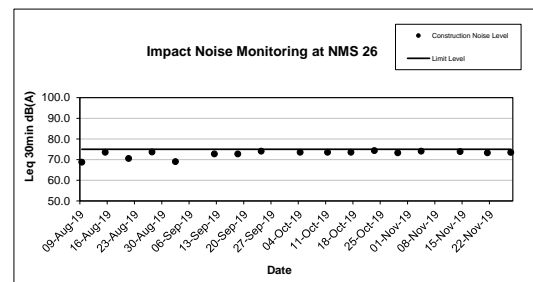
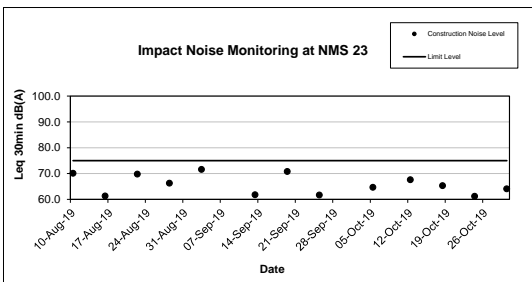
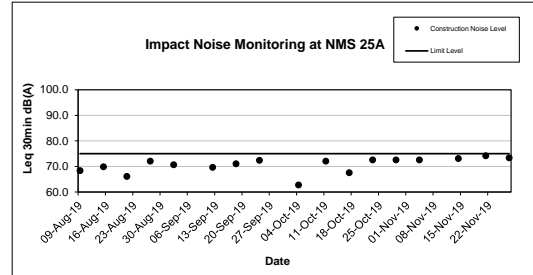
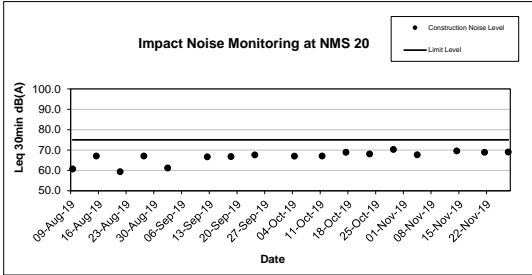
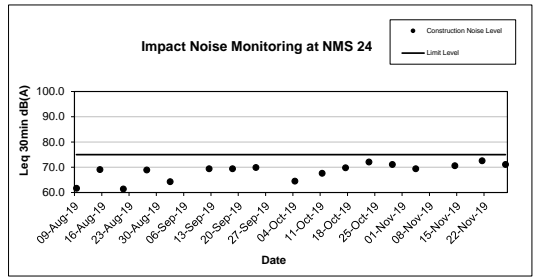
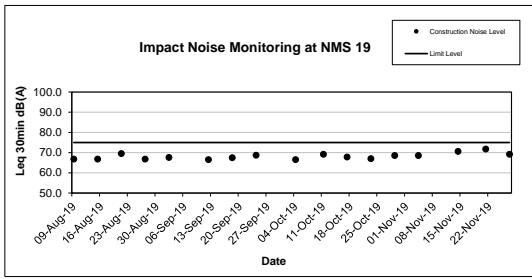
**NMS 27 Jockey Club Ti-I College**

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L <sub>eq</sub>	L <sub>90</sub>	L <sub>10</sub>				
Unit: dB(A) 30 Mins								
10-Aug-19	8:34	64.1	60.0	67.0	70	64.1	Fine	0.4
16-Aug-19	16:53	61.9	60.0	64.0		61.9	Sunny	0.2
22-Aug-19	13:00	63.3	58.6	67.8		63.3	Fine	1.0
28-Aug-19	9:04	64.3	61.0	66.5		64.3	Fine	0.6
3-Sep-19	8:30	64.8	61.0	66.0		64.8	Fine	0.4
13-Sep-19	16:49	61.8	60.0	64.5		61.8	Sunny	0.3
19-Sep-19	8:45	64.7	61.0	66.0		64.7	Fine	0.4
25-Sep-19	14:00	60.5	54.5	64.0		60.5	Sunny	0.0
5-Oct-19	10:36	61.9	60.0	63.5		61.9	Sunny	0.7
12-Oct-19	15:06	64.1	61.0	66.0		64.1	Sunny	0.8
18-Oct-19	16:11	64.3	60.0	69.5		64.3	Fine	0.5
24-Oct-19	13:41	61.6	60.0	65.0		61.6	Sunny	0.2
30-Oct-19	14:24	64.7	63.0	67.0		64.7	Sunny	1.1
5-Nov-19	13:39	64.1	61.0	66.0		64.1	Fine	0.7
15-Nov-19	13:17	64.3	61.5	68.5		64.3	Sunny	0.7
22-Nov-19	8:40	64.2	61.5	66.5		64.2	Fine	0.7
28-Nov-19	13:31	62.8	60.8	67.3		62.8	Sunny	0.7











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

### NMS 1 Scenery Court

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	1:10	58.0	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline*	Cloudy	1.0
8-Aug-19	23:00	59.9	61.4		55	Measured Noise Level<Baseline*	Fine	0.0
15-Aug-19	23:45	57.9	61.4		55	Measured Noise Level<Baseline*	Fine	0.4
22-Aug-19	23:00	60.2	61.4		55	Measured Noise Level<Baseline*	Fine	0.2
29-Aug-19	23:00	58.6	61.4		55	Measured Noise Level<Baseline*	Fine	0.2
3-Sep-19	23:02	60.5	61.4		55	Measured Noise Level<Baseline*	Hazy	0.3
12-Sep-19	23:00	58.8	61.4		55	Measured Noise Level<Baseline*	Fine	0.6
19-Sep-19	23:00	58.7	61.4		55	Measured Noise Level<Baseline*	Fine	0.7
26-Sep-19	23:00	58.0	61.4		55	Measured Noise Level<Baseline*	Fine	0.7
3-Oct-19	23:00	59.2	61.4		55	Measured Noise Level<Baseline*	Fine	0.6
10-Oct-19	23:00	57.3	61.4		55	Measured Noise Level<Baseline*	Fine	0.9
17-Oct-19	23:01	58.5	61.4		55	Measured Noise Level<Baseline*	Fine	0.6
24-Oct-19	23:00	58.5	61.4		55	Measured Noise Level<Baseline*	Fine	0.6
31-Oct-19	23:03	60.2	61.4		55	Measured Noise Level<Baseline*	Fine	0.2
7-Nov-19	23:04	60.7	61.4		55	Measured Noise Level<Baseline*	Fine	0.4
14-Nov-19	23:00	58.5	61.4		55	Measured Noise Level<Baseline*	Fine	0.6
21-Nov-19	23:00	59.1	61.4		55	Measured Noise Level<Baseline*	Fine	1.6
28-Nov-19	23:00	58.2	61.4		55	Measured Noise Level<Baseline*	Fine	1.2

\*Note: Measured Average Leq (15min) was lower than baseline level: 61.4 dB(A).

### NMS 2 Villa Le Parc

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
2-Aug-19	23:00	51.9	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Cloudy	1.2
9-Aug-19	2:52	54.7	49.7		55	Measured Noise Level<Limit Level	Fine	0.0
16-Aug-19	3:47	48.4	49.7		55	Measured Noise Level<Limit Level	Fine	0.0
23-Aug-19	3:00	48.4	49.7		55	Measured Noise Level<Limit Level	Fine	0.0
29-Aug-19	23:00	50.3	49.7		55	Measured Noise Level<Limit Level	Fine	0.1
4-Sep-19	23:21	50.4	49.7		55	Measured Noise Level<Limit Level	Hazy	0.2
13-Sep-19	2:22	45.5	49.7		55	Measured Noise Level<Limit Level	Fine	0.1
20-Sep-19	2:48	44.5	49.7		55	Measured Noise Level<Limit Level	Fine	0.1
27-Sep-19	2:52	45.9	49.7		55	Measured Noise Level<Limit Level	Fine	0.1
4-Oct-19	3:18	44.8	49.7		55	Measured Noise Level<Limit Level	Fine	0.1
11-Oct-19	2:50	44.9	49.7		55	Measured Noise Level<Limit Level	Fine	0.1
18-Oct-19	2:52	46.1	49.7		55	Measured Noise Level<Limit Level	Fine	0.1
25-Oct-19	3:41	45.1	49.7		55	Measured Noise Level<Limit Level	Fine	0.3
1-Nov-19	3:19	43.6	49.7		55	Measured Noise Level<Limit Level	Fine	0.3
8-Nov-19	3:09	46.3	49.7		55	Measured Noise Level<Limit Level	Fine	0.7
15-Nov-19	2:30	44.2	49.7		55	Measured Noise Level<Limit Level	Fine	0.7
22-Nov-19	2:35	46.9	49.7		55	Measured Noise Level<Limit Level	Fine	0.3
29-Nov-19	2:37	45.5	49.7		55	Measured Noise Level<Limit Level	Fine	0.5

\*Note: Measured Average Leq (15min) was lower than Limit Level: 55 dB(A).

### NMS 3 Hilton Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	1:35	65.7	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline*	Cloudy	1
8-Aug-19	23:47	64.1	70.9		55	Measured Noise Level<Baseline*	Fine	0
16-Aug-19	0:12	62.2	70.9		55	Measured Noise Level<Baseline*	Fine	0.1
22-Aug-19	23:20	65.6	70.9		55	Measured Noise Level<Baseline*	Fine	0
29-Aug-19	23:20	65.4	70.9		55	Measured Noise Level<Baseline*	Fine	0.1
3-Sep-19	23:00	66.0	70.9		55	Measured Noise Level<Baseline*	Hazy	1.6
12-Sep-19	23:01	64.2	70.9		55	Measured Noise Level<Baseline*	Fine	0.1
19-Sep-19	23:03	62.7	70.9		55	Measured Noise Level<Baseline*	Fine	0.1
26-Sep-19	23:06	63.0	70.9		55	Measured Noise Level<Baseline*	Fine	0.1
3-Oct-19	23:07	62.4	70.9		55	Measured Noise Level<Baseline*	Fine	0.1
10-Oct-19	23:04	62.5	70.9		55	Measured Noise Level<Baseline*	Fine	0.1
17-Oct-19	23:01	62.7	70.9		55	Measured Noise Level<Baseline*	Fine	0.1
24-Oct-19	23:05	62.7	70.9		55	Measured Noise Level<Baseline*	Fine	0.3
31-Oct-19	23:06	60.6	70.9		55	Measured Noise Level<Baseline*	Fine	0.3
7-Nov-19	23:03	62.1	70.9		55	Measured Noise Level<Baseline*	Fine	0.5
14-Nov-19	23:05	64.2	70.9		55	Measured Noise Level<Baseline*	Fine	0.6
21-Nov-19	23:00	62.1	70.9		55	Measured Noise Level<Baseline*	Fine	0.2
28-Nov-19	23:00	62.0	70.9		55	Measured Noise Level<Baseline*	Fine	0.7

\*Note: Measured Average Leq (15min) was lower than baseline level: 70.9 dB(A).

**NMS 4 Tin Liu**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
2-Aug-19	23:36	58.3	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline*	Cloudy	1
9-Aug-19	2:10	55.9	62.6		55	Measured Noise Level<Baseline*	Fine	0
16-Aug-19	3:24	75.2	62.6		55	75.0*	Fine	0.1
22-Aug-19	23:01	55.9	62.6		55	Measured Noise Level<Baseline*	Fine	0
30-Aug-19	2:47	55.8	62.6		55	Measured Noise Level<Baseline*	Fine	0.1
5-Sep-19	3:06	56.3	62.6		55	Measured Noise Level<Baseline*	Hazy	0.1
13-Sep-19	2:32	55.9	62.6		55	Measured Noise Level<Baseline*	Fine	0.4
20-Sep-19	2:10	56.5	62.6		55	Measured Noise Level<Baseline*	Fine	1.2
27-Sep-19	2:15	66.7	62.6		55	64.5*	Fine	0
4-Oct-19	2:30	57.3	62.6		55	Measured Noise Level<Baseline*	Fine	0.6
11-Oct-19	3:25	57.5	62.6		55	Measured Noise Level<Baseline*	Fine	0.6
18-Oct-19	3:11	55.0	62.6		55	Measured Noise Level<Baseline*	Fine	0.6
25-Oct-19	3:20	56.5	62.6		55	Measured Noise Level<Baseline*	Fine	0.4
1-Nov-19	2:52	52.4	62.6		55	Measured Noise Level<Limit Level	Fine	0.4
8-Nov-19	2:41	53.8	62.6		55	Measured Noise Level<Limit Level	Fine	0.6
15-Nov-19	3:11	53.5	62.6		55	Measured Noise Level<Limit Level	Fine	0.6
22-Nov-19	2:29	54.1	62.6		55	Measured Noise Level<Limit Level	Fine	0.6
29-Nov-19	3:01	54.6	62.6		55	Measured Noise Level<Limit Level	Fine	0.8

\*Note: Measured Average Leq (15min) was lower or equal to baseline level: 62.6 dB(A) or Limit Level: 55 dB(A).

**NMS 5A Wai Wah Centre**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	0:17	66.5	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline*	Cloudy	1.2
9-Aug-19	0:08	66.5	67.9		55	Measured Noise Level<Baseline*	Fine	0
16-Aug-19	0:43	61.8	67.9		55	Measured Noise Level<Baseline*	Fine	0.7
23-Aug-19	0:50	67.6	67.9		55	Measured Noise Level<Baseline*	Fine	0
30-Aug-19	0:53	66.5	67.9		55	Measured Noise Level<Baseline*	Fine	0.7
3-Sep-19	23:20	67.0	67.9		55	Measured Noise Level<Baseline*	Hazy	1.7
12-Sep-19	23:25	67.7	67.9		55	Measured Noise Level<Baseline*	Fine	0.7
19-Sep-19	23:30	68.0	67.9		55	49.8**	Fine	0.7
26-Sep-19	23:20	69.4	67.9		55	63.9***	Fine	0
3-Oct-19	23:20	67.6	67.9		55	Measured Noise Level<Baseline*	Fine	0.7
10-Oct-19	23:30	70.1	67.9		55	66.1***	Fine	0.6
17-Oct-19	23:30	68.1	67.9		55	54.7***	Fine	0.6
24-Oct-19	23:26	71.2	67.9		55	68.5***	Fine	0.6
31-Oct-19	23:23	71.0	67.9		55	68.0***	Fine	0.6
7-Nov-19	23:29	67.6	67.9		55	Measured Noise Level<Baseline*	Fine	0.2
14-Nov-19	23:26	68.1	67.9		55	54.6***	Fine	0.6
21-Nov-19	23:20	70.9	67.9		55	68.0**	Fine	0.5
28-Nov-19	23:30	67.9	67.9		55	Measured Noise Level<Baseline*	Fine	1.2

\*Note: Measured Average Leq (15min) was lower than baseline level: 67.9 dB(A).

\*\*The Corrected Noise Level in Leq (15min) was lower than Limit Level: 55 dB(A).

\*\*\*The Corrected Noise Level in Leq (15min) was greater than Limit Level: 55 dB(A). There was an exceedance. The exceedance is proved to be not project related by ET's investigation.

**NMS 6A Wai Wah Centre**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	0:35	67.3	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline*	Cloudy	1
9-Aug-19	0:28	66.6	71.5		55	Measured Noise Level<Baseline*	Fine	0
16-Aug-19	1:05	64.4	71.5		55	Measured Noise Level<Baseline*	Fine	0.6
23-Aug-19	0:33	69.0	71.5		55	Measured Noise Level<Baseline*	Fine	0.1
30-Aug-19	0:35	67.4	71.5		55	Measured Noise Level<Baseline*	Fine	0.7
3-Sep-19	23:21	70.1	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline*	Hazy	0.3
12-Sep-19	23:22	68.6	71.5		55	Measured Noise Level<Baseline*	Fine	0.2
19-Sep-19	23:27	67.0	71.5		55	Measured Noise Level<Baseline*	Fine	0.1
26-Sep-19	23:28	68.9	71.5		55	Measured Noise Level<Baseline*	Fine	0.1
3-Oct-19	23:32	70.5	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline*	Fine	0.1
10-Oct-19	23:26	70.3	71.5		55	Measured Noise Level<Baseline*	Fine	0.1
17-Oct-19	23:23	70.3	71.5		55	Measured Noise Level<Baseline*	Fine	0.1
24-Oct-19	23:26	71.0	71.5		55	Measured Noise Level<Baseline*	Fine	0.3
31-Oct-19	23:28	68.4	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline*	Fine	0.3
7-Nov-19	23:24	69.2	71.5		55	Measured Noise Level<Baseline*	Fine	0.4
14-Nov-19	23:25	68.6	71.5		55	Measured Noise Level<Baseline*	Fine	0.6
21-Nov-19	23:22	69.9	71.5		55	Measured Noise Level<Baseline*	Fine	0.2
28-Nov-19	23:23	68.2	71.5	55	Measured Noise Level<Baseline*	Fine	0.6	

\*Note: Measured Average Leq (15min) was lower than baseline level: 71.5 dB(A).

**NMS 7 Tin Liu**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
2-Aug-19	23:47	56.5	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Cloudy	1.2
9-Aug-19	1:49	58.3	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0
16-Aug-19	3:04	52.3	59.0	51.4 - 65.5	55	Measured Noise Level<Limit Level*	Fine	0.1
22-Aug-19	23:19	58.9	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0
30-Aug-19	2:33	56.9	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0.1
5-Sep-19	2:46	55.9	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Hazy	0.1
13-Sep-19	2:50	54.2	59.0	51.4 - 65.5	55	Measured Noise Level<Limit Level*	Fine	1.6
20-Sep-19	2:32	55.3	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0.4
27-Sep-19	3:10	55.7	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0
4-Oct-19	2:10	58.1	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0.5
11-Oct-19	3:00	53.5	59.0	51.4 - 65.5	55	Measured Noise Level<Limit Level*	Fine	0.6
18-Oct-19	2:51	55.7	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0.6
25-Oct-19	3:00	57.0	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0.6
1-Nov-19	2:25	54.6	59.0	51.4 - 65.5	55	Measured Noise Level<Limit Level*	Fine	0.6
8-Nov-19	2:30	53.4	59.0	51.4 - 65.5	55	Measured Noise Level<Limit Level*	Fine	0.4
15-Nov-19	2:50	53.4	59.0	51.4 - 65.5	55	Measured Noise Level<Limit Level*	Fine	0.6
22-Nov-19	2:10	57.1	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0.4
29-Nov-19	2:43	55.5	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline*	Fine	0.4

\*Note: Measured Average Leq (15min) was lower than baseline level: 59.0 dB(A) or Limit Level: 55 dB(A).

**NMS 8 Shatin Plaza**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	2:05	58.7	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	1.2
9-Aug-19	1:08	60.1	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0
16-Aug-19	2:09	57.3	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.3
22-Aug-19	23:55	61.8	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.1
29-Aug-19	23:55	58.5	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.4
3-Sep-19	23:40	62.2	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Hazy	0.2
12-Sep-19	23:43	55.2	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.2
19-Sep-19	23:50	58.0	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.1
26-Sep-19	23:52	58.5	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.1
4-Oct-19	0:01	58.8	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.1
10-Oct-19	23:50	57.2	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.1
17-Oct-19	23:47	59.6	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.1
24-Oct-19	23:50	59.1	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.3
31-Oct-19	23:58	61.0	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.3
7-Nov-19	23:52	62.0	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.3
14-Nov-19	23:46	55.2	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.6
21-Nov-19	23:43	59.2	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.2
28-Nov-19	23:45	59.0	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.6

\*Note: Measured Average Leq (15min) was lower than baseline level: 64.4 dB(A).

**NMS 9 Lek Yuen Estate**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	2:40	56.9	53.5	39.5 - 63.1	55	54.2***	Fine	1
10-Aug-19	3:56	55.9	53.5	39.5 - 63.1	55	52.1**	Fine	0.2
17-Aug-19	3:25	55.3	53.5	39.5 - 63.1	55	50.6**	Fine	0.2
23-Aug-19	1:25	57.6	53.5	39.5 - 63.1	55	55.4**	Fine	0
30-Aug-19	1:28	57.1	53.5	39.5 - 63.1	55	54.7**	Fine	0.7
4-Sep-19	0:45	56.5	53.5	39.5 - 63.1	55	53.5*	Hazy	2.6
13-Sep-19	0:06	55.6	53.5	39.5 - 63.1	55	51.4*	Fine	0.1
20-Sep-19	0:14	55.9	53.5	39.5 - 63.1	55	52.2*	Fine	0.1
27-Sep-19	0:15	56.1	53.5	39.5 - 63.1	55	52.7*	Fine	0.1
4-Oct-19	0:31	57.2	53.5	39.5 - 63.1	55	54.7*	Fine	0.1
11-Oct-19	0:15	57.1	53.5	39.5 - 63.1	55	54.6*	Fine	0.1
18-Oct-19	0:12	56.1	53.5	39.5 - 63.1	55	52.6*	Fine	0.1
25-Oct-19	1:13	56.9	53.5	39.5 - 63.1	55	54.2*	Fine	0.1
1-Nov-19	0:18	58.0	53.5	39.5 - 63.1	55	56.2**	Fine	0.1
8-Nov-19	0:16	56.5	53.5	39.5 - 63.1	55	53.4*	Fine	0.1
15-Nov-19	0:09	55.6	53.5	39.5 - 63.1	55	51.4*	Fine	0.6
22-Nov-19	0:06	55.6	53.5	39.5 - 63.1	55	51.4*	Fine	0.2
29-Nov-19	0:07	57.1	53.5	39.5 - 63.1	55	54.5*	Fine	0.5

\*The Corrected Noise Level in Leq (15min) was lower than Limit Level: 55 dB(A).

\*\*The Corrected Noise Level in Leq (15min) was greater than Limit Level: 55 dB(A). There was an exceedance. The exceedance is proved to be not project related by ET's investigation.

**NMS 11 Sheung Wo Che**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	4:00	56.0	53.2	46.1 - 62.8	55	52.7*	Fine	0.6
10-Aug-19	0:53	56.1	53.2	46.1 - 62.8	55	52.9*	Fine	0.6
16-Aug-19	23:37	54.6	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
23-Aug-19	1:31	49.1	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.3
30-Aug-19	1:16	55.2	53.2	46.1 - 62.8	55	51.0*	Fine	0.0
5-Sep-19	1:37	52.2	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Hazy	0.6
13-Sep-19	1:42	53.9	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
20-Sep-19	1:22	52.4	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
27-Sep-19	3:20	53.4	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.3
4-Oct-19	2:50	53.1	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
11-Oct-19	2:34	47.8	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
18-Oct-19	2:13	50.1	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
25-Oct-19	2:14	48.7	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.3
1-Nov-19	1:46	49.4	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.3
8-Nov-19	1:46	48.0	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
15-Nov-19	2:10	48.7	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
22-Nov-19	1:18	49.9	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
29-Nov-19	1:59	47.9	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.3

\*Note: Measured Average Leq (15min) was lower than Limit Level: 55 dB(A).

**NMS 13 Lek Yuen Estate**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	3:06	58.8	57.3	45.4 - 72.5	55	53.5**	Fine	1.1
10-Aug-19	3:34	56.5	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.6
17-Aug-19	2:57	53.6	57.3	45.4 - 72.5	55	Measured Noise Level<Limit Level*	Fine	0.2
23-Aug-19	1:45	57.2	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.0
30-Aug-19	1:48	55.2	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.9
4-Sep-19	1:32	57.1	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Hazy	0.1
13-Sep-19	0:10	57.7	57.3	45.4 - 72.5	55	47.6*	Hazy	0.1
20-Sep-19	0:24	57.7	57.3	45.4 - 72.5	55	46.5*	Hazy	0.1
27-Sep-19	0:45	57.4	57.3	45.4 - 72.5	55	42.1**	Hazy	0.1
4-Oct-19	0:11	57.6	57.3	45.4 - 72.5	55	45.4**	Fine	0.0
11-Oct-19	0:52	55.8	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.6
18-Oct-19	0:29	56.0	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.6
25-Oct-19	0:50	57.5	57.3	45.4 - 72.5	55	43.5**	Fine	0.6
1-Nov-19	0:16	57.3	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.6
8-Nov-19	0:13	56.1	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.7
15-Nov-19	0:37	55.6	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.7
22-Nov-19	0:44	57.1	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.7
29-Nov-19	0:30	56.4	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline*	Fine	0.7

\*Note: Measured Average Leq (15min) was lower than baseline level: 57.3 dB(A).

**NMS 14 Sheung Wo Che**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	3:36	54.9	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	1.1
10-Aug-19	1:10	57.1	54.1	46.1 - 62.8	55	54.0**	Fine	0.2
16-Aug-19	23:58	59.4	54.1	46.1 - 62.8	55	57.8***	Fine	0.0
23-Aug-19	1:10	54.1	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	0.1
30-Aug-19	0:57	55.2	54.1	46.1 - 62.8	55	48.9**	Fine	0.1
5-Sep-19	1:14	56.1	54.1	46.1 - 62.8	55	51.7**	Hazy	4:48
13-Sep-19	1:24	53.8	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Hazy	4:48
20-Sep-19	1:46	54.3	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Hazy	4:48
27-Sep-19	1:46	55.3	54.1	46.1 - 62.8	55	49.3*	Hazy	4:48
4-Oct-19	2:15	55.9	54.1	46.1 - 62.8	55	51.2**	Fine	0.1
11-Oct-19	1:44	53.1	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	0.1
18-Oct-19	1:44	54.3	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	0.1
25-Oct-19	2:40	54.9	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	0.2
1-Nov-19	1:56	53.1	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	0.2
8-Nov-19	1:45	51.4	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	14:24
15-Nov-19	1:27	53.8	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	14:24
22-Nov-19	1:29	53.2	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	14:24
29-Nov-19	1:29	53.8	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level*	Fine	14:24

\*Note: Measured Average Leq (15min) was lower than Limit Level: 55 dB(A).

\*\*The Corrected Noise Level in Leq (15min) was lower than Limit Level: 55 dB(A).

**NMS 15 Ha Wo Che**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	1:28	58.6	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Fine	0.2
17-Aug-19	0:40	59.7	58.8	48.4 - 69.7	55	52.7*	Fine	0.0
23-Aug-19	0:53	56.2	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Fine	0.1
30-Aug-19	0:00	59.2	58.8	48.4 - 69.7	55	48.5*	Fine	0.1
5-Sep-19	0:40	57.4	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Hazy	0.2
13-Sep-19	1:22	56.9	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Fine	0.0
20-Sep-19	1:02	56.4	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Fine	1.1
27-Sep-19	1:58	55.9	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Fine	0.0
4-Oct-19	1:30	56.4	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Fine	0.6
11-Oct-19	2:12	53.3	58.8	48.4 - 69.7	55	Measured Noise Level<Limit Level*	Fine	0.6
18-Oct-19	1:47	54.1	58.8	48.4 - 69.7	55	Measured Noise Level<Limit Level*	Fine	0.6
25-Oct-19	1:54	55.8	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Fine	0.4
1-Nov-19	1:37	55.0	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Fine	0.4
8-Nov-19	1:26	55.5	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline*	Fine	0.6
15-Nov-19	1:42	53.3	58.8	48.4 - 69.7	55	Measured Noise Level<Limit Level*	Fine	0.0
22-Nov-19	1:58	53.2	58.8	48.4 - 69.7	55	Measured Noise Level<Limit Level*	Fine	0.7
29-Nov-19	1:36	54.8	58.8	48.4 - 69.7	55	Measured Noise Level<Limit Level*	Fine	1.1

\*Note: Measured Average Leq (15min) was lower than baseline level: 58.8 dB(A) or Limit Level: 55 dB(A).

**NMS 16 Ha Wo Che**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
10-Aug-19	2:13	56.4	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.2
17-Aug-19	1:25	56.5	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.1
23-Aug-19	0:24	56.2	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.0
29-Aug-19	23:45	58.3	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.1
5-Sep-19	0:12	57.9	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Hazy	0.2
13-Sep-19	1:03	55.3	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.0
20-Sep-19	1:22	55.8	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.1
27-Sep-19	1:22	54.1	60.1	51.4 - 69.5	55	Measured Noise Level<Limit Level*	Fine	0.1
4-Oct-19	1:51	56.1	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.1
11-Oct-19	1:22	55.6	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.1
18-Oct-19	1:18	56.5	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.1
25-Oct-19	2:20	55.9	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.3
1-Nov-19	1:32	53.8	60.1	51.4 - 69.5	55	Measured Noise Level<Limit Level*	Fine	0.3
8-Nov-19	1:32	54.5	60.1	51.4 - 69.5	55	Measured Noise Level<Limit Level*	Fine	0.8
15-Nov-19	1:06	55.3	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.0
22-Nov-19	1:08	56.2	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.6
29-Nov-19	1:09	58.3	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline*	Fine	0.5

\*Note: Measured Average Leq (15min) was lower than baseline level: 60.1 dB(A) or Limit Level: 55 dB(A).

**NMS 18 Ha Wo Che**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
31-Jul-19	1:35	64.6	63.2	56.0 - 72.1	55	59.1*	Fine	0.1
10-Aug-19	1:56	56.6	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.1
17-Aug-19	1:04	57.9	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.1
23-Aug-19	0:05	60.4	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.0
29-Aug-19	23:28	60.2	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.1
4-Sep-19	23:51	58.8	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Hazy	0.3
13-Sep-19	0:46	58.4	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.0
20-Sep-19	1:02	59.1	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.1
27-Sep-19	1:03	57.0	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.1
4-Oct-19	1:29	58.7	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.1
11-Oct-19	1:04	55.6	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.1
18-Oct-19	0:59	55.7	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.1
25-Oct-19	2:01	52.7	63.2	56.0 - 72.1	55	Measured Noise Level<Limit Level*	Fine	0.3
1-Nov-19	1:21	56.2	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.3
8-Nov-19	1:16	50.1	63.2	56.0 - 72.1	55	Measured Noise Level<Limit Level*	Fine	0.2
15-Nov-19	0:49	58.4	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.0
22-Nov-19	0:50	54.2	63.2	56.0 - 72.1	55	Measured Noise Level<Limit Level*	Fine	0.2
29-Nov-19	0:51	55.6	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline*	Fine	0.5

\*Note: Measured Average Leq (15min) was lower than baseline level: 63.2 dB(A) or Limit Level: 55 dB(A).

**NMS 19 Wo Che Estate**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
31-Jul-19	1:35	60.8	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.1
10-Aug-19	2:57	58.8	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.0
17-Aug-19	2:12	61.5	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.3
23-Aug-19	2:33	59.6	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.0
30-Aug-19	2:16	59.7	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.9
4-Sep-19	1:40	59.7	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Hazy	1.7
13-Sep-19	0:30	54.2	61.7	53.8 - 72.8	55	Measured Noise Level<Limit Level	Fine	0.0
20-Sep-19	0:34	55.3	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	1.0
27-Sep-19	1:12	53.3	61.7	53.8 - 72.8	55	Measured Noise Level<Limit Level	Fine	0.0
4-Oct-19	0:36	55.8	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.2
11-Oct-19	1:16	53.8	61.7	53.8 - 72.8	55	Measured Noise Level<Limit Level	Fine	0.7
18-Oct-19	1:12	58.6	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.7
25-Oct-19	1:00	57.0	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.6
1-Nov-19	0:44	59.2	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.6
8-Nov-19	0:41	60.2	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.7
15-Nov-19	1:03	53.8	61.7	53.8 - 72.8	55	Measured Noise Level<Limit Level	Fine	0.0
22-Nov-19	1:11	55.2	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.6
29-Nov-19	0:51	56.8	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline*	Fine	0.8

\*Note: Measured Average Leq (15min) was lower than baseline level: 61.7 dB(A) or Limit Level: 55 dB(A).

**NMS 20 Wo Che Estate**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
31-Jul-19	1:35	53.5	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.2
10-Aug-19	2:38	55.4	57.7	48.6 - 71.7	55	Measured Noise Level<Baseline*	Fine	0.0
17-Aug-19	1:53	58.4	57.7	48.6 - 71.7	55	50.0*	Fine	0.3
23-Aug-19	2:53	55.3	57.7	48.6 - 71.7	55	Measured Noise Level<Baseline*	Fine	0.0
30-Aug-19	2:41	52.0	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.6
4-Sep-19	2:22	53.6	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Hazy	1.2
13-Sep-19	0:46	53.4	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.0
20-Sep-19	0:52	54.4	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	1.2
27-Sep-19	1:23	54.0	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.0
4-Oct-19	0:56	54.4	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.4
11-Oct-19	1:35	50.9	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.7
18-Oct-19	1:04	53.9	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.7
25-Oct-19	1:19	53.2	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.7
1-Nov-19	1:06	52.5	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.7
8-Nov-19	1:01	53.7	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.7
15-Nov-19	1:22	50.9	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.0
22-Nov-19	1:29	53.4	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.7
29-Nov-19	1:29	54.5	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.7

\*Note: Measured Average Leq (15min) was lower than Limit Level: 55 dB(A).

**NMS 23 Pai Tau**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	4:38	56.6	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline*	Fine	1.1
9-Aug-19	1:30	60.3	59.9	47.8 - 69.8	55	49.7*	Fine	0.0
16-Aug-19	2:38	50.0	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.2
23-Aug-19	2:17	51.9	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.0
30-Aug-19	1:59	70.3	59.9	47.8 - 69.8	55	69.9*	Fine	0.1
5-Sep-19	2:25	53.6	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Hazy	0.1
13-Sep-19	1:52	51.3	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.1
20-Sep-19	2:15	49.8	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.1
27-Sep-19	2:18	51.4	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.1
4-Oct-19	2:49	55.8	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline*	Fine	0.1
11-Oct-19	2:16	53.7	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.1
18-Oct-19	2:12	49.8	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.1
25-Oct-19	3:12	50.7	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.2
1-Nov-19	2:29	52.6	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.2
8-Nov-19	2:17	52.0	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.6
15-Nov-19	1:55	51.3	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.4
22-Nov-19	1:57	50.9	59.9	47.8 - 69.8	55	Measured Noise Level<Limit Level	Fine	0.2
29-Nov-19	1:59	58.1	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline*	Fine	0.5

\*Note: Measured Average Leq (15min) was lower than baseline level: 59.9 dB(A) or Limit Level: 55 dB(A).

**NMS 24 Shatin Plaza**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	5:13	58.0	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline*	Fine	1.2
9-Aug-19	0:50	58.7	58.0	50.2 - 66.7	55	50.6**	Fine	0.0
16-Aug-19	1:48	55.2	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline*	Fine	0.3
23-Aug-19	0:13	59.4	58.0	50.2 - 66.7	55	53.9**	Fine	0.1
30-Aug-19	0:13	58.5	58.0	50.2 - 66.7	55	49.1**	Fine	0.4
3-Sep-19	23:51	59.1	58.0	50.2 - 66.7	55	52.6**	Fine	0.4
12-Sep-19	23:46	58.2	58.0	50.2 - 66.7	55	44.9**	Fine	0.3
19-Sep-19	23:58	58.4	58.0	50.2 - 66.7	55	47.9*	Fine	0.9
27-Sep-19	0:10	58.3	58.0	50.2 - 66.7	55	46.1**	Fine	0.0
3-Oct-19	23:57	58.2	58.0	50.2 - 66.7	55	44.8**	Fine	0.5
11-Oct-19	0:16	58.2	58.0	50.2 - 66.7	55	44.8**	Fine	0.5
18-Oct-19	0:02	57.6	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline*	Fine	0.6
25-Oct-19	0:19	58.5	58.0	50.2 - 66.7	55	49.3**	Fine	0.7
31-Oct-19	23:51	56.4	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline*	Fine	0.7
7-Nov-19	23:47	57.3	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline*	Fine	0.7
15-Nov-19	0:02	56.4	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline*	Fine	0.6
22-Nov-19	0:12	57.7	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline*	Fine	0.5
28-Nov-19	23:58	57.8	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline*	Fine	1.0

\*Note: Measured Average Leq (15min) was lower than baseline level: 58.0 dB(A).

\*\*The Corrected Noise Level in Leq (15min) was lower than Limit Level: 55 dB(A).

**NMS 25A Sheung Wo Che**

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
3-Aug-19	4:18	58.4	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline*	Fine	0.5
10-Aug-19	0:35	59.4	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline*	Fine	0.6
16-Aug-19	23:00	63.3	59.7	50.3 - 68.4	55	60.8*	Fine	0.6
23-Aug-19	1:55	52.7	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.4
30-Aug-19	1:38	51.3	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.2
5-Sep-19	2:04	50.6	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.5
13-Sep-19	2:10	48.2	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.6
20-Sep-19	1:40	48.7	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.6
27-Sep-19	3:42	59.5	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline*	Fine	0.4
4-Oct-19	1:50	59.1	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline*	Fine	0.5
11-Oct-19	1:50	46.9	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.6
18-Oct-19	2:32	49.9	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.6
25-Oct-19	2:35	50.2	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.4
1-Nov-19	2:02	52.9	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.4
8-Nov-19	2:09	54.3	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.5
15-Nov-19	2:28	46.9	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.6
22-Nov-19	1:38	47.6	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.6
29-Nov-19	2:19	50.1	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.4

\*Note: Measured Average Leq (15min) was lower than baseline level: 59.7 dB(A) or Limit Level: 55 dB(A).

**NMS 26 Wo Che Estate**

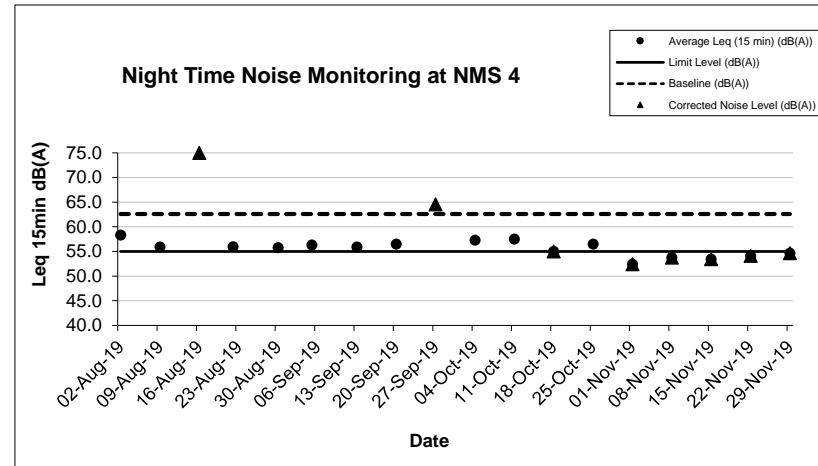
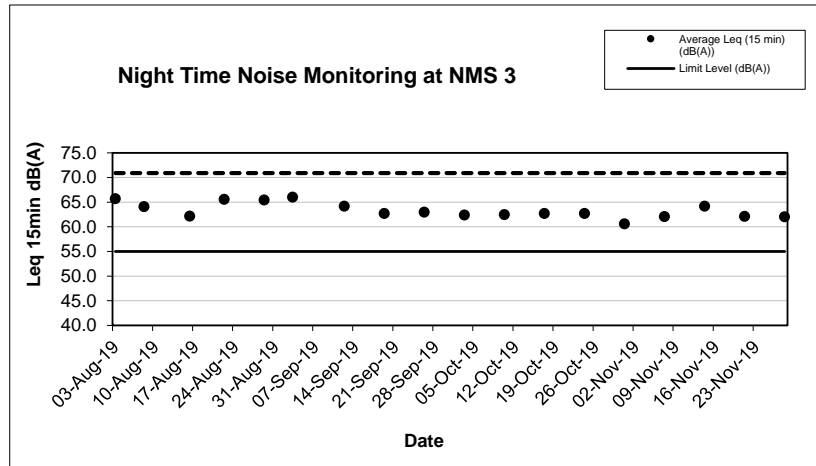
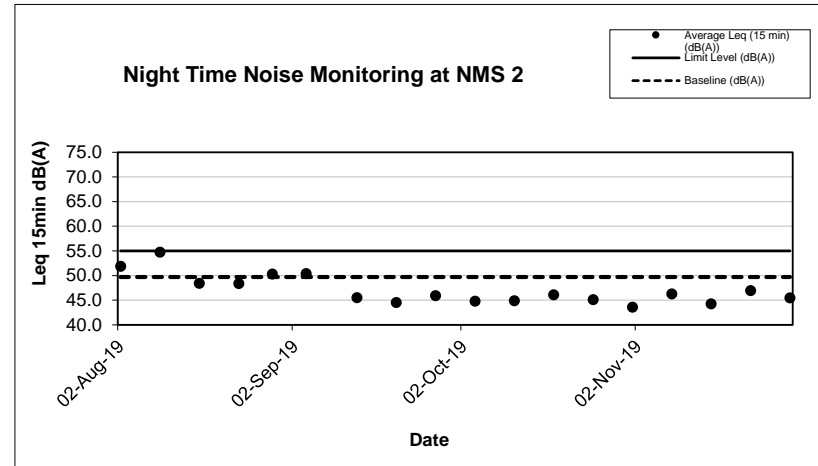
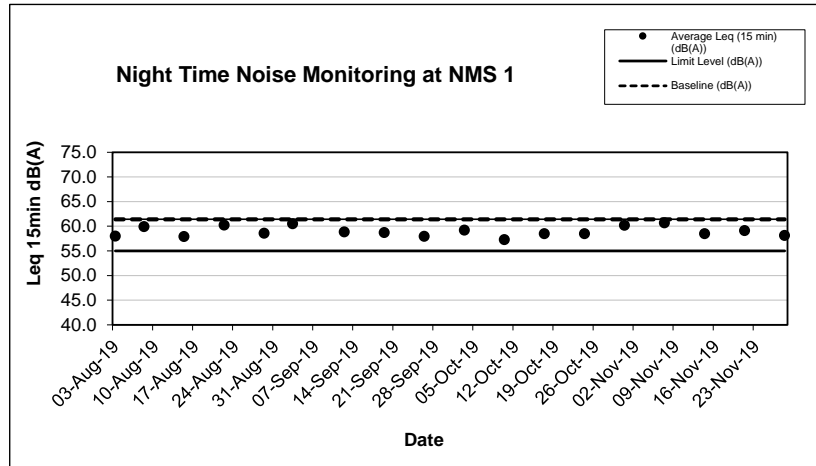
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
31-Jul-19	1:35	60.8	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.1
10-Aug-19	3:18	60.5	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.8
17-Aug-19	2:37	58.0	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.3
23-Aug-19	2:13	60.7	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.0
30-Aug-19	0:02	67.0	61.2	45.7 - 70.1	55	65.7*	Fine	0.1
4-Sep-19	1:57	61.0	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Hazy	2.1
13-Sep-19	0:27	60.6	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.0
20-Sep-19	0:40	58.6	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.1
27-Sep-19	0:43	59.6	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.1
4-Oct-19	1:04	60.1	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	0	0.1
11-Oct-19	0:43	58.8	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.2
18-Oct-19	0:39	60.1	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.2
25-Oct-19	1:41	61.1	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.3
1-Nov-19	0:53	63.2	61.2	45.7 - 70.1	55	58.8**	Fine	0.3
8-Nov-19	0:44	65.9	61.2	45.7 - 70.1	55	64.1*	Fine	0.7
15-Nov-19	0:30	60.6	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.0
22-Nov-19	0:31	59.0	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.8
29-Nov-19	0:32	59.6	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline*	Fine	0.6

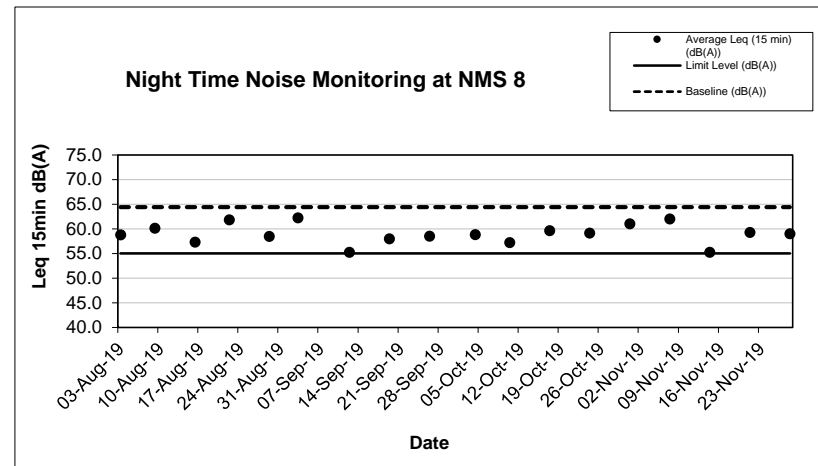
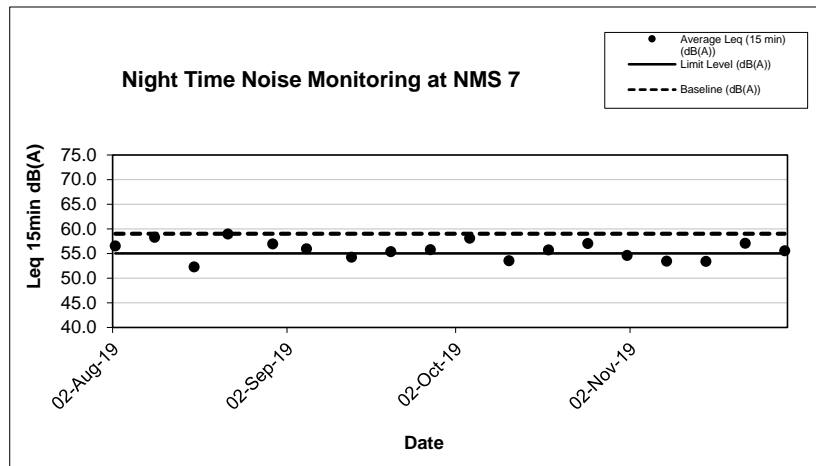
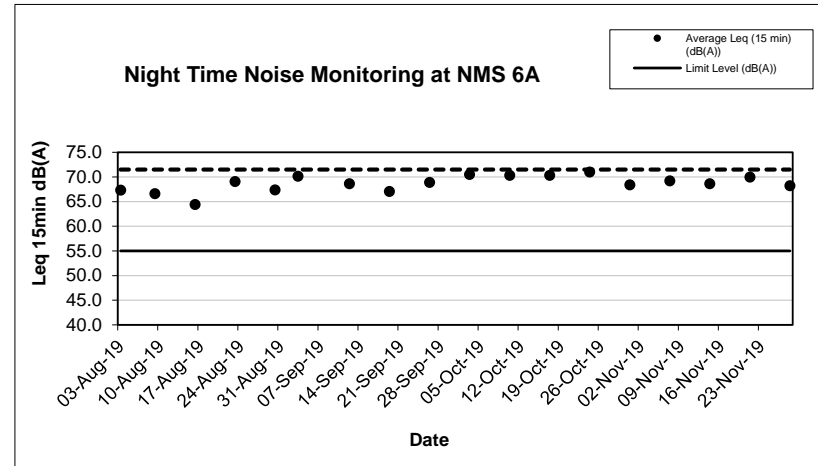
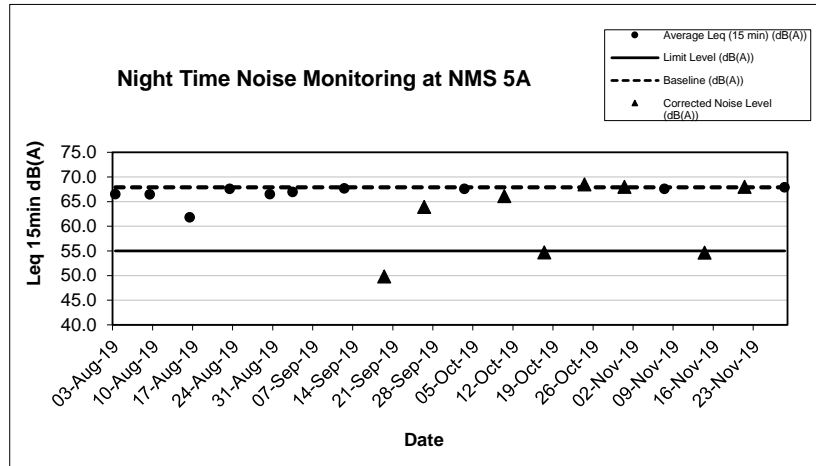
\*Note: Measured Average Leq (15min) was lower than baseline level: 61.2 dB(A).

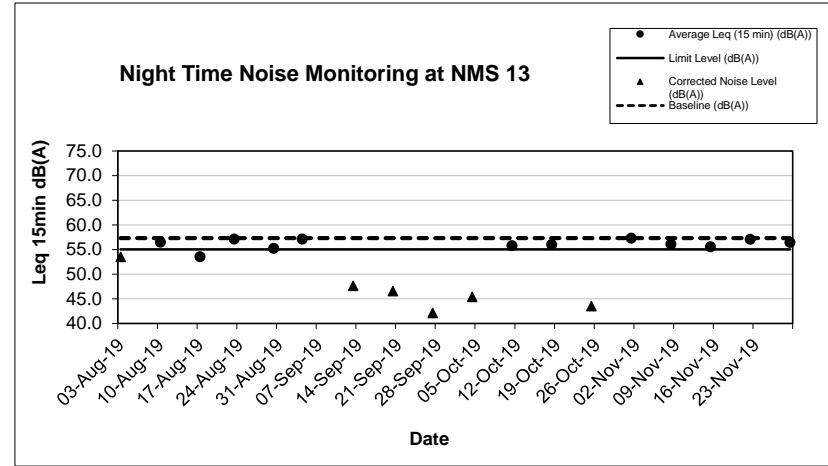
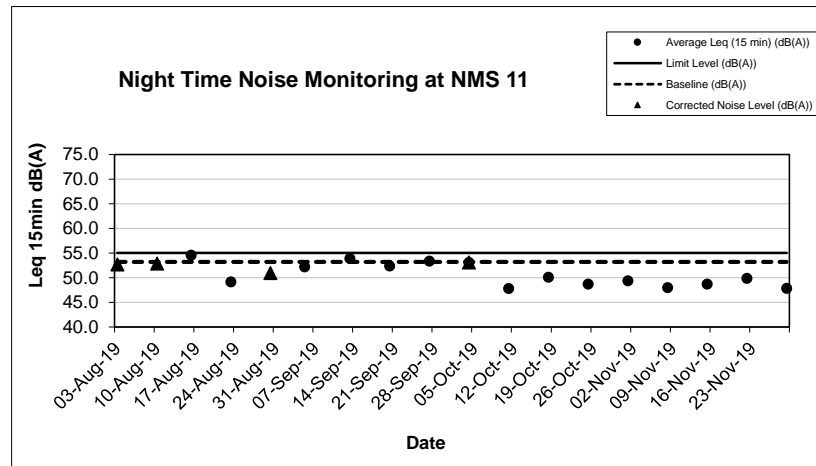
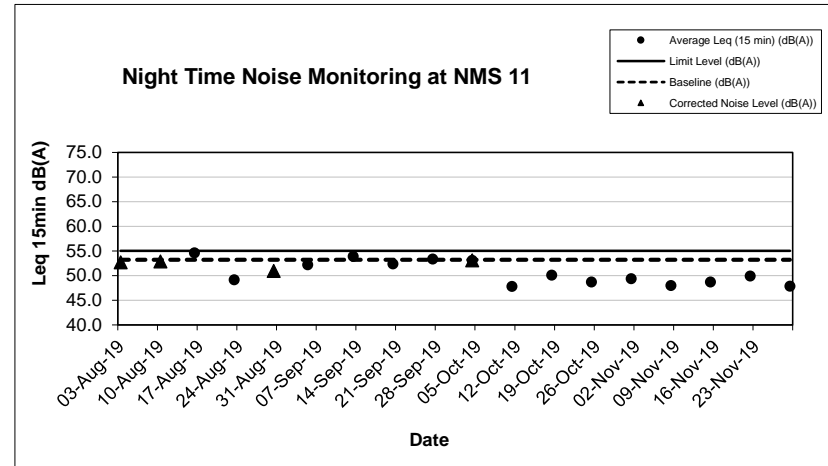
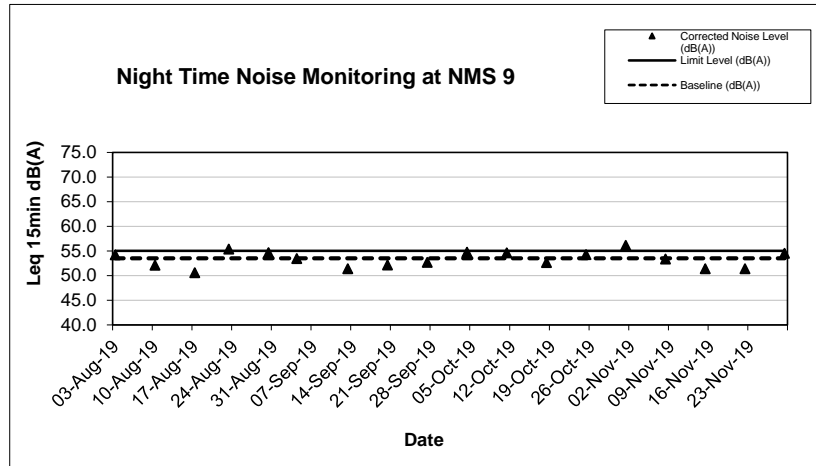
\*\*The Corrected Noise Level in Leq (15min) was greater than Limit Level: 55 dB(A). There was an exceedance. The exceedance is proved to be not project related by ET's investigation.

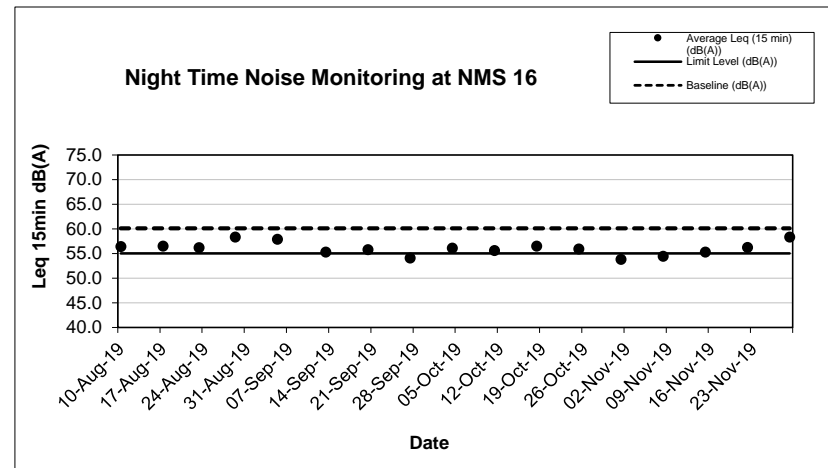
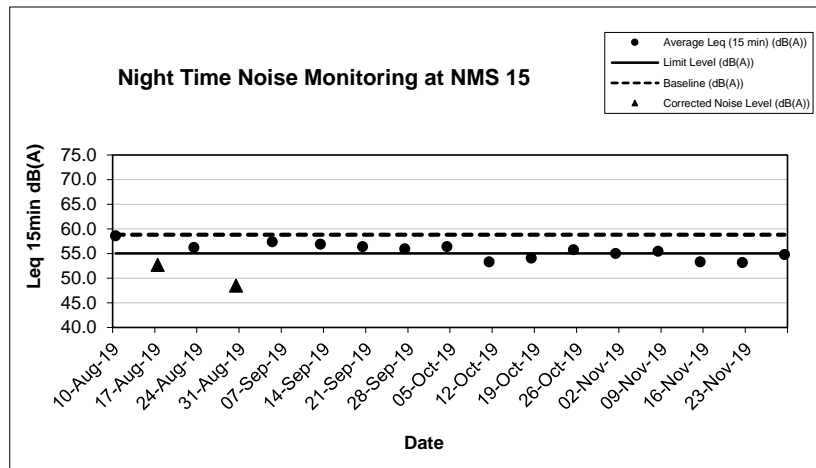
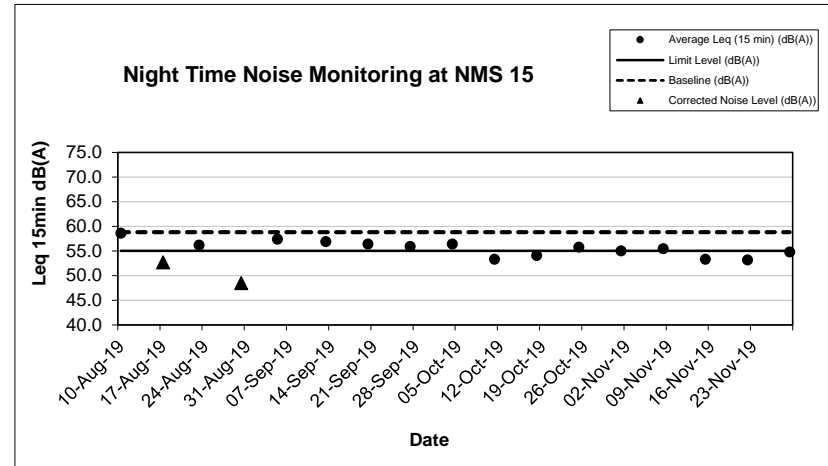
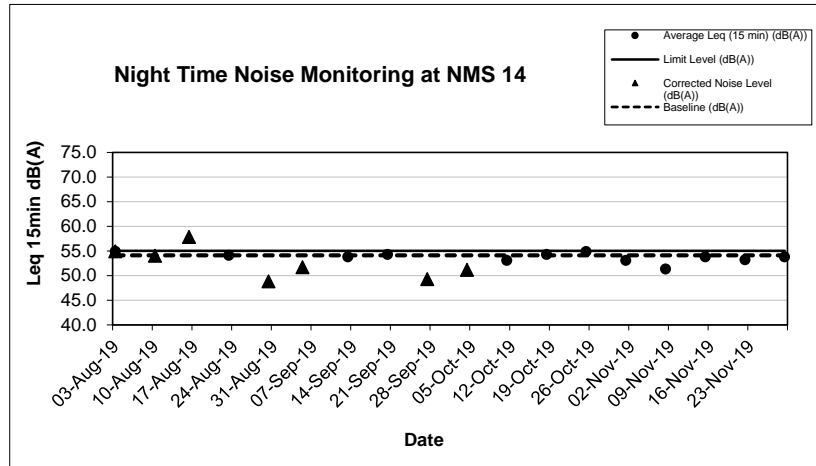
Calculated CNL = Measured Noise Level during operation – Baseline ( dB(A)).

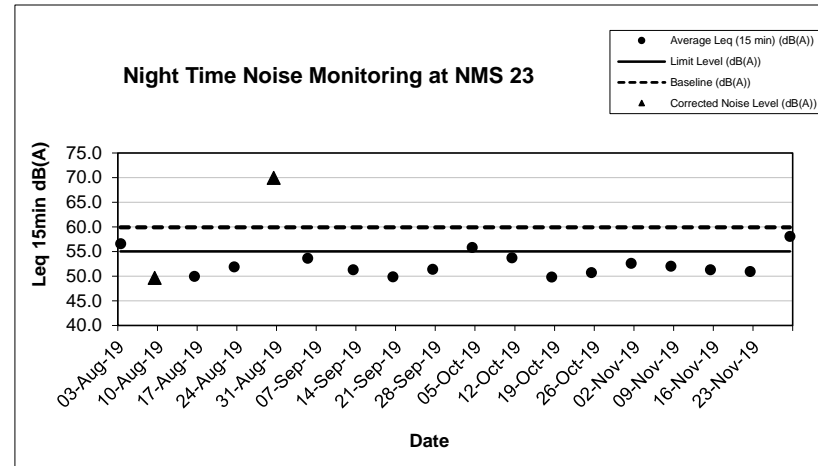
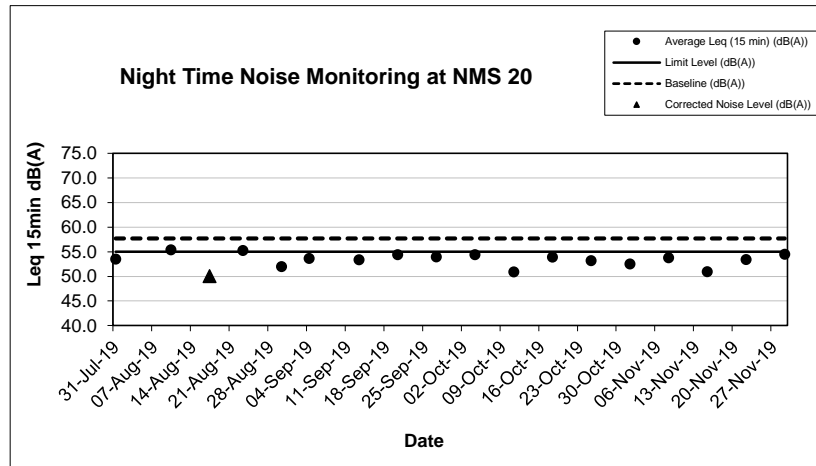
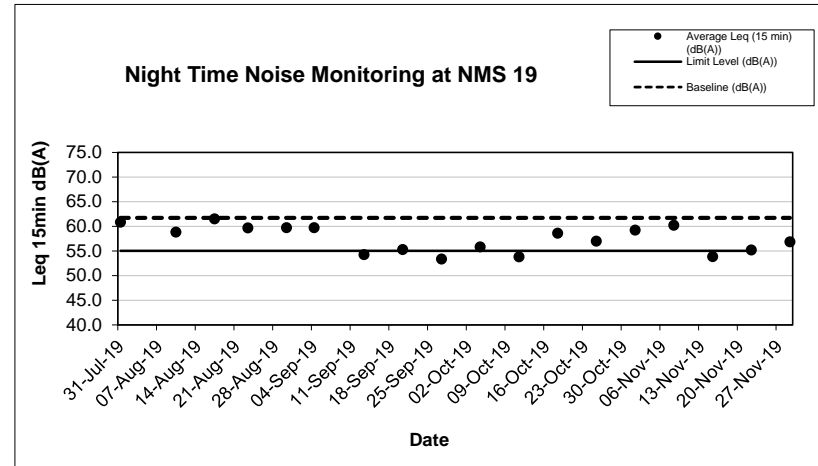
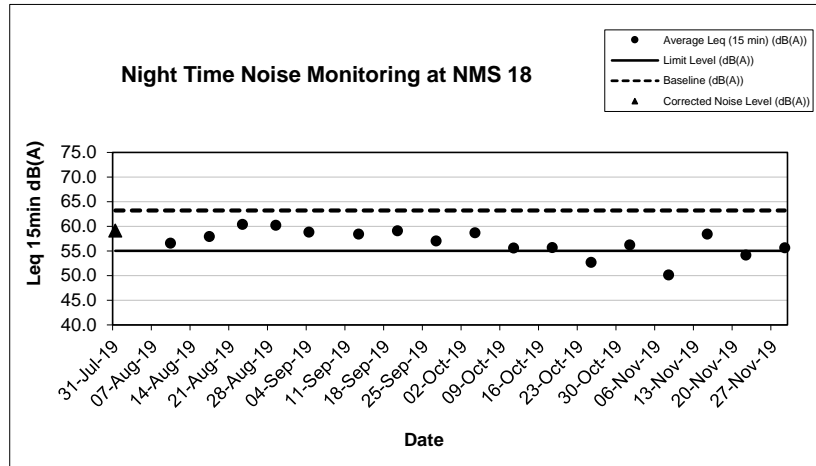


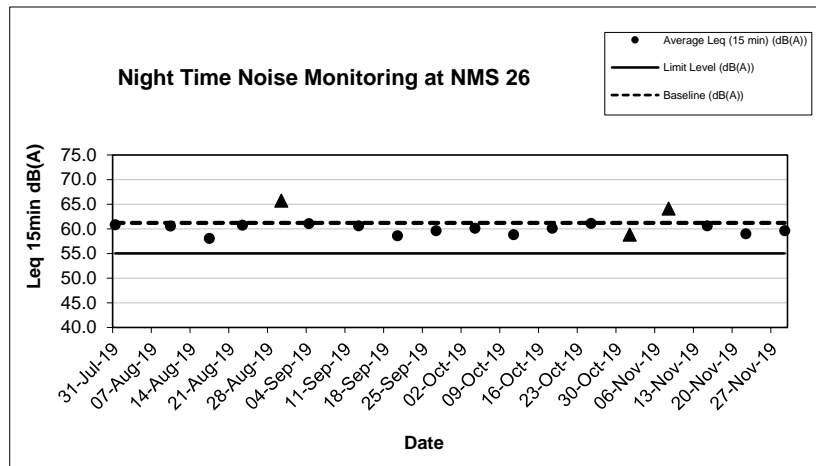
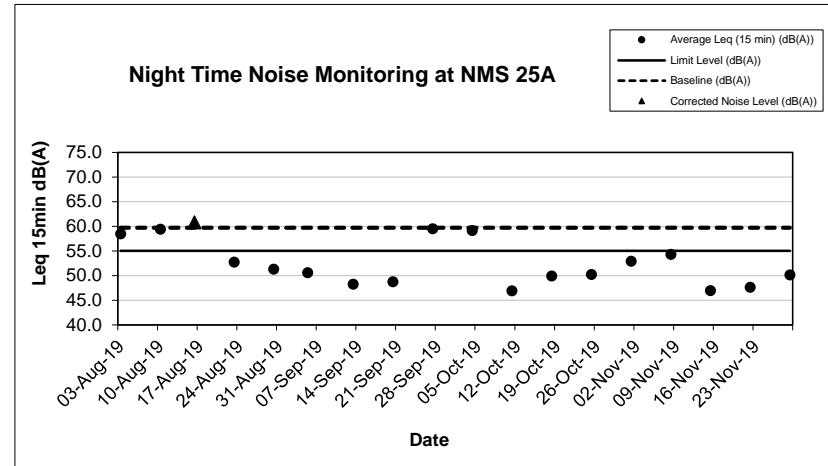
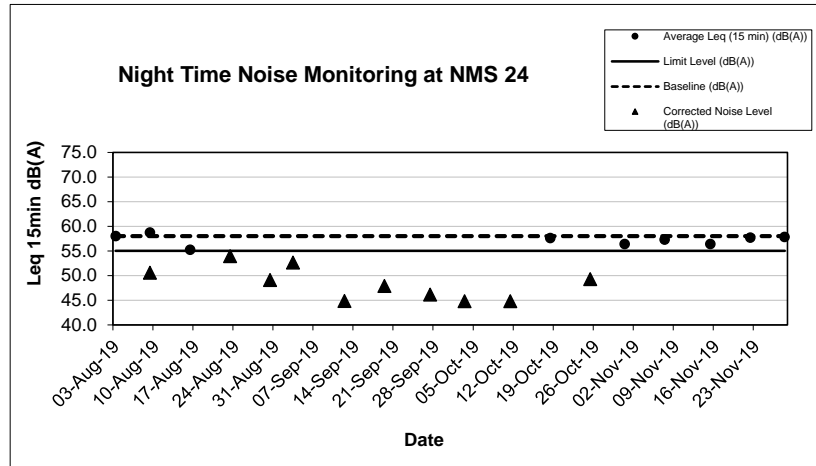












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## Appendix E

### Waste Flow Table

# FUGRO TECHNICAL SERVICES LIMITED

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Waste Flow Table for Year 2018											
Months	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated (T)	Hard Rock and Large Broken Concrete (A)	Reused in the Contract (B)	Reused in other Projects (C)	Disposed as Public Fill (D)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics <sup>2</sup>	Chemical Waste	Others, e.g. general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
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
<b>Sub-Total</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
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
<b>Total</b>	<b>0.001</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.001</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.018</b>

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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Waste Flow Table for Year 2019											
Months	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated (T)	Hard Rock and Large Broken Concrete (A)	Reused in the Contract (B)	Reused in other Projects (C)	Disposed as Public Fill (D)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics <sup>2</sup>	Chemical Waste	Others, e.g. general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
2019 Apr	0.100	0.000	0.000	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.089
2019 May	0.150	0.000	0.000	0.000	0.150	0.000	0.000	0.000	0.000	0.000	0.175
2019 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082
<b>Sub-Total</b>	<b>0.250</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.250</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.464</b>
2019 Jul	0.141	0.000	0.000	0.000	0.141	0.000	0.000	0.000	0.000	0.000	0.069
2019 Aug	0.431	0.000	0.221	0.000	0.210	0.000	0.000	0.000	0.000	0.000	0.154
2019 Sep	0.712	0.000	0.223	0.000	0.489	0.297	0.000	0.000	0.000	0.000	0.046
2019 Oct	0.663	0.000	0.306	0.000	0.357	1.085	0.001	0.027	0.009	0.000	0.027
2019 Nov	1.154	0.000	0.143	0.000	1.011	0.428	0.000	0.019	0.000	0.000	0.095
2019 Dec											
<b>Total</b>	<b>3.351</b>	<b>0.000</b>	<b>0.893</b>	<b>0.000</b>	<b>2.458</b>	<b>1.810</b>	<b>0.001</b>	<b>0.046</b>	<b>0.009</b>	<b>0.000</b>	<b>0.855</b>

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>.
- (4) (T) = (A) + (B) + (C) + (D)

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### **Appendix F**

#### **Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions**

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## Environmental Complaints Log

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 ad-hoc 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	Project-related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				operating during restricted hour. An extended barrier at the top acts as a cantilever shape 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.		
COM-2019-0010	28/3/2019	Project Hotline of NE/2017/05	Regarding nuisance noise at 03:35am.	The complaint case should be related to the MTR night time maintenance works. Main Contractor used portable phones and head-set only for communication, and none of loudspeakers were allowed to be used. Main Contractor handled of tree debris into the lorry skip in care when loading. Besides, a layer of soft material (soil/tree debris) was observed leaving inside the skip of the grab lorry to reduce the loading noise. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0132-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour.	Project-not related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
COM-2019-0033	26/7/2019	Police visit on-site	Regarding to noise nuisance	The complaint is related to the project. The Main Contractor comply with CNP No.: GW-RN0443-19 allowable construction site and within the site boundary to carry out night work on tree felling and the clearance of felled tree debris during the restricted hour. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0443-19) 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. Contractor was reminded to reschedule of tree felling arrangement that most of the fell branches and trunks were temporary laid on slope and arranged to cut smaller on Day Time to minimize the noise nuisance to the nearby NSRs.	Project-not related	Closed
COM-2019-0045	30/8/2019	1823	Regarding to noise nuisance near Hilton Plaza and Scenery Court at 11:10 pm.	The complaint is related to the project. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0443-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating	Project-related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				during restricted hour. Contractor should strictly follow the use of acoustic enclosure as in condition 3.d.5. of the CNP during the operation of breaker, hand-held, mass $\leq 10\text{kg}$ (CNP023) shall only be operated inside the acoustic enclosure composed of four side-panels and one top-panel, so that no part of such equipment is visible from any nearby noise sensitive receiver. The panels shall be made of minimum 10mm thick plywood or 1mm thick steel outer skin and minimum 50mm thick sound absorbing lining, or equivalent construction. Contractor was reminded to use portable phones and head-set only for communication, and none of loudspeakers is allowed for night work activities.		
COM-2019-0056	9/10/2019	Project Hotline of NE/2017/05 and EPD	Noise	The complaint of the construction noise especially the breaker noise is project related. Due to the concern of road safety, the Contractor conducted the emergency road repair works under an Emergency Excavation Permit (EXP) of Plan ID: EO13123 issued by Highways Department (HyD). The main contractor's PR / hotline staff was reminded to enhance communication with sufficient information provided for replying any enquiry /	Project-related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				complaint in the future. The main contractor was also reminded that noise mitigation measures should be provided as far as practicable subject to the emergency situation. For construction works covered by the CNP issued by EPD, the main contractor should fully complied with the conditions as stipulated and provided all noise mitigation measures as required under the conditions of the CNP. For works subject to the emergency situation, noise mitigation measures such as noise barrier, enclosure etc. should be provided as far as practicable to minimise the noise nuisance to the NSRs.		
COM-2019-0057	9/10/2019	EPD	Noise	The complaint of the generator noise nuisance is related to the project. The concerned portable generator is supplying electric power for the Variable Message Sign (VMS) showing the speed limit in 50 km/hr. It is switched on and off manually by manpower, and would only be operated between daytime 07:00-19:00. No construction noise permit (CNP) should be required as the portable generator is not operating in restricted hours. The main contractor was reminded to strictly follow the use of their proposed semi-enclosure	Project-related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				as the mitigation measures for the portable generator and the generator operates in daytime 07:00-19:00 only.		
COM-2019-0066	6/11/2019	EPD	Noise	The complaint of the emergency road repair work is related to the project. The works on on 5 <sup>th</sup> November 2019 between 22:00 and 06:00 the next day at southbound slow lane of Tai Po Road outside Wai Wah Centre, including breaking operation. The main contractor should inform the EPD in advance of any emergency opening works of the Project in future to facilitate the effective handling of noise complaint that may arise.	Project-related	Closed



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### Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints in the Reporting Period			Cumulative Project-to-Date
		Sep 2019	Oct 2019	Nov 2019	
Air	0	0	0	0	0
Noise	5	0	2	1	8
Water	0	0	0	0	0
Waste	0	0	0	0	0
Total	5	0	2	1	8

### Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Reporting Period			Cumulative Project-to-Date
		Sep 2019	Oct 2019	Nov 2019	
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

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### **Appendix G**

#### **Environmental Mitigation Implementation Schedule (EMIS)**

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
<b>Noise Measures</b>				
<b>3.10.2, 3.10.3, 3.10.14, 3.10.15 and Table 3.10</b>	Within the boundaries of all construction sites.	• 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
		• PME is recommended to operate in sub-grouping, and different sub-groups shall not be operated concurrently within any half hour period	Contractor	Implemented
		• The construction activities should be carried out in the daytime hours (0700 – 1900). Construction Noise Permit (CNP) for construction activities is required during evening or night time hours.	Contractor	Implemented
		• 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.	Contractor	Implemented
		• Use of well-maintained and regularly-serviced plant during the works.	Contractor	Implemented
		• Plant operating on intermittent basis should be turned off or throttled down when not in active use.	Contractor	Implemented
		• Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs.	Contractor	Implemented
		• Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works.	Contractor	Not Applicable
		• Fixed plants should be sited away from NSRs where possible.	Contractor	Not Applicable
		• Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.	Contractor	Not Applicable
<b>3.10.4, 3.10.5 and Table 3.3</b>		• 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.	Contractor	Not Applicable
		• Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes	Contractor	Not Applicable
<b>3.10.6 to 3.10.9</b>		• Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone.	Contractor	Not Applicable
		• The use of 3m high moveable barriers with skid footing and a small cantilevered upper portion should be adopted. The barrier material shall have a surface mass of not less than 14kg/m <sup>2</sup> on	Contractor	Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		skid footing with 25mm thick internal sound absorptive lining to achieve the maximum screening effect.		
		• These temporary noise barriers should be located immediately adjacent to working area.	Contractor	Not Applicable
		• 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.	Contractor	Not Applicable
		• 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.	Contractor	Not Applicable
		• For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided.	Contractor	Not Applicable
		• Barrier material of surface density of at least 14 kg/m <sup>2</sup> is recommended in order to achieve the necessary screening effect.	Contractor	Not Applicable
<b>3.10.10</b>		• Full noise enclosures should cover the PME or fixed plants such as air compressor.	Contractor	Not Applicable
		• Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works;	Contractor	Not Applicable
<b>3.10.3</b>		• Where possible fixed plants should be sited away from NSRs; and	Contractor	Not Applicable
		• Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.	Contractor	Not Applicable
<b>Air Quality Measures</b>				
<b>4.12.1 and 4.12.2</b>	Within the boundaries of all construction sites.	• 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.	Contractor	Partially Implemented
		• 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.	Contractor	Partially Implemented
		• The Contractor shall apply for a license or permit under the requirements of the relevant legislation (e.g. Air Pollution Control Ordinance and its subsidiary regulations) wherever applicable.	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <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
4.12.1		<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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	Implemented
		<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Construction working areas should be restricted to a minimum practicable size.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 Applicable
		<ul style="list-style-type: none"> <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

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• In the event of any spoil or debris from construction works being deposited on adjacent land, or streams, 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.	Contractor	Not Applicable
		• If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas.	Contractor	Implemented
		• 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.	Contractor	Implemented
		• Construction dust monitoring shall be carried out at representative monitoring locations during the construction period.	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
NA		• Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005.	Contractor	Implemented
		• Plant and equipment should be well maintained to prevent dark smoke emission.	Contractor	Implemented
		• 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.	Contractor	Implemented
<b>Water Quality Measures</b>				
5.7	Within the boundaries of all construction sites.	• 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:	Contractor	Partially Implemented
		• Construction works should be programmed so as to minimise excavation during the wet season (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	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm.		
		• 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.	Contractor	Implemented
		• 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.	Contractor	Partially 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	Partially Implemented
		• 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.	Contractor	Implemented
		• 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
		• 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.	Contractor	Implemented
		• 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.	Contractor	Not Applicable

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Section 12.6 of the Approved EIA Report		<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Not Applicable
		<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Not Applicable
		<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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 style="list-style-type: none"> <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
		<ul style="list-style-type: none"> <li>Discharges from the site shall be required to meet the terms and conditions of a valid WPCO Water Pollution Control Ordinance (WPCO).</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>Regular site inspection of the construction works shall be carried out to determine compliance with the recommended mitigation measures. Inspection should be included:                             <ol style="list-style-type: none"> <li>The functioning of onsite surface water collection channels and sediment traps.</li> </ol> </li> </ul>	Contractor	Partially Implemented



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		(ii) The functioning of interception channels at the boundary of the works areas	Contractor	Implemented
		(iii) The covering of stockpiles of fill and construction materials and the routing of any run off through the sediment traps.	Contractor	Partially Implemented
		(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	Implemented
		(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	Contractor	Not Applicable
		(viii) The operation of the roof rain water collection and drainage system.	Contractor	Not Applicable
<b><i>Landscape and Visual Mitigation Measures</i></b>				
<b>Construction Phase</b>				
Table 6.5	During construction within the Project Boundary.	• 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.	Contractor	Implemented
		• 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.	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 to minimize any adverse visual impact on adjacent VSRs.	Contractor	Not Applicable
		• 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.	Contractor	Not Applicable
		<b>Operation Phase</b>		
	During construction	• Compensatory planting shall be provided within and outside the project boundary where possible. Detailed compensatory planting proposal will be prepared in accordance with DEVB	Contractor	Not Applicable

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	within the Project Boundary.	TC (W) No. 7/2015.		
		<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Not Applicable
		<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Not Applicable
		<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Not Applicable
		<ul style="list-style-type: none"> <li>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.</li> </ul>	Contractor	Not Applicable
<b><i>Waste Management Measures</i></b>				
7.6.2 to 7.6.4	Within the boundaries of all construction sites.	<ul style="list-style-type: none"> <li>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 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.</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <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
7.6.5 to 7.6.6		<ul style="list-style-type: none"> <li>Recommendations of good site practices and waste reduction measures should be stated</li> </ul>	Contractor	Implemented

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		in order to achieve avoidance and minimization of waste generation in the hierarchy.		
		• Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste.	Contractor	Implemented
		• 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.	Contractor	Implemented
7.6.7		• 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.	Contractor	Implemented
		• The contractor's environmental performance shall be monitored and controlled through the weekly environmental walks. The items after the environmental walks shall include:		
		• A review of the EMP in particular the suitability of the environmental measures on nuisance abatement and waste management adopted by the contractor;	Contractor	Implemented
		• The environmental performance of the contractor and his sub-contractors;	Contractor	Implemented
		• The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and	Contractor	Implemented
		• The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site.	Contractor	Implemented
		• 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&D materials and non-inert C&D materials at public 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.	Contractor	Implemented
7.6.8 to 7.6.9	Within the boundaries of all construction sites as well as transportation routes to designed areas for off-site disposal of materials/Prior to and during construction activities.			
7.6.10		• 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	Contractor	Partially Implemented

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7.6.11 to 7.6.14		pollution of the surrounding environment.		
		<ul style="list-style-type: none"> <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
		<ul style="list-style-type: none"> <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	Implemented
		<ul style="list-style-type: none"> <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
		<ul style="list-style-type: none"> <li>Paving bricks arising from existing pavement should be recycled on site as much as possible.</li> </ul>	Contractor	Not Applicable
		<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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
		<ul style="list-style-type: none"> <li>Any stockpile should be sited away from existing watercourses and suitably covered to prevent wind erosion and impacts on air and water quality.</li> </ul>	Contractor	Implemented
7.6.15 to 7.6.17		<ul style="list-style-type: none"> <li>Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows. Containers used for the storage of chemical wastes should:</li> </ul>		
		<ul style="list-style-type: none"> <li>be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>have a capacity of less than 450L unless the specifications have been approved by the EPD; and</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>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).</li> </ul>	Contractor	Implemented
		<ul style="list-style-type: none"> <li>The storage area for chemical wastes should:</li> </ul>		
<ul style="list-style-type: none"> <li>be clearly labelled and used solely for the storage of chemical waste;</li> </ul>	Contractor	Implemented		

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		• be enclosed on at least 3 sides;	Contractor	Implemented
		• 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;	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	Partially Implemented
		• be arranged so that incompatible materials are adequately separated.	Contractor	Implemented
		The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other chemical wastes as defined in the Waste Disposal (Chemical Waste) (General) Regulation will require disposal by appropriate means and could require pre-notification to EPD prior to disposal. Appropriate means include disposal:		
		• via a licensed waste collector; and	Contractor	Implemented
		• 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	Contractor	Implemented
7.6.18 to 7.6.20		• to a reuser of the waste, under approval from EPD.	Contractor	Not Applicable
		• 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 odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law.	Contractor	Partially Implemented
		• Separate labelled bins should be provided if feasible.	Contractor	Not Observed
7.7.1		• 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.	Contractor	Not Observed
		• 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
EP 1.5		• 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
		<u>General Condition</u>		

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N.A	During construction within the Project Boundary.	<ul style="list-style-type: none"> <li>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 any 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).</li> </ul>	Contractor	Partially Implemented

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