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Report No.: 0064/18/ED/0361B

QUARTERLY EM&A REPORT

June 2019 - August 2019

Client:Civil Engineering and Development
Department, HKSARContract No.:NDO 03/2018Contract Name :Road Widening and Retrofitting Noise Barriers
on Tai Po Road (Sha Tin Section)Report No.:0064/18/ED/0361B

Prepared by :

Sang Wu

Reviewed by :

Cyrus Lai

Yor

Certified by :

David Hung Environmental Team Leader Fugro Technical Services Limited

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



Our ref: ASCL-2018010

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

Attention: Miss FUNG Cannifer

16 December 2019

Dear Miss Fung,

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

I refer to the email of ET regarding to the captioned Quarterly EM&A Report with report No. 0064/18/ED/0361B, 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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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 Date 20 December 2019 Our Ref. MCL/ED/0625/2019/C

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/0361B)

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/0361B) 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

mg

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 C		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.



GEN13/0717





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Report No.: 0064/18/ED/0361B

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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 3rd Quarterly EM&A Report presents the environmental monitoring and audit works for the period between 1 June 2019 and 31 August 2019. As informed by the Contractor, major activities in the reporting period included.

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Jun 2019	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access Underground utilities diversion ELS and piling construction Ground investigation works 	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access
Jul 2019	 Trial Pits Excavation Underground utilities detections Tree felling / pruning / preservation Construction of temporary road and site access Ground Investigation Works 	 Trial Pits Excavation Underground utilities detections Tree felling / pruning Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling / pruning / preservation Constructing temporary road and site access Underground utilities diversion Construction of ELS and piling platform Retaining Wall Construction 	 Trial Pits Excavation Underground utilities detections Tree felling / pruning Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling / pruning / preservation Construction of temporary road and site access
Aug 2019	 Trial Pits Excavation Underground 	 Trial Pits Excavation Underground 	 Trial Pits Excavation Underground 	 Trial Pits Excavation Underground 	 Trial Pits Excavation Underground

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utilities detections • Tree felling / pruning / preservation • Construction of temporary road and site access	utilities detections Tree felling / pruning Construction of temporary road and site access Underground utilities diversion	utilities detections Tree felling / pruning / preservation Construction of temporary road and site access Underground utilities diversion Construction of ELS and piling platform Retaining Wall Construction Central divider modification	utilities detections • Tree felling / pruning Construction of temporary road and site access	utilities detections Tree felling / pruning Construction of temporary road and site access Underground utilities diversion
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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, fourteen 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.

Complaint, Notification of Summons and Successful Prosecution

- v. Two complaint cases regarding noise nuisance were received on 26/7/2019 and 30/8/2019 respectively. After ET's investigation, the complaint case on 26/7/2019 should be related to traffic noise but not the project-related construction activities. The complaint case on 30/8/2019 was considered project-related. It was regarding noise nuisance from breaking works at road side around midnight and the major night works of the main contractor on 28th 30th August 2019 between 11:00pm and 00:30am the next day was road breaking work at zone 2 (south bound) adjacent to Wai Wah Centre. The main contractor had complied with the conditions as stipulated in the CNP No.: GW-RN0443-19; an acoustic enclosure with four sides and a top was used when operating the hand-held breaker such that no part of the powered mechanical equipment was visible by nearby noise sensitive receiver. And the main contractor was recommended to regular review the effectiveness of the enclosure or noise mitigation measure to enhance noise reduction on similar night works in restricted hours. Also, the main contractor was reminded to add their proposed night-time construction activities into their advance notice to the affected residents especially noisy works that concerned the stakeholder/resident.
- 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 3rd 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 June 2019 and 31 August 2019.

1.2 **Project Organization**

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

Party	Position	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		

Table 1.1Contact Information of Key Personnel

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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:

	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
Jun 2019	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access Underground utilities diversion ELS and piling construction Ground investigation works 	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling Construction of temporary road and site access
Jul 2019	 Trial Pits Excavation Underground utilities detections Tree felling / pruning / preservation Construction of temporary road and site access Ground Investigation Works 	 Trial Pits Excavation Underground utilities detections Tree felling / pruning Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling / pruning / preservation Constructing temporary road and site access Underground utilities diversion Construction of ELS and piling platform Retaining Wall Construction 	 Trial Pits Excavation Underground utilities detections Tree felling / pruning Construction of temporary road and site access 	 Trial Pits Excavation Underground utilities detections Tree felling / pruning / preservation Construction of temporary road and site access
Aug 2019	 Trial Pits Excavation Underground 	 Trial Pits Excavation Underground 	 Trial Pits Excavation Undergroun 	 Trial Pits Excavation Underground 	 Trial Pits Excavation Underground

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utilities detections • Tree felling / pruning / preservation • Construction of temporary road and site access	utilities detections Tree felling / pruning Construction of temporary road and site access Underground utilities diversion	 d utilities detections Tree felling / pruning / preservation Construction of temporary road and site access Undergroun d utilities diversion Construction of ELS and piling platform Retaining Wall Construction Central divider modification 	utilities detections • Tree felling / pruning Construction of temporary road and site access	utilities detections Tree felling / pruning Construction of temporary road and site access Underground utilities diversion
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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**.

Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit for whole project	EP-463/2013/B	20/12/2016	Nil
Receipt of the notification of construction dust production	Form NA	27/7/2018	Nil
Construction Waste Disposal Account	7031619	17/8/2018	Nil
Chemical Waste Producer Registration	5318-758-C4314-01	6/11/2018	Nil
Effluent Discharge License (Zone 1 – Zone 5)	WT00032446-2018	9/11/2018	30/11/2023
Construction Noise Permit	GW-RN0246-19	1/5/2019	30/6/2019
for Road Closure works at	GW-RN0443-19	1/7/2019	30/9/2019
restricted hours	GW-RN0612-19	30/8/2019	31/10/2019



2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS

2.1 Monitoring Requirement

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

2.2 Monitoring Locations

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

Table 2.1	Location of	Air Quality Monitoring	
Reporting Period	Monitoring Station	Location	Land uses
	AMS 4A	Wai Wah Centre	Residential
June	AMS 7A	Sheung Wo Che	Residential
2019	AMS 8	Lek Yuen Estate	Residential
	AMS 13	Fung Wo Estate	Residential
	AMS 4A	Wai Wah Centre	Residential
July	AMS 7A	Sheung Wo Che	Residential
2019	AMS 8	Lek Yuen Estate	Residential
	AMS 15	Ha Wo Che	Residential
	AMS 4A	Wai Wah Centre	Residential
August	AMS 6	Shatin Plaza	Residential
2019	AMS 7A	Sheung Wo Che	Residential
	AMS 15	Ha Wo Che	Residential

Table 2.1 Location of Air Quality Monitoring

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

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Monitoring Station	Location	Land Uses	Type of Measurement
NMS1	Scenery Court	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-l College	School	Façade

Table 2.2 Location of Noise Monitoring Station

2.3 Results and Observations

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

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Monitoring	24-hr TSP (µg/m³) in Reporting Period Averag		Average	Action	Limit Level		
Station	May 2019	June 2019	July 2019	August 2019	(µg/m³)	Level (µg/ m³)	(µg/ m³)
AMS 4A	-	37 - 85	56 - 77	51 - 104	70	200	
AMS 6	11 - 37	-	-	50 - 83	45	165	
AMS 7A	26 - 83	23 - 117	44 - 68	62 - 90	63	171	
AMS 8	-	24 - 108	43 - 81	-	66	161	260
AMS 12	30 - 85	-	-	-	56	168	
AMS 13	-	36 - 89	-	-	60	174	
AMS 15	8 - 40	-	52 - 74	53 - 77	52	172	

Table 2.3 Summary of 24-hr TSP Monitoring Results

Table 2.4Summary of 1-hr TSP Monitoring Results

Monitoring			P (μg/m³) ing Period		Average	Action Level	Limit Level
Station	May 2019	June 2019	July 2019	August 2019	(µg/m³)	(µg/ m ³)	(µg/ m³)
AMS 4A	-	33 - 109	57 - 96	51 - 102	78	348	
AMS 6	46 - 82	-	-	49 - 104	76	347	
AMS 7A	24 - 114	21 - 141	41 - 93	63 - 101	71	344	
AMS 8	-	23 - 149	44 - 100	-	74	366	500
AMS 12	32 - 92	-	-	-	57	296	
AMS 13	-	35 - 106	-	-	65	303	
AMS 15	39 - 86	-	57 - 88	54 - 92	73	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 Da	y Time Noise Imp	act Monitoring Results
		,	

	Leq (30min) Range ,dB(A) Leq (30min)					
Monitoring		Leq _(30min) Limit				
Station	May 2019	June 2019	July 2019	August 2019	Level, dB(A)	
NMS1	66.4 – 70.6	60.9 - 69.5	63.1 – 67.2	61.8 – 66.7	75	
NMS2	59.0 – 61.6	54.6 – 72.0	58.6 – 61.5	56.4 – 61.8	75	
NMS3	71.2 – 72.3	60.3 – 71.6	68.6 – 70.1	58.3 – 69.1	75	
NMS4	72.1 – 73.1	64.1 – 71.6	67.2 – 71.6	63.1 – 70.9	75	
NMS5A	70.9 – 74.1	68.9 – 73.8	71.8 – 73.6	66.7 – 72.2	75	
NMS6A	73.2 – 74.2	69.4 – 72.1	72.1 – 73.8	67.2 – 72.7	75	
NMS7	73.0 – 74.7	63.3 – 74.1	72.6 – 74.7	64.6 – 74.1	75	
NMS8	66.2 – 72.1	65.9 – 71.1	66.4 – 72.0	63.8 - 68.6	75	
NMS9	65.0 – 70.6	64.4 – 70.7	65.1 – 69.6	66.1 – 67.6	75	
NMS10A	63.1 – 65.8	62.7 – 65.9	62.1 – 66.3	62.4 – 65.6	70*	
NMS11	60.8 – 66.5	60.4 – 70.1	61.1 – 67.6	60.0 - 68.8	75	
NMS12	59.5 – 64.6	58.5 – 63.9	64.2 - 64.8	62.0 – 66.1	70*	
NMS13	55.4 – 71.0	55.8 – 68.6	61.9 – 69.1	60.5 – 68.0	75	

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NMS14	60.7 – 68.2	66.6 – 68.3	62.7 – 67.1	57.4 – 66.1	75
NMS15	64.9 – 69.2	63.8 – 71.5	66.1 – 68.1	63.2 – 68.2	75
NMS16	66.8 – 68.7	62.4 – 70.0	65.8 – 67.5	62.8 - 66.8	75
NMS17	60.3 - 64.6	62.2 – 66.5	62.5 – 66.7	60.2 – 68.1	70*
NMS18	65.8 – 67.6	60.7 – 72.5	64.9 – 66.1	60.5 - 66.0	75
NMS19	66.3 – 68.6	66.2 – 70.6	61.8 – 68.4	66.8 – 69.5	75
NMS20	60.6 – 70.7	63.4 – 68.1	63.1 – 68.2	59.4 – 67.1	75
NMS23	67.5 – 71.0	61.7 – 69.5	66.1 – 70.7	61.3 – 70.1	75
NMS24	63.7 – 72.1	64.2 – 72.1	62.5 – 72.1	61.4 – 69.1	75
NMS25A	69.2 – 71.2	66.7 – 72.6	67.7 – 72.6	66.1 – 72.1	75
NMS26	68.2 – 74.5	72.9 – 74.1	66.2 – 74.5	68.8 – 73.7	75
NMS27	62.1 – 64.7	62.6 - 66.0	64.1 – 64.7	61.9 – 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, fourteen 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** and **2.7**.

	Summary of Hight Time Noise impact monitoring Results (1900 –						
Monitoring	Leq Range ,	dB(A) in Repo	Reporting Period ¹ Baseline Leq				
Station	May 2019	June 2019	July 2019	Level, dB(A)	Limit Level, dB(A)		
NMS 1	-	-	60.7 - 63.4	64.4	55		
NMS 4	-	-	63.2 - 66.0	66.4	55		
NMS 7	-	-	60.5 - 64.6	63.2	55		
NMS 8	-	-	61.1 – 64.7	67.5	55		
NMS 9	-	-	60.6 - 66.9	63.3	55		
NMS 13	65.3 – 68.6	-	-	59.8	55		
NMS 14	-	-	58.7 – 61.7	57.8	55		
NMS 15	59.4 - 64.2	-	-	62.0	55		
NMS 16	-	50.5 - 55.0	-	63.3	55		
NMS 18	60.7 - 64.4	56.3 – 65.6	62.1 – 65.9	64.2	55		
NMS 19	-	-	65.7 – 70.0	65.3	55		
NMS 20	-	-	56.5 – 66.5	59.2	55		
NMS 25A	-	-	61.5 – 67.1	62.6	55		
NMS 26	59.1 – 63.6	60.1 – 65.9	66.1 – 70.6	64.7	55		

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

Note: 1. Leq (5min) was measured at night-time (1900-2300) in May, June and July 2019.

Table 2.7 Summary of Night Time Noise Impact Monitoring Results (2	(2300 – 0700)
--	---------------

Monitoring	Leq Ra	ange ,dB(A) iı	Baseline	Leq		
Station	May ¹ 2019	June ¹ 2019	July ¹ 2019	August ² 2019	Level, dB(A)	Limit Level, dB(A)
NMS 1	-	-	52.6 - 66.6	57.9 - 60.2	61.4	55
NMS 2	-	-	-	48.4 - 54.7	49.7	55
NMS 3	-	-	-	62.2 - 65.7	70.9	55

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NMS 4	-	-	61.9 – 63.5	51.2 - 58.3	62.6	55
NMS 5A	-	-	-	61.8 - 67.6	67.9	55
NMS 6A	-	-	-	64.4 - 69.0	71.5	55
NMS 7	-	-	54.2 - 65.7	52.3 - 58.9	59.0	55
NMS 8	-	-	57.7 – 61.2	57.3 - 61.8	64.4	55
NMS 9	-	-	55.2 – 66.1	55.3 - 57.6	53.5	55
NMS 11	-	-	-	49.1 - 56.1	53.2	55
NMS 13	60.5 - 66.0	-	-	53.6 - 58.8	57.3	55
NMS 14	-	-	51.9 – 59.9	54.9 - 59.4	54.1	55
NMS 15	53.1 – 61.4	-	-	56.2 - 59.7	58.8	55
NMS 16	-	45.2 – 46.9	-	56.2 - 58.3	60.1	55
NMS 18	59.1 – 62.4	51.2 – 54.9	59.1 – 75.6	56.6 - 60.4	63.2	55
NMS 19	-	-	58.9 - 70.1	58.8 - 61.5	61.7	55
NMS 20	-	-	51.9 – 66.3	52.0 - 58.4	57.7	55
NMS 23	-	-	-	50.0 - 70.3	59.9	55
NMS 24	-	-	-	55.2 - 59.4	58.0	55
NMS 25A	-	-	59.5 – 61.8	51.3 - 63.6	59.7	55
NMS 26	54.5 - 61.4	57.1 – 61.7	60.5 - 76.9	58.0 - 67.4	61.2	55

Note: 1. Leq (5min) was measured at night-time (2300-0700) in May, June and July 2019.

2. Leq (15min) was measured at night-time (2300-0700) in August 2019.

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

Calculated CNL = Measured Noise Level during operation - Baseline

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



3. LANDSCAPE AND VISUAL

3.1 Results and Observations

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



4. WASTE MANAGEMENT

4.1 Results and Observations

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



5. SITE INSPECTION

5.1 Site Inspection

- 5.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix 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**.

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	25 July 2019	Observation: 1. Excavated materials should be covered with impervious sheeting (Zone 2)	1. Excavated materials were covered by impervious sheeting (Zone 2) on 29/7/2019.
	22 August 2019	Reminder:1. Keep the ground surface wet by spraying water frequently in Zone 4 (N04).	NA
Noise	N	o deficiency was found during the repo	orting quarter.
	6 June 2019	Reminder: 1. Frequently clear the leaves at the trench exit at S05 access.	NA
Water Quality	13 June 2019	 Observation: Replace the damaged sandbags in Zone 3 (S06). Clear leaves at the trench exit in Zone 3 (S05 & S06). Clear sand and silt in U Channel in Zone 3 (S05). Reminder: Enhance bunding near S06. 	 Damaged sandbags were replaced on 14/6/2019. Leaves at the trench exit were removed on 17/6/2019. Sediment was cleared on 16/6/2019.
	20 June 2019	Observation: 1. Relocate the sandbags to prevent surface run-off from flowing outside the site boundary in Zone 3.	 Sandbags were relocated to prevent surface run off outside site boundary on 24/6/2019.
	4 July 2019	Observation: 1. Cover the pit by impervious sheeting in Zone 2.	 The pit was covered by impervious sheeting on 6/7/2019.

 Table 5.1
 Observations and Recommendations of Site Audit

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Parameters	Date	Observations and Recommendations	Follow-up
	11 July 2019	Reminder: 1. Enhance the efficiency of sedimentation tank in S06.	NA
	25 July 2019	Observation: 1. Excavated materials should be covered with impervious sheeting (Zone 2)	 Excavated materials were covered by impervious sheeting (Zone 2) on 9/7/2019.
	31 July 2019	Observation: 1. S06 sedimentation tank should be maintained in a functionable condition.	1. (Zone 3) Sedimentation tank at S06 should be maintained in a functional condition on 3/8/2019.
	8 August 2019	 Reminder: 1. Enhance the bunding at Zone 5 exit (North Bound). 2. Remove the tree branches at Zone 5 (North Bound). 	NA
	15 August 2019	Observation: 1. Replace the damaged sandbags near S06 exit.	 The broken sandbags were removed on 16/8/2019.
	28 August 2019	Observation: 1. Increase the efficiency of sedimentation of the S05 sedimentation tank.	1. The sedimentation tank at the exit 05 is maintained well on 29/8/2019.
		Reminder:1. Prevent the surface run-off from flowing into the storm drain (Zone 2).	NA
	20 June 2019	Observation: 1. Waste materials accumulated at the site exit should be sorted and cleared in Zone 3.	 Wastes were removed on 21/6/2019.
Chemical and	26 June 2019	 Reminder: 1. Centralize the waste collection zones to a particular area in Zone 3 as far as possible. 	NA
Waste Management	11 July 2019	Observation: 1. Place the chemicals in the drip tray (Zone 3).	1. All Chemicals were removed on 15/7/2019.
	18 July 2019	 Observation: 1. Drip tray should be provided for the chemical (S05). Reminder: 1. Remove the tree branches stored in Zone 3 (near S06). 	 Drip trap was provided (Zone 3) on 23/7/2019.

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Parameters	Date	Observations and Recommendations	Follow-up	
	31 July 2019	 Observation: Clear other site materials in front of the chemical waste storage area. Diesel in Zone 2 (near gate) should be placed in dangerous goods storage area. 	 (Zone 3) Clear the site materials in front of the chemical waste storage area. On 3/8/2019. (Zone 2) Diesel was removed on 31/7/2019. 	
	22 August 2019	Reminder: 1. Clear the waste materials in Zone 3 (RW 07).	NA	
	28 August 2019	Reminder: 1. Waste Materials should be packed properly (Zone 2).	NA	
Land Contamination	N	No deficiency was found during the reporting quarter.		
Landscape and Visual Impact	31 July 2019	Reminder: 1. Provide sufficient protection space for the OVTs in Zone 3.	NA	
General Condition	No deficiency was found during the reporting quarter.			



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 noise was recorded in the reporting period at all monitoring stations. Number of exceedance in the reporting period was summarized in **Table 6.1** and **6.2**.

Monitoring Station		Number of exceedance in the reporting period							
		24-hour TSP			1-hour TSP				
		June 2019	July 2019	August 2019	Total	June 2019	July 2019	August 2019	Total
AMS 4A	AL	-	0	0	0	-	0	0	0
AIVIS 4A	LL	-	0	0	0	-	0	0	0
AMS 6	AL	0	-	-	0	0	-	-	0
AIVIS 0	LL	0	-	-	0	0	-	-	0
AMS 7A	AL	0	0	0	0	0	0	0	0
AIVIS / A	LL	0	0	0	0	0	0	0	0
AMS 8	AL	-	0	0	0	-	0	0	0
AIVIS 0	LL	-	0	0	0	-	0	0	0
AMS 12	AL	0	-	-	0	0	-	-	0
AIVIS 12	LL	0	-	-	0	0	-	-	0
AMS 13	AL	-	-	-	0	-	-	-	0
	LL	-	-	-	0	-	-	-	0
AMS 15	AL	0	0	0	0	0	0	0	0
AIVIS 15	LL	0	0	0	0	0	0	0	0
Total	AL	0	0	0	0	0	0	0	0
TULAI	LL	0	0	0	0	0	0	0	0

Table 6.1 Summary of Exceedance of Dust Monitoring in Reporting Period

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		Number	n the reporting peri	iod	
Monitoring Station		Le	q (30min)&(15min) dB	(A)	Total
		June 2019	July 2019	August 2019	Total
	AL	0	0	0	0
NMS 1	LL	0	0	0	0
	AL	0	0	0	0
NMS 2	LL	0	0	0	0
NMS 3	AL	0	0	0	0
INIVIS S	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
111107	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 10	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
	LL	0	0	0	0
NMS 16	AL	0	0	0	0
	LL	0	0	0	0
NMS 17	AL	0	0	0	0
	LL	0	0	0	0
NMS 18	AL	0	0	0	0
		0	0	0	0
NMS 19	AL	0	0	0	0
		0	0	0	0
NMS 20	AL LL	0	0	0	0
		0	0	0	0
NMS 23	AL	0	0	0	0
		0	0	0	0
NMS 24	AL LL	0	0	0	0
	AL	0	0	0	0
NMS 25A		-	0	0	0
		0	-	-	
NMS 26	AL LL	0	0	0	0
	AL	0	0	0	0
NMS 27		0	0	0	0
	AL	0	0	0	0
Total		0	0	0	0

Table 6.2 Summary of Exceedance of Noise Monitoring in Reporting Period

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6.2 Complaints, Notification of Summons and Prosecution

- 6.2.1 Two complaint cases regarding noise nuisance were received on 26/7/2019 and 30/8/2019 respectively. After ET's investigation, the complaint case on 26/7/2019 should be related to traffic noise but not the project-related construction activities. The complaint case on 30/8/2019 is still under ET's investigation.
- 6.2.2 No notification of summons or prosecution was received in the reporting period.
- 6.2.3 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix F**.



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**.

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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, fourteen 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.
- 8.1.3 Two complaint cases regarding noise nuisance were received on 26/7/2019 and 30/8/2019 respectively. After ET's investigation, the complaint case on 26/7/2019 should be related to traffic noise but not the project-related construction activities. The complaint case on 30/8/2019 was considered project-related. It was regarding noise nuisance from breaking works at road side around midnight and the major night works of the main contractor on 28th -30th August 2019 between 11:00pm and 00:30am the next day was road breaking work at zone 2 (south bound) adjacent to Wai Wah Centre. The main contractor had complied with the conditions as stipulated in the CNP No.: GW-RN0443-19; an acoustic enclosure with four sides and a top was used when operating the hand-held breaker such that no part of the powered mechanical equipment was visible by nearby noise sensitive receiver. And the main contractor was recommended to regular review the effectiveness of the enclosure or noise mitigation measure to enhance noise reduction on similar night works in restricted hours. Also, the main contractor was reminded to add their proposed night-time construction activities into their advance notice to the affected residents especially noisy works that concerned the stakeholder/resident.
- 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

• Keep the ground surface wet by spraying water frequently in Zone 4 (N04).

Construction Noise Impact

• No specific observation was identified in the reporting period.



Water Quality Impact

- Frequently clear the leaves at the trench exit at S05 access.
- Enhance bunding near S06.
- Enhance the efficiency of the sedimentation tank in S06.
- Enhance the bunding at Zone 5 exit (North Bound).
- Prevent the surface run-off from flowing into the storm drain (Zone 2).

Chemical and Waste Management

- Centralize the waste collection zones to a particular area in Zone 3 as far as possible.
- Remove the tree branches stored in Zone 3(near S06).
- Remove the tree branches at Zone 5(North Bound).
- Clear the waste materials in Zone 3 (RW07).
- 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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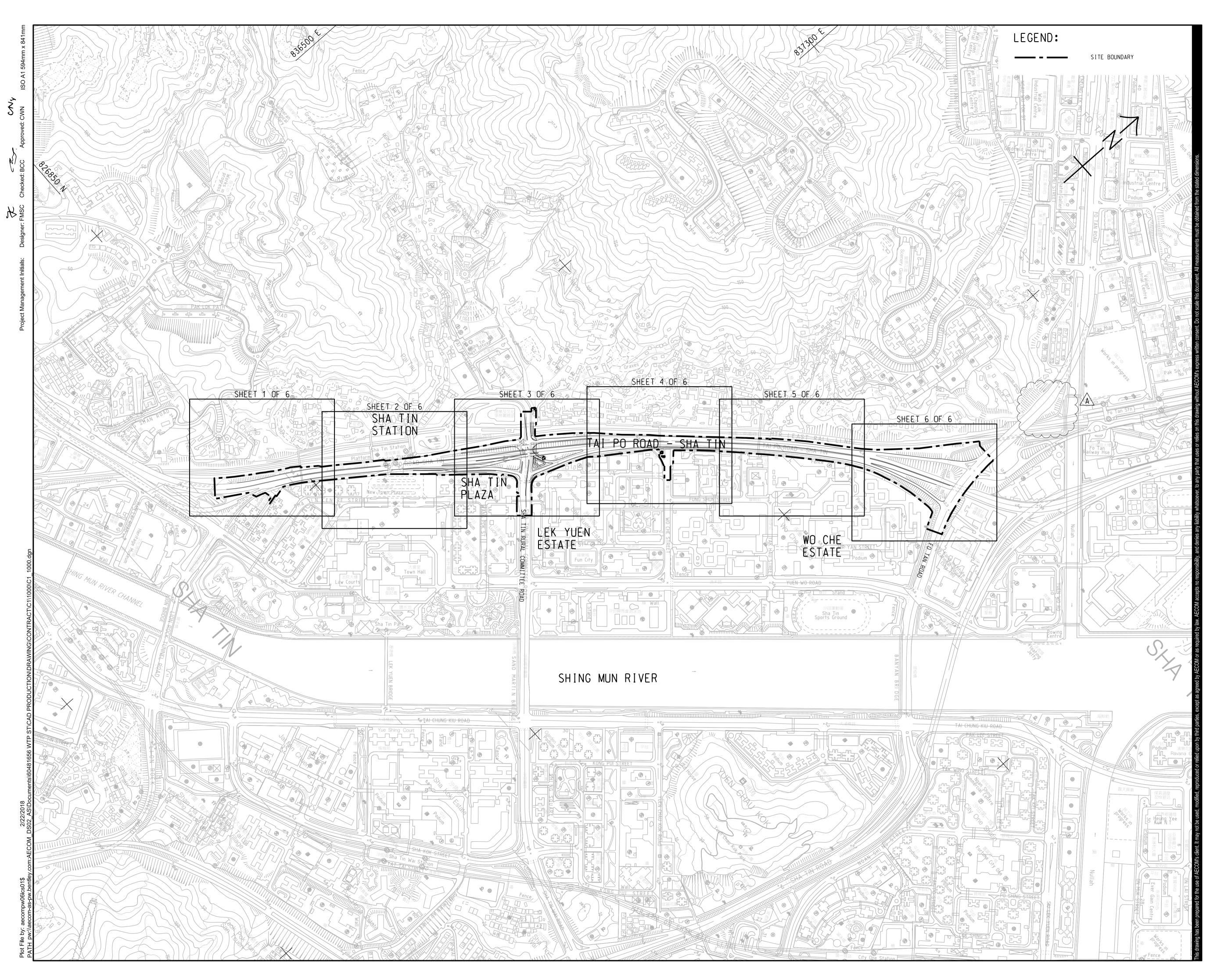
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Figure 1

Project General Layout

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

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KEY PLAN 索引圖	FIGURE 1.1a

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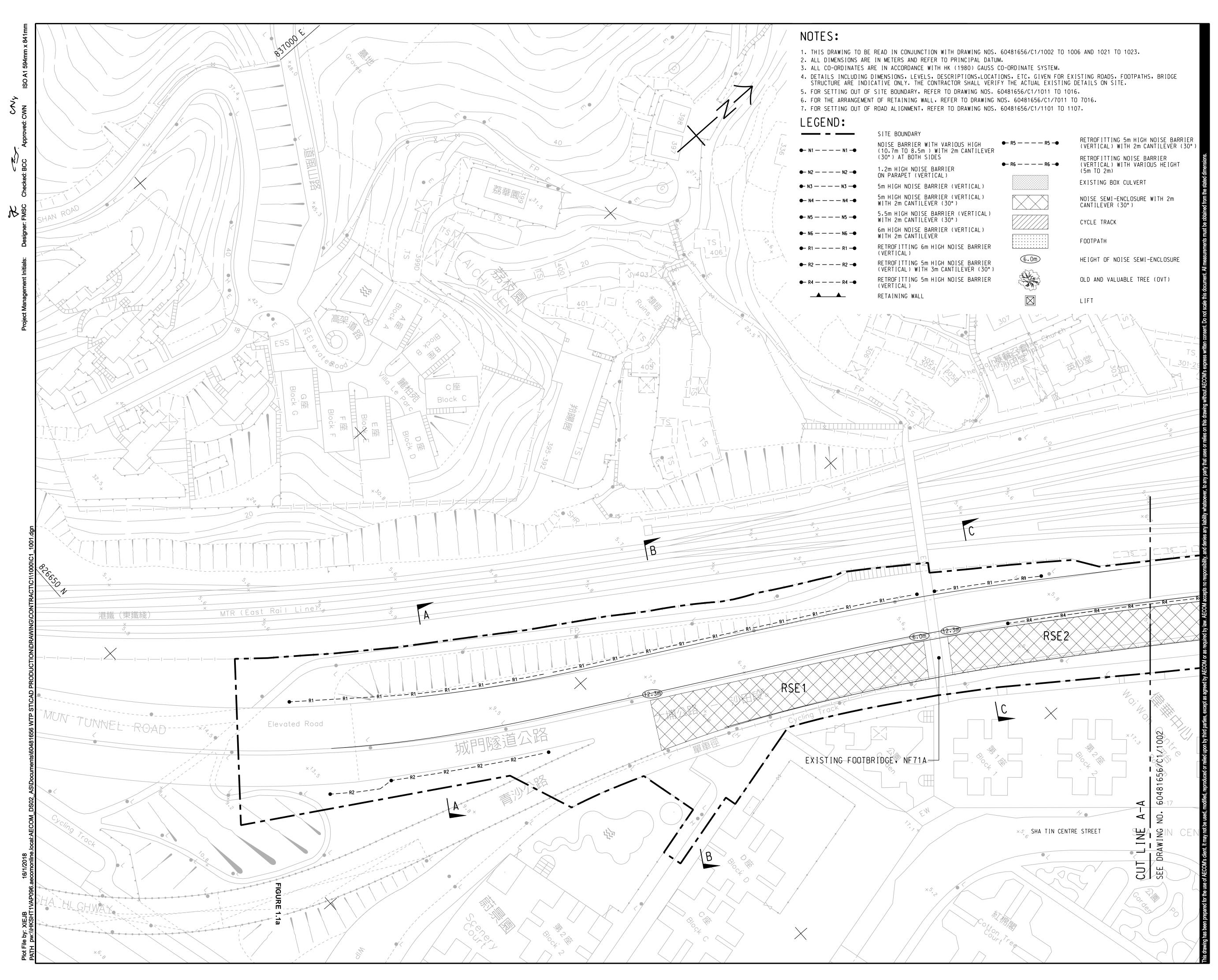
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SHEET TITLE ^{圖紙名稱}

KEY PLAN FIGURE 1.1a

SHEET NUMBER 圖紙編號

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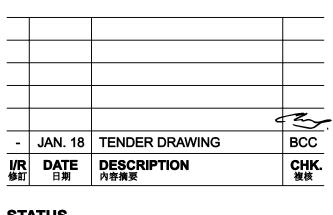
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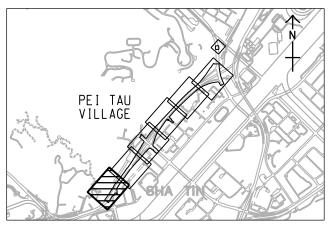
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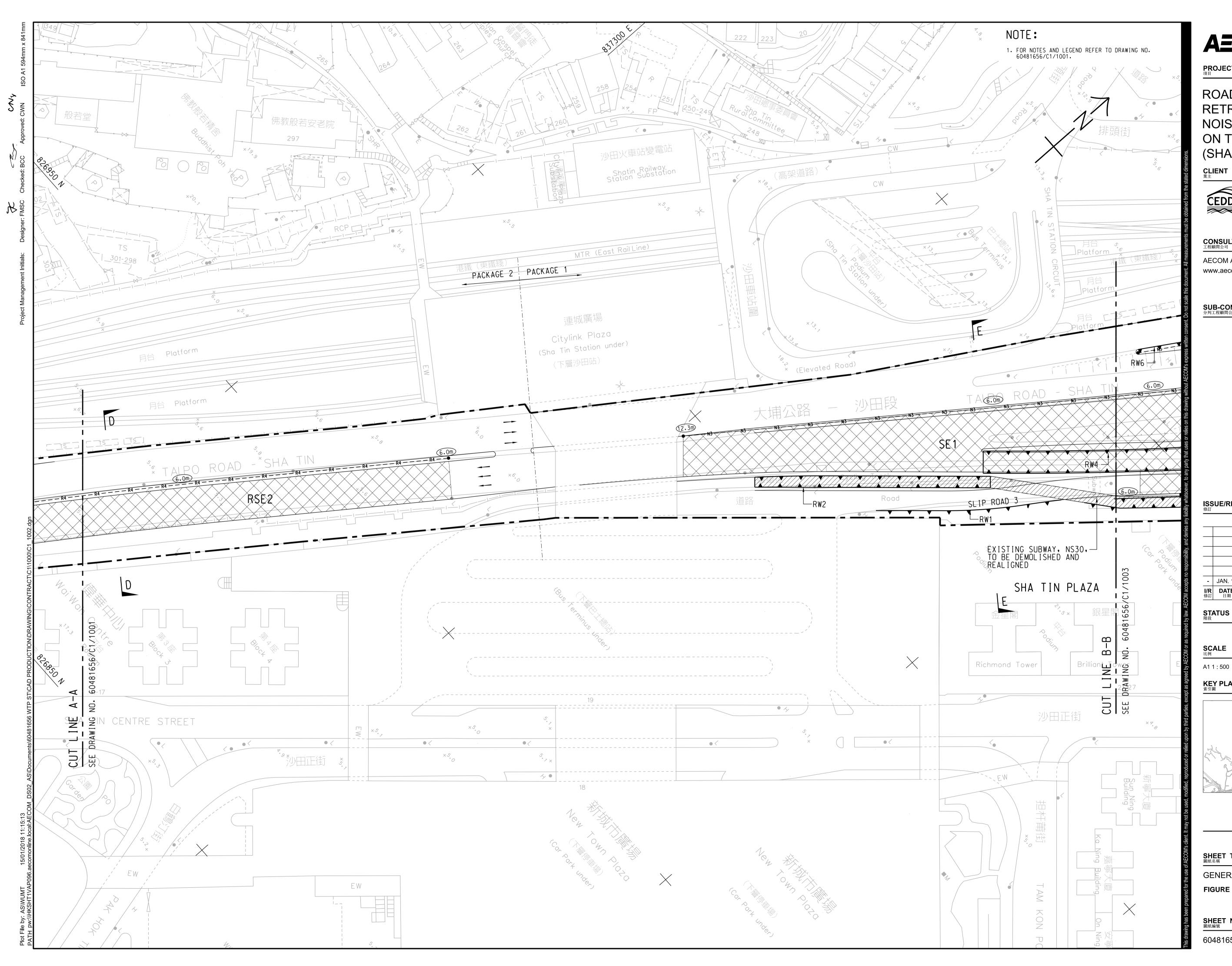
GENERAL LAYOUT PLAN FIGURE 1.1 b

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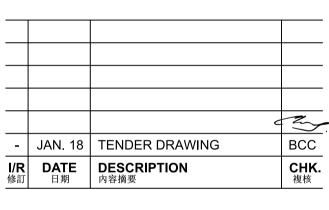
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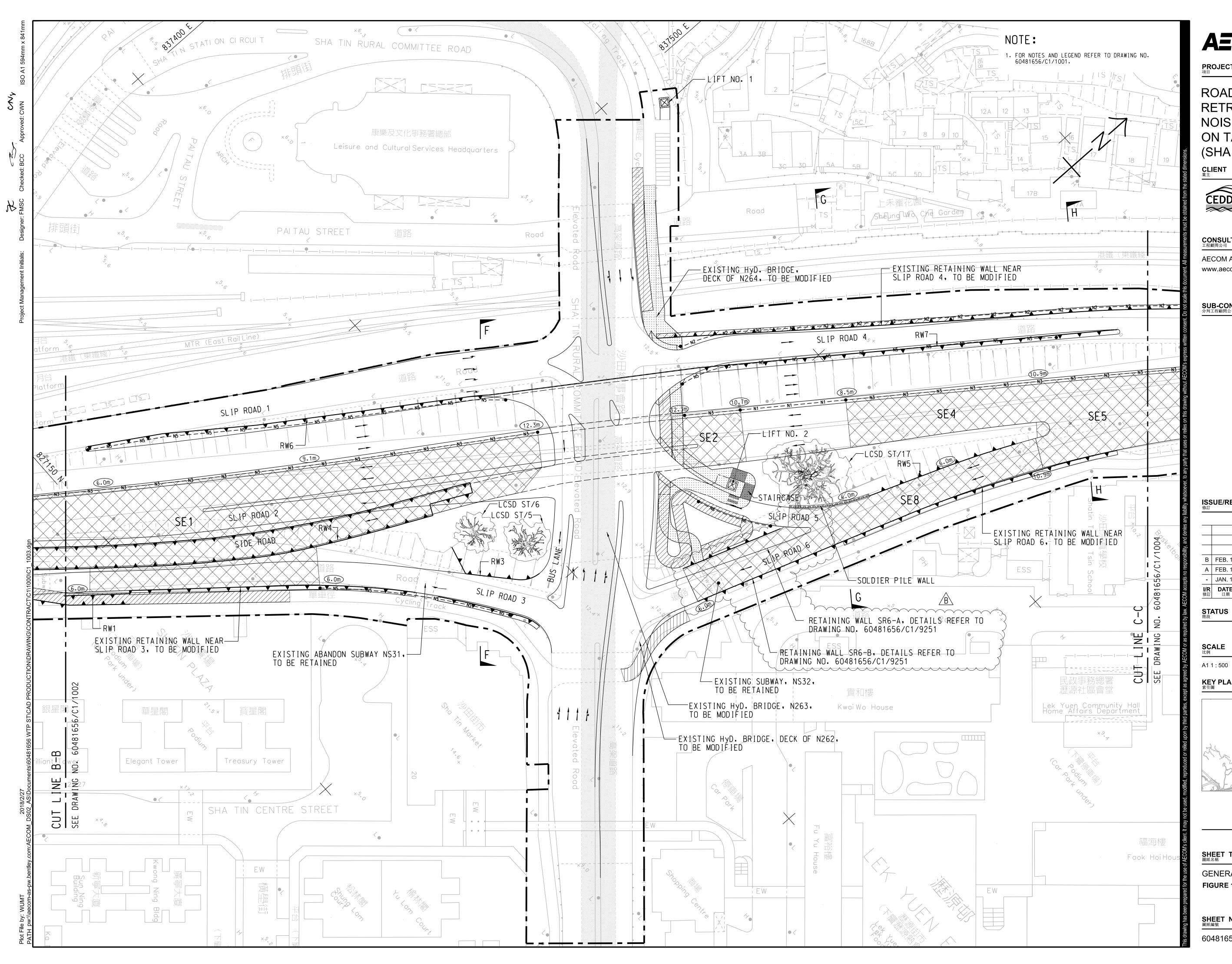
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GENERAL LAYOUT PLAN FIGURE 1.1b

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PROJECT

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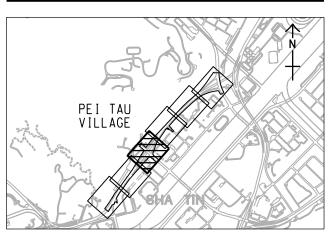
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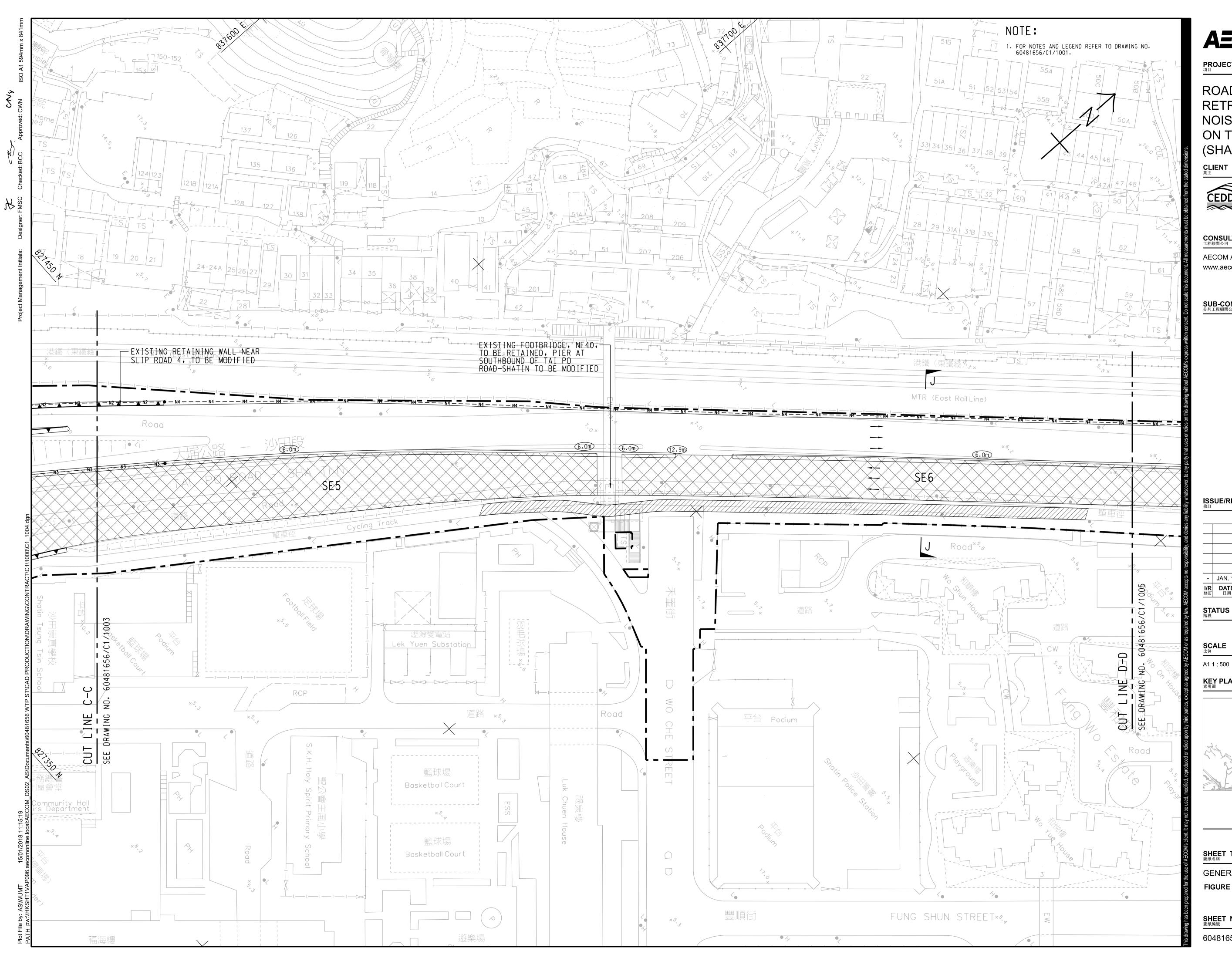
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GENERAL LAYOUT PLAN FIGURE 1.1 b

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

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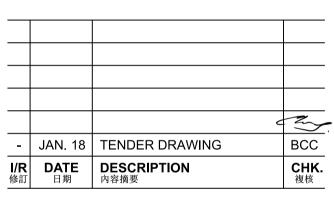
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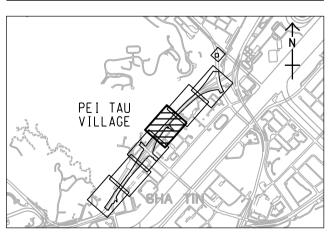
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SCALE 比例

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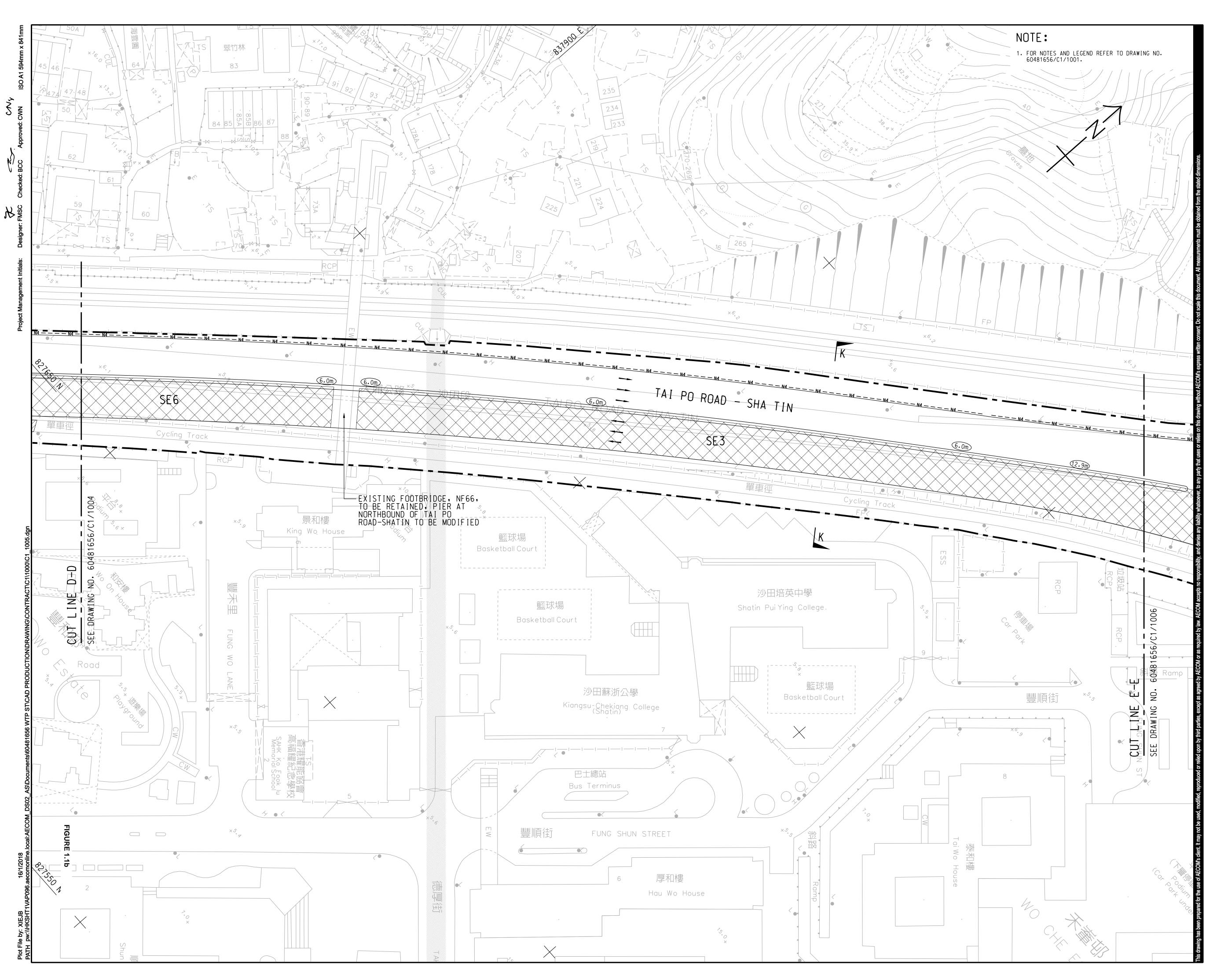
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GENERAL LAYOUT PLAN FIGURE 1.1b

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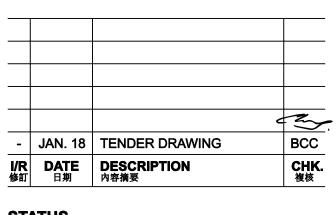
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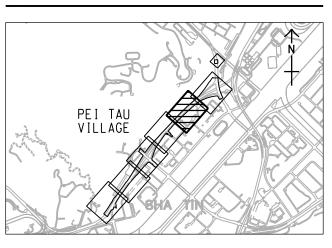
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CONTRACT NO. ^{合約編號}

NE/2017/05

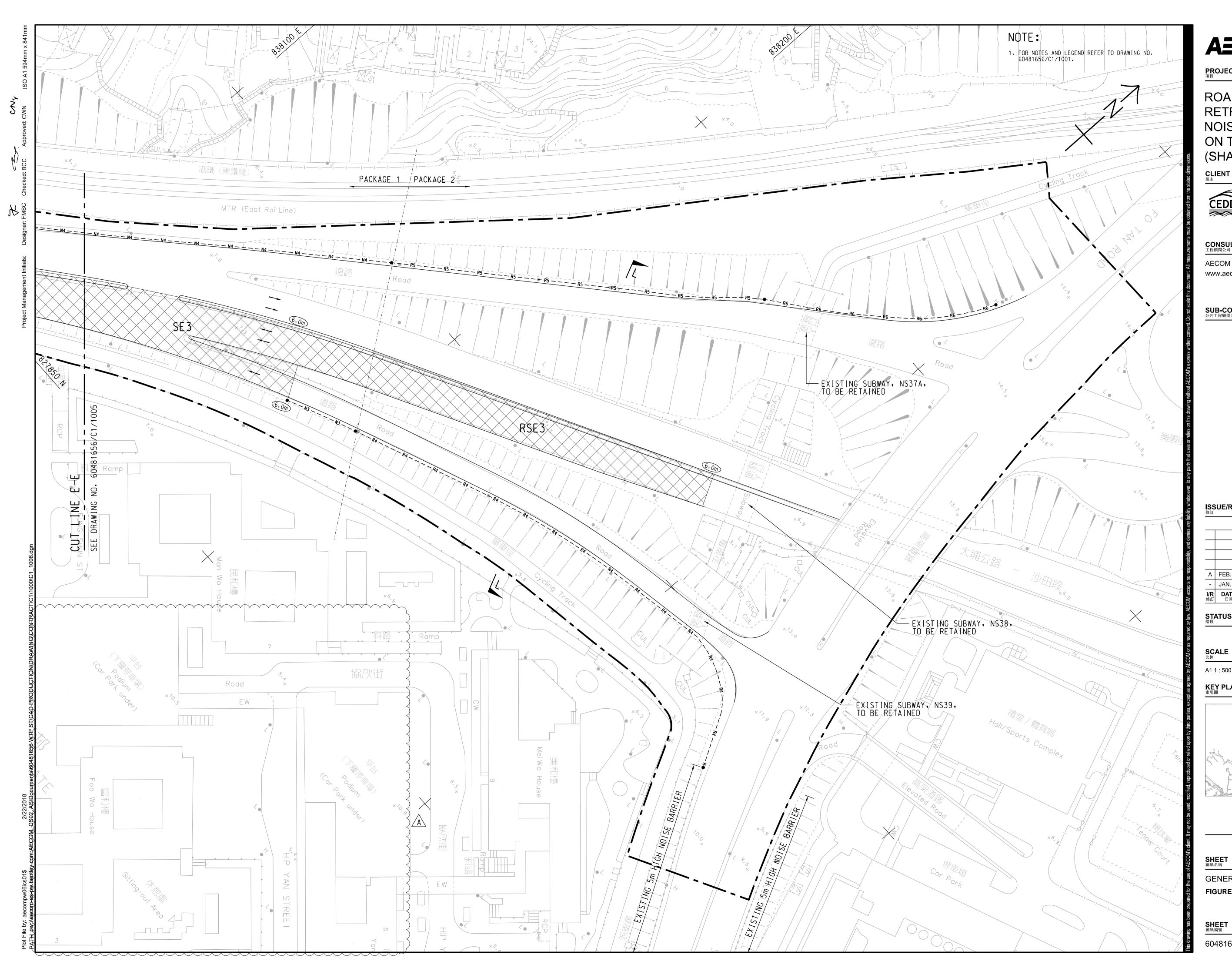
SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

SHEET NUMBER 圖紙編號

60481656/C1/1005

SHEET 5 OF 6





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

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION

		c	2
А	FEB. 18	TENDER ADDENDUM NO.2	BCC
I	JAN. 18	TENDER DRAWING	BCC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
		-	

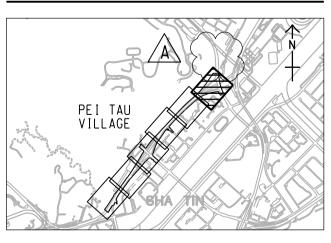
STATUS 階段

DIMENSION UNIT ^{尺寸單位}

A1 1 : 500

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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Figure 2a

Air Monitoring Locations

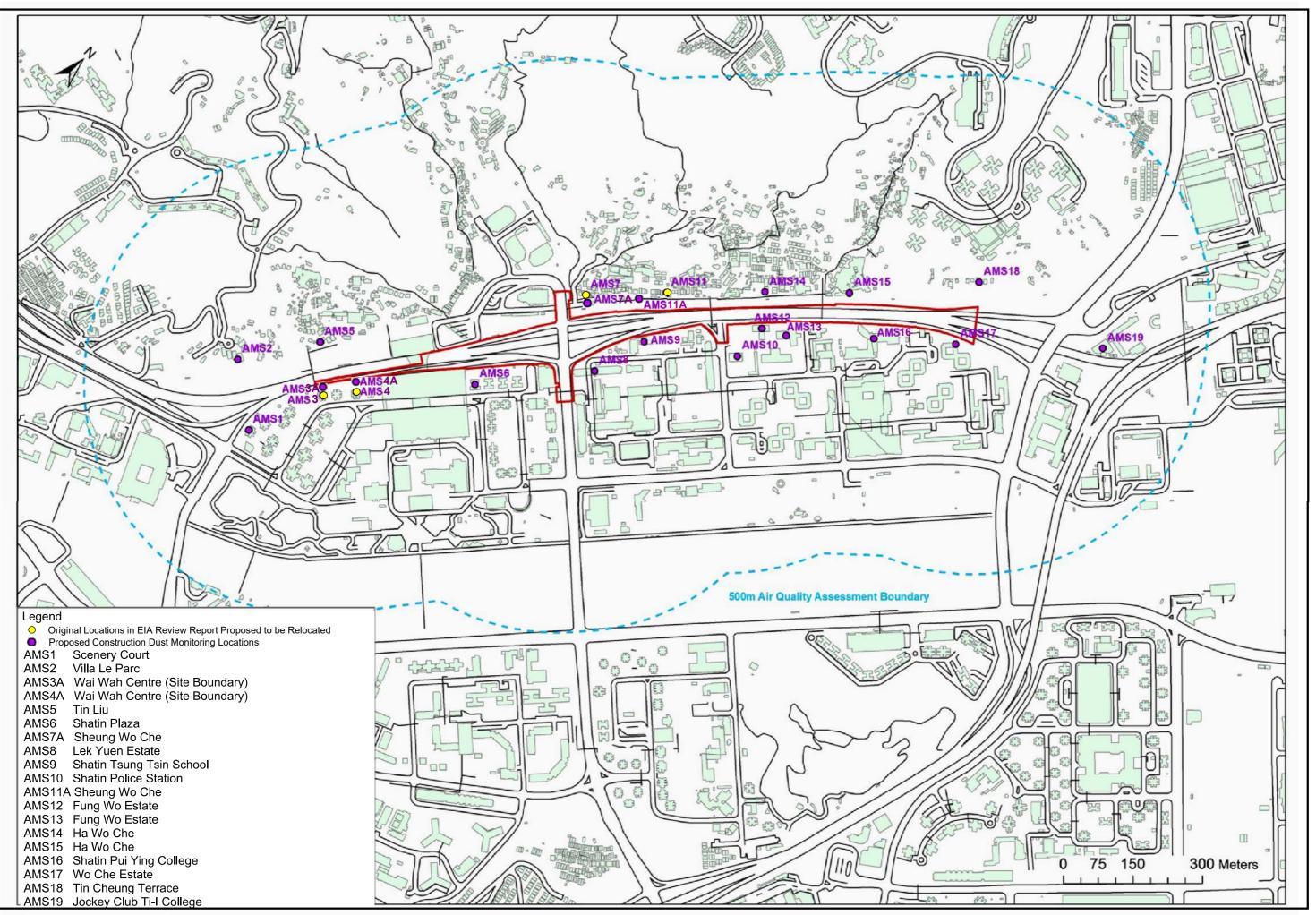


Figure 2a Air Quality Monitoring Locations



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Figure 2b

Noise Monitoring Locations

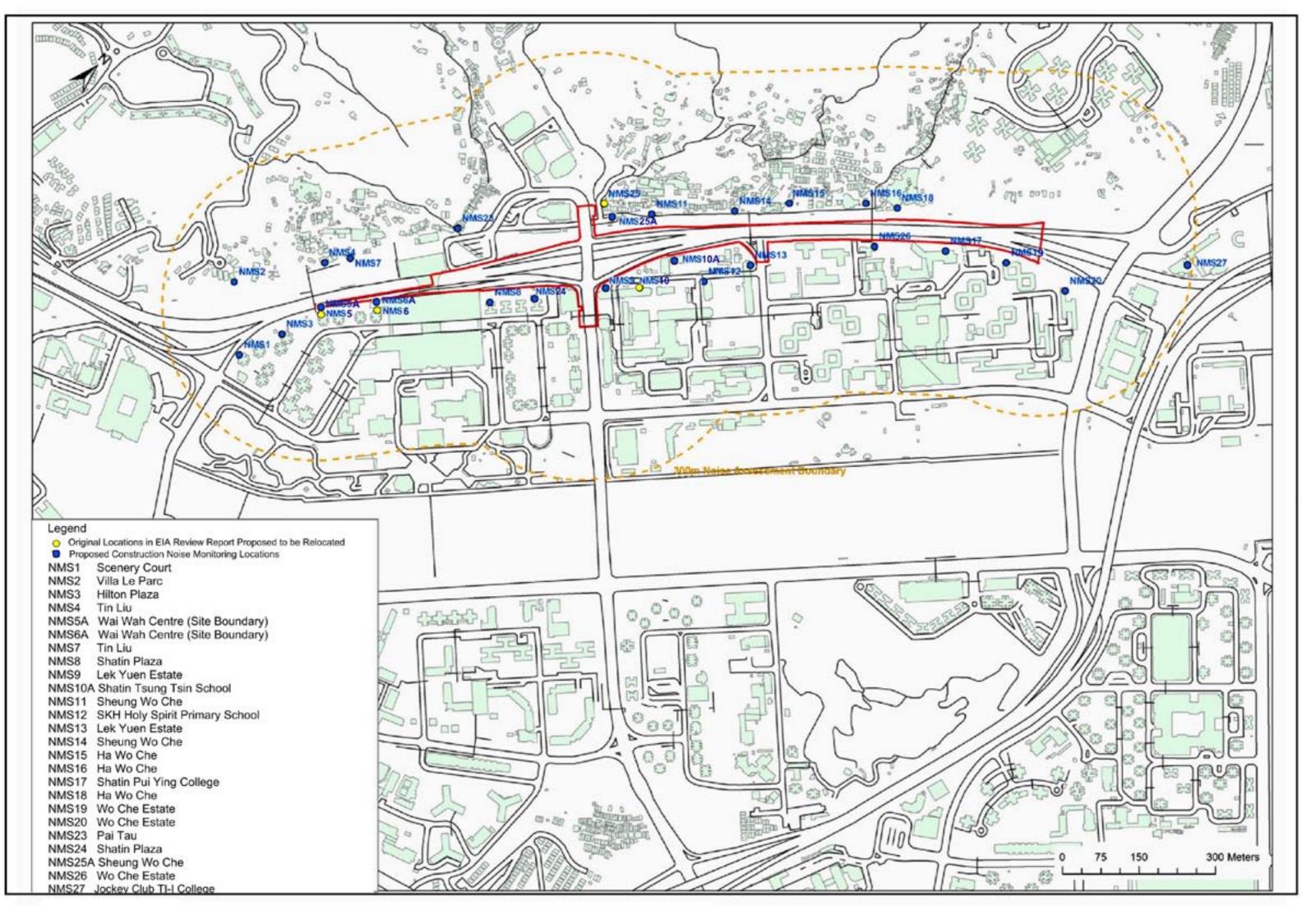


Figure 2b Noise Monitoring Locations



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Appendix A

Construction Programme

ity ID	Activity Name	Original Tem Duration De	uration	SMAP Finis	sh AP6 Start	APS Finish	May	Jun	2019 J Jul	l he	
Contract	NE/2017/05 Road Widening an	d Betrofi	tting Noles	Battion	t on Tai	Do Doc	11	12	13	Aug 14	9
PRELIM	INARIES & GENERAL REQUIRE	MENT	tung noise	Damer	s on rai	PO NOE					
OFNERAL ST											
SUB1115	Survey of the Site	01	0, 31-May-19*	T	31-Mar-19						
SUB1153	BIM Team	0	0 31-May-19*		31-Mar-19			Survey of the Site			
SUB1155	BIM Execution Plan	0	0: 31-May-19*					o BIM Team	-		
SUB1200	Hoarding Plan	0			31-Mar-19			BIM Execution Plan			
SUB1343	TCSS Configuration Management		0: 31-May-19*		31-Mar-19			o Hoarding Plan			
SUB1347		1 0	0: 31-May-19*		31-Mar-19			TCSS Configuration Manag	ement		
	Lift Installation - Design Data	0	0 31-May-19*		31-Mar-19			👌 Lift Installation - Design Da	ta		
SUB1403	ITP's for Lighting Luminaires and System	0	0:31-May-19*		31-Mar-19			ITP's for Lighting Luminaire	s and System		
SUB1405	All Lighting Designs	0.	0 31-May-19*	-	31-Mar-19			All Lighting Designs			
SUB1410	Combined Services Drawings (CSD)	0	0:31-May-19*	1	31-Mar-19			Combined Services Drawin	gs (CSD)		
DESIGN	SUBMISSION		THE SE								
STREE MITE	ROHMOR MODIFICATION WORK'S (Abstrative De	elgis									
DES1070	PM Consent for Construction	28	3; 06-Nov-18 A	02-Jun-19	i 20-Feb-19	19-Mar-19		PM Consent for Construct	tion		
DES1090	PM review & comment	28	3 07-Dec-18 A	02-Jun-19	05-Oct-18	01-Nov-18		PM review 8. comment			
DES1110	PM Consent for Construction	28	28 03-Jun-19	01-Jul-19	29-Aor-19	26-May-19					
DES1140	Re-submit Alternative Design of Bridges SR2 & SR5,	28	3 19-Feb-19 A	02-Jun-19	12-Apr-19	09-May-19		Provincia di una di	PM Consent for Construction		
DES1150	Slab Widening of SHA& Widening of Bridge N262 PM Consent for Construction	28	28 02-Jun-19	30-Jun-19	22-Apr-19	20-May-19		He-submit Alternative De	sign of Bridges SR2 & SR5, Slab V	Videning of SHA & Wide	ning of Brid
NUESE MITTO	ATION MEASURES			100000113	122-101-13	20-1vidy+13			PM Consent for Construction		
DES1180	Re-submit Foundation Design of Noise Mitigation	221	Gi 04 May 48 A								
DES1190	Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction		2 24-Nov-18 A	1	29-Jan-19	19-Feb-19		Re-submit Foundation De	sign of Noise Mitigation Measures	in Zones 1 & 2 w/Desig	in Certificat
DES1230		.28		30-Jun-19	04-Apr-19	02-May-19		Lana and a	PM Consent for Construction		
*****	PM Consent for Construction	28	11 02-Jan-19 A	(11-Jun-19	31-Jan-19	27-Feb-19		PM Consent for (Construction		
DES1240	Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate	21	4 26-Nov-18 A	04-Jun-19	31-Dec-18	20-jan-19		Prepare & submit Found	ation Design of Mitigation Measur	res In Zone 3 w/Design	Certificate
DES1250	PM review & comment	28	28 04-Jun-19	02-Jul-19	05-Apr-19	02-May-19			PM review & comment		
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	23 03-Jul-19	26-Jul-19	04-May-19	26-May-19			Re-s	submit Foundation Desig	n of Noise
xxxx Ren	maining Level of Effort	a Work	DOM		1110 a P		10.10		Date Revision	Okash 1	A
		emaining Wo	ork				NG NOISE BA		Jun-19 3MRP DWP 190	Check	Approved
Dala	nary Baseline 🔷 🔷 Milestone	-					jramme (31/0				

vity ID	Activity Name	Duration Duration		3MRP Finish	AP6 Start	AP6 Finish	Mey	Jun	2018	Jul	-	
DES1270	PM Consent for Construction	1.442	28: 26-Jui-19	23-Aug-19	27-May-19	23-Jun-19	11	12	-	13	Aug 14	5
DES1280	Prepare & submit Superstructure Design of Noise	4		· · · · · · · · · · · · · · · · · · ·						(C		PM Conse
te die State Charles ausgeste states	Mitigation Measures in Zones 1 & 2 w/Design	21	2 14-Jan-19A	06-Jun-19	05-Feb-19	25-Feb-19		💼 💼 Prepare & sub	mit Superstructur	e Design of Noise Miti	igation Measures in Z	ones 1 & 2 w/D
DES1290	PM review & comment	28	28 06-Jun-19	04-Jul-19	08-Apr-19	05-May-19		1	PM	review & comment		
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design	20	20 05-Jul-19	25-Jul-19	07-May-19	26-May-19			-	Re	submit Superstructur	e Deslan of:Noi
DES1310	PM Consent for Construction	28	28 25-Jul-19	22-Aug-19	27-May-19	23-Jun-19					·····	
DES1320	Prepare & submit Superstructure Design of Noise	21	17: 20-Mar-19 A	23-Jun-19	08-Apr-19	28-Apr-19			Propero & cub	mit Superstructure De	algo of Malao Million	
DES1330	Mitigation Measures in Zone 3 w/Design Certificate PM review & comment	28,	28 23-Jun-19	21-Jul-19	26-Apr-19	(24-May-19					-	on Measures In
DES1340	Re-submit Superstructure Design of Noise	21	21: 22-Jul-19	12-Aug-19	-	15-Jun-19	-		Contraction and	PM revi	ew & comment	
DES1350	Mitigation Measures in Zone 3 w/Design Certificate	ļ								6	Re-sul	omit Superstruc
DES1360			281 12-Aug-19	09-Sep-19	15-Jun-19	13-Jul-19						
	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	21 1	7 20-Mar-19 A	: 09-Jul-19	26-Apr-19	17-May-19				Prepare & submit Si	uperstructure Design	of Noise Mitigat
DES1370	PM review & comment	28 2	28:09-Jul-19	06-Aug-19	15-May-19	12-Jun-19).				PM review &	comment
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	20 3	201 07-Aug-19	27-Aug-19	13-Jun-19	03-Jul-19					-	Re-su
DES1390	PM Consent for Construction	28 2	28 27-Aug-19	24-Sep-19	03-Jul-19	31-Jul-19						
REMAINING	works											:
DES1430	PM Consent for Construction	28	11 11-Jan-19 A	11-10-19	04-Mar-19	31-Mar-19				·		
DES1460	Re-submit Foundation Design of Footbridge NF40 &							PM Const	ent for Construction	on		
DES1470	NF66 w/Design Certificate PM Consent for Construction		32 13-Apr-19 A		06-Apr-19	10-May-19		¢	Re-sul	bmit Foundation Desig	n of Footbridge NF40	& NF66 w/Des
		· · · · · · · · · · · · · · · · · · ·	28 01-Jul-19	29-Jul-19	11-May-19	07-Jun-19			-		PM Consent for Cons	truction
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2. Lift 2 Staircase, Cycle Track Ramp & Sign	21	5 26-Nov-18 A	04-Jun-19	31-Dec-18	20-Jan-19		Prepare & submi	t Foundation Desi	ign of Pedestrian Lift 1	& 2, Lift 2 Staircase,	Cycle Track R
DES1490	PM review & comment	28 2	8 05-Jun-19	02-Jul-19	05-Apr-19	02-May-19			PM re	eview & comment		
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry	35 3	15 04-Jul-19	07-Aug-19	04-May-19	07-Jun-19					Be-submit F	oundation De
DES1510	PM Consent for Construction	28 2	8: 08-Aug-19	04-Sep-19	08-Jun-19	05-Jul-19						ounder on po.
DES1530	PM review & comment	28;	1 02-Jan-19 A	31-May-19	31-Jan-19	27-Feb-19		PM review & comma				
DES1540	Re-submit Design of Watermain & Irrigation System	a and a second second	1, 02-Jan-19 A		02-Apr-19	03-May-19		- 18 - FG - F	2			
DES1550	w/Design Certificate PM Consent for Construction							Re-submit Design of	Watermain & Irriç	gation System w/Desig	h Certificate	
DES1560	Prepare & submit Design of E&M System (E&M &		8 21-Jan-19 A		04-May-19	31-May-19			PM Conse	ent for Construction		
	Road Lighting) w/Design Certificate	35 3	5 31-May-19	04-Jul-19	31-Mar-19	04-May-19			Рте	pare & submit Design	of E&M System (E&M	& Road Lightin
DES1570	PM review & comment	28' 2	8 ₁ 05-Jul-19	01-Aug-19	05-May-19	01-Jun-19		T	-		PM review & comr	nent
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32 3	2 03-Aug-19	03-Sep-19	03-Jun-19	04-Jul-19						
SUBLETT	TING & PROCUREMENT SCHEI	DULE		1111								
INRLETTING												
SPS1000	Meintenance of Traffic Flow	30 0	0 31-May-19	29-Jun-19	31-Mar-19	29-Apr-19						
									Mainténa	ince of Traffic Flow		
Rem	naining Level of Effort Remaining	g Work	ROAL		NG & RE	TROFITTING	NOISE BARR	ERS ON TAI	Date	Revision	Check	Approved
		emaining Work				AD (SHA TIN			08-Jun-19	3MRP DWP 190	5 Tim	
	nary Baseline 🔷 🔷 Milestone			3 M	onths R	olling Progra	mme (31/05/19)				
Actu	al Work 🔷 🔶 Baseline M	lilestone				Page 2 of			1			

	Activity Name	Duration Durat	ing 3MRP Start Ion	3MRP Finish	AP6 Start	AP6 Finish	May	Jun Jun	2019	Aug	
SP\$1010	Electronic Document Management System (EDMS)	30	1118-Oct-18A	(31-May-19*	31-Dec-18	29-Jan-19	11	12 Electronic Document	1 Management System (EDMS) for the	14	
SPS1030	for the use of the Project Manager Hoarding and Signboard	30	30. 31-May-19	29-Jun-19	31-Mar-19	29-Apr-19				use of the Project Manag	ler
SPS1040	Survey of the Site	301	30 31-May-19		31-Mar-19	29-Apr-19			Hoarding and Signboard		
SPS1060	Security System of the Site	· · · · · · · · · · · · · · · · · · ·		1	31-Mar-19			-	Survey of the Site		
SPS1090	Building Information Model (BIM)	······································		. <u></u>	······	29-Apr-19		-	Security System of the Site		
SPS1140			17' 12-Mar-19 A		31-Mar-19	29-Apr-19			Building Information Model (BIM)	
	Site Clearance and Demolition Work	· · · · · · · · · · · · · · · · · · ·		20-Jui-19	07-Apr-19	06-May-19		-	Site Cl	earance and Demolition V	Nork
SPS1160	Monitoring and Instrumentation	30	30 20-Jun-19	20-Jul-19	07-Apr-19	06-May-19			Monito	ing and Instrumentation	
SPS1170	Piling Works and Pile Testing	30	1 21-Dec-18 A	31-May-19	28-Feb-19	29-Mar-19		Piling Works and Pile	e Testing		
SPS1200	Waterwork (Pipework)	30	30! 31-May-19	29-Jun-19	31-Mar-19	29-Apr-19			Waterwork (Pipework)		
SPS1210	Drainage (PC plpe, manhole & gully) and Duct	30	30 30-Jul-19	28-Aug-19	31-May-19	29-Jun-19	· · · · · · · · · · · · · · · · · ·				Drai
SPS1220	CCTV for Drainage Pipe	30	30 31-May-19	29-Jun-19	01-Apr-19	30-Apr-19			CCTV for Drainage Pipe		
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30 31-May-19	29-Jun-19	31-Mar-19	29-Apr-19					
SPS1250	Reinforced Concrete Work for Noise Mitigation	30	30 31-May-19		31-Mar-19	29-Apr-19			Reinforced Concrete Work for		
SPS1260	Measures Reinforced Concrete Work for Bridge Work		30 27-Jun-19	· · · · · · · · · · · · · · · · · · ·					Reinforced Concrete Work for	or Noise Mitigation Measu	ures
SPS1280	Reinforced Concrete Work for Footbridge NF40 &	: ***			28-Apr-19	28-May-19				Reinforced Concrete Wo	rk for Bridge
·	NF66		30 17-Jul-19	-	23-May-19	22-Jun-19				Rein	forced Con
SPS1290	Steelwork for NB and Lift Tower	30	30 26-Jun-19	25-Jul-19	24-Apr-19	23-May-19			Si	eelwork for NB and Lift To	ower
SPS1310	Bearing and Movement Joint	30	30 06-Jul-19	04-Aug-19	01-May-19	31-May-19				Bearing and Mov	ement Joint
SPS1320	Tendon Works	30	30; 06-Jul-19	04-Aug-19	91-May-19	31-May-19		1		Tendon Works	
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	30 09-Jul-19	07-Aug-19	02-May-19	31-May-19				Pedestrian Lif	it (Lift Cars
SPS1420	Lighting System for Noise Mitigation Measures	30	30:03-Aug-19	01-Sep-19	12-Jul-19	10-Aug-19					
SPS1440	Drainage for Noise Mitigation Measures	30	30 03-Aug-19	01-Sep-19	12-Jul-19	10-Aug-19				1	1
SPS1460	Waterproofing (Bitumen Paint)	30	30, 18-Jun-19	18-Jul-19	06-Apr-19	05-May-19	-				
VORK B	ETWEEN SHING MUN TUNNEL	S BOAD A							waterpro	ofing (Bitumen Paint)	
PRELIMINARI	LI WORKS	S NOAD A	NDFUUT	BRIDGE	= NE717	4 (ZON					
TEMPORATE	TRAFFIC ARRAGEMENT										
TTA PERIOD											
Sevenanti											
Z1_1410	Construction Zone 1_Stage 1 Northbound R1 structure	300 30	0 11-Jul-19	14-Jul-20	19-Jun-19	20-Jun-20				000000000000000000000000000000000000000	0000
PREPARATOR											1
TREE FELLIN	IG/TRANPLANT										
Z1_1290	Zone 1_tree lelling works	18	9 25-Jan-19 A	22-Jun-19	11-Mar-19	01-Apr-19			Zonatree felling works		
COCC Rem	naining Level of Effort	a Work						41			
		g work emaining Work		D WIDENI			NG NOISE BARR	ERS ON TAI	Date Revision 08-Jun-19 3MRP DWP 19		Approve
_	ary Baseline \diamond \diamond Milestone	•		2 8.0			TIN SECTION) gramme (31/05/19		State of the state of the		
	al Work		1	0 101	enu is -ni	Page 3)			

	Activity Name	Duration [maining 3MRP Start Duration	SMRP Finish	AP6 Start	AP6 Finish	May	Jun Jun	201	2 Jul 1	Aun	
MODIFICATI	ON EXISTING ROAD/TEMPORARY ROAD	the second	-			-	11	12		13	Aug 14	
Z1_1270	Zone 1-1_construct temporary road platform along	60	60 11-Jul-19	19-Sep-19	10.1	100 Aug 10					-	
UTILITIES DA	Northbound for R1		00 11-00-13	19-36p-18	19-Jun-19	28-Aug-19		16	1	e+		
CENTRAL B												
Z1_1300	UU_CLP-abandoned 33kv cable for RSE1 CH1190-1300 110m	20	20 23-Aug-19	16-Sep-19	02-Aug-19	24-Aug-19						
WORK B	ETWEEN FOOT BRIDGE NF71	A AND C	TYLINE PL	AZA (ZO	NE 2)							
PHELEANARD	ES WORKS							1		-		
TEMPOHANY	TRAFFIC ANNAGONESIT					_						
TTA PERIOD		_	_	_	_							
Z2_1260	Construction Zone 2_Stage 1 Central Barrier	6 × 8	F10 - 00 - 10									1
	stuciure	518	518 22-Jun-19	18-Mar-21	31-May-19	25-Feb-21			000000000000000000000000000000000000000	******		
PREMARATOR												
TREE FELLIN	NG/TRANPLANT											
Z2_1220	Zona 2_tree felling works	18	18 19-Fob-19 A	21-Jun-19	24-Jan-20	17-Feb-20						
MODIFICATIO	ON EXISTING ROAD/TEMPORARY ROAD				-	· · - · · [
Z2_1230	Zone 2-1_construct temporary road platform along	60	60 22-Jun-19	31-Aug-19	31-May.10	10-Aug-19						
	ETWEEN CITYLINE PLAZA ANI					Tomagero			-			
TTA PERIOD	TRAFFIC ANRAGEMENT	-										
20.000	Construction period of Zone 3a 1	341	341 31-May-19	23-Jul-20	17-Apr-19	20-May-20			na ang tang			
23_3270	Construction bit too the Yours 36"1	2011		A CONTRACTOR OF A CONTRACT								
Z3_3270 Z3_3340	Construction period of Zone 3c_1			22-Jul-20	22.May.19	30-May-20		6		All		
	Construction period of Zone 3c_1	340	340 31-May-19		22-May-19	30-May-20						
Z3_3340 Z3_3400	Construction period of Zone 3c_1 Construction period of Zone 3b_1				22-May-19 30-May-19	30-May-20 30-May-20						
Z3_3340 Z3_3400	Construction period of Zone 3c_1 Construction period of Zone 3b_1	340	340 31-May-19									
Z3_3340 Z3_3400 FREMMATOR TREE FELLIN	Construction period of Zone 3c_1 Construction period of Zone 3b_1 WWORKS IG/TRANPLANT	340	340 31-May-19									
Z3_3340 Z3_3400	Construction period of Zone 3c_1 Construction period of Zone 3b_1	340	340 31-May-19	03-Aug-20	30-May-19	30-May-20				2222		
Z3_3340 Z3_3400 FEENMATON TABLE FELLIN Z3_2800	Construction period of Zone 3c_1 Construction period of Zone 3b_1 WWORKS IG/TRANPLANT	340	340 31-May-19 300 30-Jul-19	03-Aug-20	30-May-19	30-May-20						
Z3_3340 Z3_3400 FEENMATON TABLE FELLIN Z3_2800	Construction period of Zone 3c_1 Construction period of Zone 3b_1 Construction period of Zone 3b_1 IG/TRANPLANT Zone 3_trae felling works	340	340 31-May-19 300 30-Jul-19	03-Aug-20	30-May-19	30-May-20						
Z3_3340 Z3_3400 FREEABATOR TREE FELLIN Z3_2800 BRIDGE AND	Construction period of Zone 3c_1 Construction period of Zone 3b_1 Construction period of Zone 3b_1 IN WORKS IG/TRANPLANT Zone 3_trae felling works ETRUCTURE WORKS CO WORKS	340	340 31-May-19 300 30-Jul-19	03-Aug-20	30-May-19	30-May-20						
Z3_3340 Z3_3400 FREMMATOR TREE FELLIN Z3_2800 FREE MINAMIN	Construction period of Zone 3c_1 Construction period of Zone 3b_1 WYNORKS IG/TRANPLANT Zone 3_trae felling works STRUCTURE WORKS IS WORKS	340	340 31-May-19 300 30-Jul-19	03-Aug-20	30-May-19	30-May-20						
Z3_3340 Z3_3400 FREFMINTON TREE FELLIN Z3_2800 MILLIO AND FRELIMINANIA UTILITIES ON NORTHEOU	Construction period of Zone 3c_1 Construction period of Zone 3b_1 ICARSTRUCTIONE IGUTRANPLANT Zone 3_trae felling works STRUCTIONE WORKS CO WORKS WERSION	340 300	340 31-May-19 300 30-Jul-19 1 22-Jan-19 A	03-Aug-20 31-May-19	30-May-19 25-Feb-13	30-May-20		Zone 3_tree felling w	rorks	<u></u>		
Z3_3340 Z3_3400 FREEMMATOR TREE FELLIN Z3_2800 FREEMMANN UTILITIES ON	Construction period of Zone 3c_1 Construction period of Zone 3b_1 WYNORKS IG/TRANPLANT Zone 3_trae felling works STRUCTURE WORKS IS WORKS	340	340 31-May-19 300 30-Jul-19	03-Aug-20 31-May-19	30-May-19	30-May-20		Zone 3_tree felling w	rorks	11kv cable for RW6 CH 1676		
Z3_3340 Z3_3400 FREEMINATOR TREE FELLIN Z3_2800 FREEMINATION FREEMINATION UTILITIES ON NORTHEOU Z3_2810	Construction period of Zone 3c_1 Construction period of Zone 3b_1 IV WORKS IG/TRANPLANT Zone 3_trae felling works STRUCTURE WORKS CO WORKS WERSION WO UU_CLP-abandoned 11ky cable for RWE	340 300 18	340 31-May-19 300 30-Jul-19 1 22-Jan-19 A 13 81-May-19	03-Aug-20 31-May-19 15-Jun-19	30-May-19 25-Feb-13 03-Apr-19	30-May-20 16-Mar-19 18-Apr-19		Zone 3_tree felfing w	rorks	<u></u>	5-1725 50m	
Z3_3340 Z3_3400 FREEMINATOR TREE FELLIN Z3_2800 FREE MINAMI UTILITIES ON PACE MINAMI UTILITIES ON 23_2910	Construction period of Zone 3c_1 Construction period of Zone 3c_1 Construction period of Zone 3c_1 IN WORKS IGTRANPLANT Zone 3_trae felling works STRUCTURE WORKS CONSTRUCTURE WORKS CON	340 300 18	340 31-May-19 300 30-Jul-19 1 22-Jan-19A 13 31-May-19 ROAI	03-Aug-20 31-May-19 15-Jun-19	30-May-19 25-Feb-19 03-Apr-19 NG & RE	30-May-20 16-Mar-19 18-Apr-19	VG NOISE BARF	Zone 3_tree felfing w	orks CLP-abandoned Date	11kv cable for RW6 CH 167		Approve
Z3_3340 Z3_3400 FREPMINTON TREE FELLIN Z3_2800 FREDININANI UTILITIES ON PREDININANI UTILITIES ON 23_2910 Z3_2910 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Construction period of Zone 3c_1 Construction period of Zone 3c_1 Construction period of Zone 3c_1 IN WORKS IGTRANPLANT Zone 3_trae felling works STRUCTURE WORKS CONSTRUCTURE WORKS CON	340 300 18 13 19 Work emaining W	340 31-May-19 300 30-Jul-19 1 22-Jan-19A 13 31-May-19 ROAI	03-Aug-20 31-May-19 15-Jun-19 D WIDENI	30-May-19 25-Feb-13 93-Apr-19 NG & RE PO RC	30-May-20 16-Mar-19 18-Apr-19 TROFITTI DAD (SHA T	NG NOISE BARF IN SECTION) Framme (31/05/11	Zone 3_tree felling w	orks CLP-abandoned Date	11kv cable for RW6 CH1676 Revision	5-1725 50m	

	Activity Name	Duration	lemaining Duration	3MRP Start	3MRP Finish	AP6 Start	AP8 Finish	May	Jun	2019	Jul	Aug	- 11
Z3_2920	UU_HK1-diversion cable for RW7 CH1830-2000 170m	34	34	18-Jun-19	27-Jul-19	16-Apr-19	31-May-19		12		13	14 UU_HKT-diversion cable for	DMTC
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m	22,	22	03-Jul-19	27-Jul-19	04-May-19	31-May-19						
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23	23	03-Jul-19	30-Jul-19	03-May-19	31-May-19 -					UU_CLP-abandoned 11kv ca	
SOUTHBOU	IND	-			-				Ĩ			UU_Fresh watermain for :	SR4 178
Z3_2970	UU_HK1-new cable for RW1 & SR3 CH1450-2300	127	127	31-May-19	31-Oct-19	01-Apr-19	04-Sep-19						
Z3_3050	850m UU_CLF-abandoned 11kv cable for SR2 & N263	35	35	20-Jun-19	31-Jul-19	24-Apr-19	05-Jun-19		1				
Z3_3060	CH1710-1950 240m UU_GAS-diversion LP pipe for SR2 & N263	51		31-May-19		01-Apr-19	05-Jun-19					UU_CLP-abandoned 11k	vcable
Z3_3070	CH1640-1850 210m UU_HKT-diversion cable for SR2 & N263	39		15-Jun-19	31-Jul-19							UU_GAS-diversion LP pi	pe for S
Z3_3110	CH1630-1840 210m UU_GAS-diversion LP pipe for N263 CH1825-1960	38			· ·····	16-Apr-19	05-Jun-19					UU_HKT-diversion cable	for SR
Z3 3120	135m UU_Fresh watermain for Staircase & N263 150PE	·····		17-Jun-19	31-Jul-19	17-Apr-19	05-Jun-19			_		UU_GAS-diversion LP pi	pe for N
		23	23	23-Aug-19	19-Sep-19	29-Jun-19	26-Jul-19						
	IN NORTH HOLLOW ABUTALENT (N284)												
3_4200	C01_ELS & footing construction	45	45	03-Jun-19	26-Jul-19	05-Apr-19	04-Jun-19		T			C01_ELS & footing constructio	n
3_4210	C01_cloumn construction	40	40	27-Jul-19	11-Sep-19	04-Jun-19	23-Jul-19						
3_4220	N264_modification existing MTRC fencing for deck widening	60	60;	03-Jun-19	13-Aug-19	05-Apr-19	22-Jun-19					N264 modil	Fastian
3_4240	N264_temporary protection MTRC cable	45	45;	27-Jul-19	18-Sep-19	94-Jun-19	29-Jul-19	•••••••••••••••••••••••••••••••••••••••	-			N264_modil	псацол
OBIFICATION	N OF NINDES Hats												
ECONSTRUC	ICTION ABUTMENT WALL AT NHA		_		_		-						
	Domolioh part of evi-tine MIM												
Z3_4100	Demonstripant of existing NHA wall for construction	60 :	60	31.May. 19*	10.400.10								
Z3_4100 Z3_4110	Demolish part of existing NHA wall for construction new wall NAW-1 construct ELS & piling platform	60		31-May-19*	-	17-Apr-19	03-Jul-19					Demolish part of	ofexisti
Z3_4110	NAW-1_construct ELS & piling platform	42	42	31-May-19*	20-Jul-19	17-Apr-19	11-Jun-19				NAW-1	Demotish part of Construct ELS & piling platfo	
Z3_4110 Z3_4120	new wall NAW-1_construct ELS & piling platform NAW-1_piling works for new NHA wall 5nr 1.5m bored pilo	42 70	42 70	31-May-19* 30-Jul-19	20-Jul-19						NAW-1		
Z3_4110 Z3_4120 Z3_4150	new wall NAW-1_construct ELS & piling platform NAW-1_piling works for new NHA wall Snr 1.5m bored pile NAW-2_construct ELS & piling platform	42	42 70	31-May-19* 30-Jul-19	20-Jul-19 23-Oct-19	17-Apr-19	11-Jun-19						erim Secondaria
Z3_4110 Z3_4120 Z3_4150 Z3_4150 Z3_4160	new wall NAW-1_construct ELS & piling platform NAW-1_piling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & piling platform NAW-2_piling works for new NHA wall 4nr 1.5m bored pile	42 70	42 70 42	31-May-19* 30-Jul-19 31-May-19	20-Jul-19 23-Oct-19 20-Jul-19	17-Apr-19 12-Jun-19	11-Jun-19 02-Sep-19					_construct ELS & piling platfo	erm
Z3_4110 Z3_4120 Z3_4150 Z3_4150 Z3_4160	new wall NAW-1_construct ELS & piling platform NAW-1_piling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & piling platform NAW-2_piling works for new NHA wall 4nr 1.5m	42 70 42	42 70 42	31-May-19* 30-Jul-19 31-May-19	20-Jul-19 23-Oct-19 20-Jul-19	17-Apr-19 12-Jun-19 17-Apr-19	11-Jun-19 02-Sep-19 11-Jun-19					_construct ELS & piling platfo	
Z3_4110 Z3_4120 Z3_4150 Z3_4150 Z3_4160	new wall NAW-1_construct ELS & pilling platform NAW-1_pilling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & pilling platform NAW-2_construct ELS & pilling platform NAW-2_pilling works for new NHA wall 4nr 1.5m bored pile N EXISTING PIER WALL OF N263 SAW-1_pilling works for new NHA wall 3nr 1.5m	42 70 42	42 70 42 56	31-May-19* 30-Jul-19 31-May-19 30-Jul-19	20-Jul-19 23-Oct-19 20-Jul-19	17-Apr-19 12-Jun-19 17-Apr-19 12-Jun-19	11-Jun-19 02-Sep-19 11-Jun-19					_construct ELS & piling platfo	erm
Z3_4110 Z3_4120 Z3_4150 Z3_4160 KODIFICATIO Z3_3870	new wall NAW-1_construct ELS & piling platform NAW-1_rilling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & piling platform NAW-2_piling works for new NHA wall 4nr 1.5m bored pile NAW-2_piling works for new NHA wall 4nr 1.5m bored pile	42 70 42 56	42 70 42 56	31-May-19* 30-Jul-19 31-May-19 30-Jul-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19	17-Apr-19 12-Jun-19 17-Apr-19 12-Jun-19	11-Jun-19 102-Sep-19 11-Jun-19 16-Aug-19					_construct ELS & piling platfo	erim Secondaria
Z3_4110 Z3_4120 Z3_4150 Z3_4160 KODIFICATIO Z3_3870	new wall NAW-1_construct ELS & piling platform NAW-1_piling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & piling platform NAW-2_piling works for new NHA wall 4nr 1.5m bored pile N EXISTING PIER WALL OF N263 SAW-1_piling works for new NHA wall 3nr 1.5m bored pile	42 70 42 56	42 70 42 56	31-May-19* 30-Jul-19 31-May-19 30-Jul-19 01-Aug-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19 19-Sep-19	17-Apr-19 12-Jun-19 17-Apr-19 12-Jun-19 06-Jun-19	11-Jun-19 02-Sep-19 11-Jun-19 16-Aug-19 26-Jul-19					_construct ELS & piling platfo	erim Anna anna
Z3_4110 Z3_4120 Z3_4150 Z3_4160 KODIFICATION Z3_3870 KODIFICATION Z3_3950	new wall NAW-1_construct ELS & piling platform NAW-1_ciling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & piling platform NAW-2_construct ELS & piling	42 70 42 56 42	42 70 42 56	31-May-19* 30-Jul-19 31-May-19 30-Jul-19 01-Aug-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19 19-Sep-19	17-Apr-19 12-Jun-19 17-Apr-19 12-Jun-19	11-Jun-19 102-Sep-19 11-Jun-19 16-Aug-19					_construct ELS & piling platfo	erim Anna anna
Z3_4110 Z3_4120 Z3_4150 Z3_4160 KODIFICATION Z3_3870 KODIFICATION Z3_3950	new wall NAW-1_construct ELS & piling platform NAW-1_piling works for new NHA wall Snr 1.5m bored pilo NAW-2_construct ELS & piling platform NAW-2_construct ELS & piling platform NAW-1_construct ELS & piling platform NAW-1	42 70 42 56 42	42 70 42 56	31-May-19* 30-Jul-19 31-May-19 30-Jul-19 01-Aug-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19 19-Sep-19	17-Apr-19 12-Jun-19 17-Apr-19 12-Jun-19 06-Jun-19	11-Jun-19 02-Sep-19 11-Jun-19 16-Aug-19 26-Jul-19					_construct ELS & piling platfo	erm
Z3_4110 Z3_4120 Z3_4150 Z3_4160 KODIFICATION Z3_3870 KODIFICATION Z3_3950 ETAINING W/	new wall NAW-1_construct ELS & piling platform NAW-1_ciling works for new NHA wall Snr 1.5m bored pile NAW-2_construct ELS & piling platform NAW-2_construct ELS & piling platform NAW-2_piling works for new NHA wall 4nr 1.5m bored pile N EXISTING PIER WALL OF N263 SAW-1_piling works for new NHA wall 3nr 1.5m bored pile N EXISTING SOUTH HOLLOW ABUTMENT WALL SHA_piling works for pier SHA6 nos. Socket H-pile	42 70 42 56 42 48	42 70 42 56 42 48	31-May-19* 30-Jul-19 31-May-19 30-Jul-19 01-Aug-19 30-Jul-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19 19-Sep-19 25-Sep-19	17-Apr-19 12-Jun-19 17-Apr-19 12-Jun-19 06-Jun-19 30-May-19	11-Jun-19 102-Sep-19 11-Jun-19 16-Aug-19 26-Jul-19 27-Jul-19					_construct ELS & piling platfo	erm
Z3_4110 Z3_4120 Z3_4150 Z3_4150 Z3_4160 KODIFICATION Z3_3870 KODIFICATION Z3_3950 ETAINING W/ Z3_4550	new wall NAW-1_construct ELS & piling platform NAW-1_piling works for new NHA wall 5nr 1.5m bored pila NAW-2_construct ELS & piling platform NAW-2_construct ELS & piling platform NAW-1_construct ELS & piling	42 70 42 56 42 48 48	42 70 42 56 42 48	31-May-19* 30-Jul-19 31-May-19 30-Jul-19 01-Aug-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19 19-Sep-19 25-Sep-19	17-Apr-19 12-Jun-19 17-Apr-19 12-Jun-19 06-Jun-19	11-Jun-19 102-Sep-19 11-Jun-19 16-Aug-19 26-Jul-19 27-Jul-19				NAW-2	_construct ELS & piling platfo	rm
Z3_4110 Z3_4120 Z3_4150 Z3_4160 KODIFICATION Z3_3870 KODIFICATION Z3_3950 ETAINING W/	new wall NAW-1_construct ELS & pilling platform NAW-1_pilling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & pilling platform NAW-2_pilling works for new NHA wall 4nr 1.5m bored pile NEXISTING PIER WALL OF N263 SAW-1_pilling works for new NHA wall 3nr 1.5m bored pilo NEXISTING SOUTH HOLLOW ABUTMENT WALL SHA_pilling works for pier SHA 6 nos. Socket H-pile MALL NO.1 RW1_demolish existing retaining structure between	42 70 42 56 42 48	42 70 42 56 42 48 48 48 48	31-May-19* 30-Jul-19 31-May-19 30-Jul-19 01-Aug-19 30-Jul-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19 19-Sep-19 25-Sep-19	17-Apr-19 12-Jun-19 17-Apr-19 12-Jun-19 06-Jun-19 30-May-19 22-May-19	11-Jun-19 102-Sep-19 11-Jun-19 16-Aug-19 26-Jul-19 27-Jul-19				NAW-2	construct ELS & piling platfo	rm
Z3_4110 Z3_4120 Z3_4150 Z3_4150 Z3_4160 IODIFICATION Z3_3870 IODIFICATION Z3_3950 ETAINING W/ Z3_4550 Z3_4550	new wall NAW-1_construct ELS & pilling platform NAW-1_pilling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & pilling platform NAW-2_construct ELS & pilling platform NAW-2_pilling works for new NHA wall 4nr 1.5m bored pile NEXISTING PIER WALL OF N263 SAW-1_pilling works for new NHA wall 3nr 1.5m bored pilo NEXISTING SOUTH HOLLOW ABUT MENT WALL SHA_pilling works for pier SHA 6 nos. Socket H-pile MALL NO.1 RW1_demolish existing retaining structure between Bay 101 and Bay 104 RW1_demolish existing retaining structure between Bay 105 and Bay 107.	42 70 42 56 42 48 48 48	42 70 42 56 42 48 48 48 48	31-May-19* 30-Jul-19 31-May-19 30-Jul-19 01-Aug-19 30-Jul-19 81-May-19 25-Jul-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19 19-Sep-19 25-Sep-19 24-Jul-19 16-Sep-19	17-Apr-19 12-Jun-19 17-Apr-19 12-Jun-19 06-Jun-19 30-May-19 22-May-19 16-Jul-19	11-Jun-19 02-Sep-19 11-Jun-19 16-Aug-19 26-Jul-19 27-Jul-19 16-Jul-19 06-Sep-19				NAW-2	Construct ELS & piling platfo	rm struct
Z3_4110 Z3_4120 Z3_4150 Z3_4150 Z3_4160 KODIFICATION Z3_3870 KODIFICATION Z3_3850 ETAINING WA Z3_4550 Z3_4600	new wall NAW-1_construct ELS & piling platform NAW-1_ciling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & piling platform NAW-2_construct ELS & piling platform NAW-1_construct ELS & piling platform NAW-1	42 70 42 56 42 48 48 48 48 48	42 70 42 56 42 48 48 45 45 5	31-May-19* 30-Jul-19 31-May-19 30-Jul-19 01-Aug-19 30-Jul-19 81-May-19 25-Jul-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19 19-Sep-19 25-Sep-19 24-Jul-19 16-Sep-19	17-Apr-19 12-Jun-19 12-Jun-19 12-Jun-19 06-Jun-19 30-May-19 22-May-19 16-Jul-19 NG & RE	11-Jun-19 02-Sep-19 11-Jun-19 16-Aug-19 26-Jul-19 27-Jul-19 16-Jul-19 06-Sep-19 TROFITTINC		RS ON TAI	Date 08-Jun-19	NAW-2	Construct ELS & piling platfo	rm
Z3_4110 Z3_4120 Z3_4150 Z3_4150 Z3_4160 KODIFICATION KODIFICATION Z3_3870 KODIFICATION Z3_3850 ETAINING WA Z3_4550 Z3_4600 XXX Remain Actual	new wall NAW-1_construct ELS & piling platform NAW-1_ciling works for new NHA wall 5nr 1.5m bored pile NAW-2_construct ELS & piling platform NAW-2_construct ELS & piling platform NAW-1_construct ELS & piling platform NAW-1	42 70 42 56 42 48 48 48 48 48	42 70 42 56 42 48 48 45 45 5	31-May-19* 30-Jul-19 31-May-19 30-Jul-19 01-Aug-19 30-Jul-19 81-May-19 25-Jul-19	20-Jul-19 23-Oct-19 20-Jul-19 05-Oct-19 19-Sep-19 25-Sep-19 24-Jul-19 16-Sep-19 16-Sep-19	17-Apr-19 12-Jun-19 12-Jun-19 12-Jun-19 06-Jun-19 30-May-19 22-May-19 16-Jul-19 NG & RE PO RO	11-Jun-19 12-Sep-19 11-Jun-19 16-Aug-19 26-Jul-19 27-Jul-19 16-Jul-19 06-Sep-19 TROFITTINC AD (SHA TIN	NOISE BARRIE SECTION) mme (31/05/19)	RS ON TAI		NAW-2	Construct ELS & piling platfo	rm struct

MarkAmerika		Activity Name	Ouration	lemaining 3MRP Start Duration	OMRP Finisi	AP6 Start	AP6 Finish	May	Jun	2019	Jul	Aug	
BMD BMD <td>RETAINING W</td> <td>VALL NO.5</td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>-</td> <td></td> <td></td> <td>12</td> <td></td> <td>13</td> <td>14</td> <td></td>	RETAINING W	VALL NO.5		· · · · · · · · · · · · · · · · · · ·		-			12		13	14	
22,118_100 PRW_stars alls construction for Says 611 Day 003 64 64 24,0411 25,04111 25,04111 2	Z3_1218_100		36	35 05-Jul-19	22-Aug-19	27-May-19	12-Jul-19) D .					Dial of the
21,181_000 PWC_relations and construction for Bay 961 05 Bay 96 96 22.40p.10 02.40a.20 12.40.210 22.80p.11 22,121_2,000 PWC_solder pile will for Bay 601 05 Bay 61.400m1 30 00 17.4ap.10 31.40p.10 91.40p.10 22,121_2,000 PWC_solder pile will for Bay 701 10 Bay 705 (201) 35 05.2ap.20 17.4ap.10 17.4ap.10 17.4ap.10 17.4ap.10 22,121_2,000 PWC_solder pile will for Bay 701 10 Bay 705 (201) 35 05.2ap.20 17.4ap.10	Z3_1218_1010		64	64 31-Jul-19	28-Oct-19	20-Jun-19	17-Sep-19		-17	-			RW6_ELS
22.114_100, RWL b0.7 22.114_100, RWL b0.7 22.124_200, RWL b0.7	Z3_1218_102	20 RW6_retaining wall construction for Bay 601 to Bay		96 22-Aug-19	02-Jan-20	12-Jul-19	22-Nov-19						
RETAINED MALL NO.7 KWE_adder pills will for Bay 701 to Bay 705 (B20) 35 350 (29-Jul-19) 13-dap-19	Z3_1218_104	10 RW6_soldier pile wall for Bay 609 to Bay 614 (53nr)	30	30; 17-Jun-19	26-Jul-19	19-Apr-19			_				
Z4_1268_050 RWT_base state construction for Bay 701 & Bay 704 32 38 18 Aug. 10 01-02+19 21-Jun 18 05 Aug. 19 MODIFY DESTING REFARING WALL SAF State 10 01-02+19 21-Jun 18 05 Aug. 19 05 Aug. 19 State 11 State 11 State 11 State 11 25 Aug. 19 05 Aug. 19 05 Aug. 19 State 12 State 12 State 11 State 11 25 Aug. 10 05 Aug. 19 05 Aug. 19 State 12 State 12 State 11 State 11 25 Aug. 10 05 Aug. 19 05 Aug. 19 05 Aug. 19 State 12 State 12 State 12 State 11 25 Aug. 10 05 Aug. 19	RETAINING W	ALLNO.7			1	i						W6_soldier pile wal	Il for Bay 609 to
22,1218_060 RW7_Less side construction for By 701 A 5By 774 32 32 18-Aug-10 10-Oct 12 21-Jun 18 05-Aug-10 MODIFY COSTING RETAINING WALL SHA 28 25 55	Z3_1218_2040	0 RW7_soldier pile wall for Bay 701 to Bay 705 (62nr)	35	35 ¹ 29-Jul-19	13-Sep-19	131-May-19) 19- Jul-10				-		
NODIFY DOUSTING RETAINING WALL SR4 22,500 SPR_EL2 works for faxy SR401 to Bay SR401 25 25 30.44.19 28.402.19 31.402.19 22,500 SPR_EL2 works for faxy SR401 to Bay SR401 to Bay 40 40 40 40.40.19 26.402.19 16.424.19 22,500 SPR_ME SR401 to Bay SR401 to Bay 60 80.224.49.19 16.426.19 10.456.19 23,500 SPR_ME SR400 to Bay SR400 to Bay 22 22 22.400.19 10.456.19 10.456.19 23,500 Reading works 120 100 31.440.19 22.440.19 15.506.19 OPEC MOSTING SUBWIX HS30 120 120 131.440.19 22.440.19 15.506.19 OPEC MOSTING SUBWIX HS30 120 120 131.440.19 14.440.20 18.467.19 15.506.19 OPEC MOSTING SUBWIX HS30 120 120 120.441.19 27.440.19 16.440.20 18.467.19 15.440.20 21,1470 Construction Zone 4_NERG Construction 459 439.144.20 18.467.19 15.440.20 18.467.19 15.440.20 24,1470 Construction Zone 4_NERG Construction <	Z3_1218_2050	0 RW7_base slab construction for Bay 701 & Bay 704	i i i i i i i i i i i i i i i i i i i		1			1					
22,5070 SPA E, El averda for Bay Sh401 to Bay Sh405 25				- to mag to	i otroctria	21-001-19	100-AUG+19						
(907. [stag) (20 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
SP405		(90m_1 side)			28-Aug-19	31-May-19	02-Jul-19						SR4
SH405 SH405 22 24 27 16 27 16 27 16 27 16 27 16 20 16 22 22 22 24 44 16 27 27 20 16 16 27 44 16 27 27 20 16 16 27 27 20 16 16 27 27 20 16 16 27 27 20 16 16 27 28 28 28 28 28 28 28		SR405	40		16-Sep-19	31-May-19	19-Jul-19						
(607, 15,0) A. 22, 22-04,19 24-30,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 22-449,19 15-02-13 22-40-19 22-40-19 22-40-19 22-40-19 22-40-19 22-40-19 22-40-19 22-40-19 22-40-19 22-40-19 22-40-19 22-40-19		SR405	60 :	60/ 22-Aug-19	04-Nov-19	25-Jun-19	04-Sep-19		in the second se				-
23.500 Be-align evising subwey NS30 120 120 31-May-19 23-Oct-18 23-May-19 15-Oct-19 OPERK EEK FOOTBRIDGE NF40 AND NF66 (ZONE 4) NELEMINATE Sevence TALE MILLINE Sevence Construction Zone 4, Stage 1 Monthbound structure 207 207 20-May-19 16-Jan-20 Construction Zone 4, NF66 Construction 200 20 18-Jun-19 12-Mar-19 15-Jan-20 Construction Zone 4, NF66 Construction 200 20 18-Jun-19 12-Mar-19 15-Jan-20 Construction Zone 4, NF66 Construction 469 21-May-19 16-Agr-19 15-Jan-20 Construction Zone 4, NF60 Construction 469 21-May-19 16-Agr-19 23-Mov-20 Construction Zone 4, NF60 Construction 469 21-May-19 31-Jan-19 23-F60-19 Zone 4, NB tree failing works THEE FELLING/TRANPLANT Zation 4 20-Jun-19 31-Jan-19 23-F60-19 Zone 4, NB tree failing works 10 10-Qu-16-19 31-Jan-19 23-F60-19 Zone 4, NB tree failing works 10 10-Qu-16-19		(80m_1 side)	22	22 28-Aug-19	24-Sep-19	· 02-Jul-19	27-Jul-19			***			
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Z4_1360 UU 600 MORE DARREE AN FILE CAP AND FOOT NORTHBOUND Z4_1000 N4_ (21)	Fresh watermain for N4 CH2150-2200 77m mm DINESHENCLOBURE INC	Duration 5 40		26-Jun-19	02-Apr-19 07-May-19	AP6 Finish 08-Apr-19	May Jun 11 12	Jul Jul 13 UU_HKT-slaw cable for N4 &	Aug 14	Sep 15
Z4_1360 UU 600 MORE DARREE AN FILE CAP AND FOOT NORTHBOUND Z4_1000 N4_ (21)	Fresh watermain for N4 CH2150-2200 77m mm D. NEMHENCLOBURE INC ELS for footing construction N4-12 to N4-29 m. 2 side)		04 (1991)75007.	all all and the second	Contraction of the	08-Apr-19		13	14	Sep 15
24_1360 UU 600 MORE 9 ADREE 200 PLE CAP AND FOOT NORTHEOUND 24_1000 N4_ (23)	Fresh watermain for N4 CH2150-2200 77m mm DINESHENCLOBURE INC	40	04 - 6992954C-63	all all and the second	Contraction of the	00-101-13		1112 HICT-slow cable for NA 8		
NORTHBOUND 24_1000 N4_ (231	ELS for footing construction N4-12 to N4-29					24-Jun-19			NF66 CH2320-2360 40m	i i
NORTHBOUND 24_1000 N4_ (231	ELS for footing construction N4-12 to N4-29 m. 2 side)				Di Estato	Taremore		1	the second s	
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(231	m_Z side)						Verdenter Transformer View Contractor	4		
(231	m_Z side)	64	641 00 kil 40							
Cost and actively services	footing construction N4-12 to N4-29 (18nv)		64' 20-Jul-19	05-Oct-19	07-May-19				_	
-SHORE AND STRUC		126	126 17-Aug-19	18-Jan-20	05-Jun-19	04-Nov-19			_	
MODIFICATION WORK										-
NF40_1000 Cont	struct temporary staircase	60	60 31-May-19	10-Aug-19	01-Apr-19	; 17-Jun-19				
NF40_1010 Dam	olish existing staircase & part of existing facting	45	45 12-Aug-19	04-Oct-19	18-Jun-19	09-Aug-19	-		Construct	temporary staile
MODIFICATION WORK	KS FOR HERE			-					1000 C	-
NF66_1000 ELS	& 1st stage pile cap construction (CSD)	50	50: 18-Jun-19	16-Aug-19	: 18-Apr-10	22-Jun-19				
NF66_1010 Pile (cap construction (CSD)	35	35 16-Aug-19		1	-			ELS	& 1st stage pile i
			33_10•Aug-19	27-Sep-19	22-Jun-19	03-Aug-19				
PRO INVALES WO	EEN FOOTBRIDGE NF66 A	ND FO	D TAN ROAD	(ZONE 9	5)					
PREPARATORY WORK										
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TREE FELLING/TRAN	IPLANT					STATISTICS.				
Z5_1710 Zone	5_tree felling works	18	7 22-Jan-19 A	02-Jan-20	21-Sep-19	15-Oct-19				
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	an source reality works	30	13 22-Jan-19 A	07-Aug-20	15-Apr-20	22-May-20				

10-Jul-19

中國中鐵-中鐵一局-振華工程聯營 China Railway - China Railway First Group - Zhen Hua Engineering Joint Venture

PRELIMINARIE GENERAL SUBMISSIO SUB1115 Survey SUB1153 BIM Tre SUB1155 BIM Ex SUB1200 Hoardi SUB1343 TCSS SUB1347 Lift Ins SUB1403 ITP's fr SUB1405 All Ligi SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM rev	D17/05 Road Widening and ES & GENERAL REQUIRED PN ey of the Site eam Execution Plan ding Plan & Configuration Management stallation - Design Data for Lighting Luminaires and System ghting Designs pined Services Drawings (CSD)	l Retro	Duration fitting Noise offitting Noise <thoffitting noise<="" th=""> <thoffitt< th=""><th>Barriers</th><th>31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19</th><th></th><th>Jun 12</th><th>Jul 13 Survey of the Site BIM Team BIM Execution Plan Hoarding Plan TCSS Configuration Manage Lift Installation - Design Dat</th><th></th><th>Aug 14</th><th>Sep 15</th><th></th></thoffitt<></thoffitting>	Barriers	31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19		Jun 12	Jul 13 Survey of the Site BIM Team BIM Execution Plan Hoarding Plan TCSS Configuration Manage Lift Installation - Design Dat		Aug 14	Sep 15	
PRELIMINARIE GENERAL SUBMISSIO SUB1115 Survey SUB1153 BIM Te SUB1155 BIM Ex SUB1200 Hoardi SUB1343 TCSS SUB1343 TCSS SUB1403 ITP's fr SUB1405 All Ligi SUB1410 Combi DESIGN SUBM SUG DES1070 PM Co DES1090 PM rev	ES & GENERAL REQUIRED by of the Site ream Execution Plan ding Plan & Configuration Management stallation - Design Data for Lighting Luminaires and System ghting Designs bined Services Drawings (CSD) MISSION	0 0	0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19*	Barriers	31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19			 Survey of the Site BIM Team BIM Execution Plan Hoarding Plan TCSS Configuration Manage 				
PRELIMINARIE GENERAL SUBMISSIO SUB1115 Survey SUB1153 BIM Te SUB1155 BIM Ex SUB1200 Hoardi SUB1343 TCSS SUB1343 ITP's fr SUB1403 ITP's fr SUB1405 All Ligi SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	ES & GENERAL REQUIRED by of the Site ream Execution Plan ding Plan & Configuration Management stallation - Design Data for Lighting Luminaires and System ghting Designs bined Services Drawings (CSD) MISSION	0 0	0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19*		31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19			 BIM Team BIM Execution Plan Hoarding Plan TCSS Configuration Manage 				
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SUB1115 Survey SUB1153 BIM Te SUB1153 BIM Te SUB1200 Hoardi SUB1200 Hoardi SUB1343 TCSS SUB1347 Lift Ins SUB1403 ITP's fr SUB1405 AII LigI SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co	ey of the Site feam feam fixecution Plan fing Plan for Lighting Luminaires and System ghting Designs fined Services Drawings (CSD)	0 0 0 0 0 0 0 0	 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 		31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19			 BIM Team BIM Execution Plan Hoarding Plan TCSS Configuration Manage 				
SUB1153 BIM Te SUB1155 BIM Ex SUB1200 Hoardi SUB1343 TCSS SUB1347 Lift Ins SUB1403 ITP's fo SUB1405 AII Ligi SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	ieam ixecution Plan ixecution Plan img Plan Configuration Management stallation - Design Data for Lighting Luminaires and System ghting Designs ined Services Drawings (CSD)	0 0 0 0 0 0 0 0	 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 		31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19			 BIM Team BIM Execution Plan Hoarding Plan TCSS Configuration Manage 				
SUB1153 BIM Te SUB1155 BIM Ex SUB1200 Hoardi SUB1343 TCSS SUB1347 Lift Ins SUB1403 ITP's fi SUB1405 AII Ligi SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	ieam ixecution Plan ixecution Plan img Plan Configuration Management stallation - Design Data for Lighting Luminaires and System ghting Designs ined Services Drawings (CSD)	0 0 0 0 0 0 0 0	 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 30-Jun-19* 		31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19			 BIM Team BIM Execution Plan Hoarding Plan TCSS Configuration Manage 				
SUB1155 BIM EX SUB1200 Hoardi SUB1343 TCSS SUB1347 Lift Ins SUB1403 ITP's fr SUB1405 AII Ligi SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	Execution Plan ding Plan S Configuration Management stallation - Design Data for Lighting Luminaires and System ghting Designs ined Services Drawings (CSD)	0 0 0 0 0	0 30-Jun-19*		31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19			BIM Execution Plan Hoarding Plan TCSS Configuration Manage				
SUB1200 Hoardi SUB1343 TCSS SUB1347 Lift Ins SUB1403 ITP's fr SUB1405 All Ligi SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	ding Plan Configuration Management Stallation - Design Data for Lighting Luminaires and System ghting Designs bined Services Drawings (CSD) AISSION	0 0 0 0 0	0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19*		31-Mar-19 31-Mar-19 31-Mar-19 31-Mar-19			Hoarding Plan				
SUB1343 TCSS SUB1347 Lift Ins SUB1403 ITP's fr SUB1405 All Ligi SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	S Configuration Management stallation - Design Data for Lighting Luminaires and System ghting Designs ined Services Drawings (CSD) NISSION	0 0 0 0	0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19*		31-Mar-19 31-Mar-19 31-Mar-19			TCSS Configuration Manage				
SUB1343 TCSS SUB1347 Lift Ins SUB1403 ITP's fr SUB1405 All Ligi SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	S Configuration Management stallation - Design Data for Lighting Luminaires and System ghting Designs ined Services Drawings (CSD) NISSION	0 0 0 0	0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19*		31-Mar-19 31-Mar-19 31-Mar-19			TCSS Configuration Manage				
SUB1347 Lift Ins SUB1403 ITP's for SUB1405 All Ligt SUB1410 Combin DESIGN SUBM STRCR INTERCHANGE DES1070 PM Conductor	stallation - Design Data for Lighting Luminaires and System ghting Designs ined Services Drawings (CSD)	0	0 30-Jun-19* 0 30-Jun-19* 0 30-Jun-19*		31-Mar-19 31-Mar-19			• • • •				
SUB1403 ITP's from SUB1403 All Light SUB1405 All Light SUB1410 Combined Stream	for Lighting Luminaires and System ghting Designs ined Services Drawings (CSD)	0	0 30-Jun-19* 0 30-Jun-19*		31-Mar-19			♦ Lift Installation - Design Dat	a			
SUB1405 All Ligit SUB1410 Combin DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	anting Designs nined Services Drawings (CSD)	0	0 30-Jun-19*						1			1
SUB1405 All Ligit SUB1410 Combin DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	anting Designs nined Services Drawings (CSD)	0	0 30-Jun-19*					ITP's for Lighting Luminaire	and System			
SUB1410 Combi DESIGN SUBM STRCR INTERCHANGE DES1070 PM rev	nined Services Drawings (CSD)											
DESIGN SUBM STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev	AISSION	0	0 30-Jun-19*	1	31-Mar-19			All Lighting Designs				
STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev					31-Mar-19			Combined Services Drawing	s (ĊSD)			
STRCR INTERCHANGE DES1070 PM Co DES1090 PM rev												
DES1070 PM Co DES1090 PM rev	E MODIFICATION WORKS (Alternative Des											
DES1090 PM rev		sign)										
	onsent for Construction	28	2 06-Nov-18 A	01-Jul-19	20-Feb-19	19-Mar-19		PM Consent for Constructi	on			
	eview & comment	28	2 07-Dec-18 A	01-10-19	05-Oct-18	01-Nov-18		PM review & comment				·····
DES1110 PM Co	area a comment	20	2 07-Dec-10A	01-501-15	03-001-10	01-1100-10						
	onsent for Construction	28	28 02-Jul-19	30-Jul-19	29-Apr-19	26-May-19			PM Consent	t for Construction		
DES1140 Re-sub	ubmit Alternative Design of Bridges SR2 & SR5,	28	2 19-Feb-19 A	01-Jul-19	12-Apr-19	09-May-19		Re-submit Alternative Des	gn of Bridges SR	2 & SR5, Slab Wider	hing of SHA & Widenin	g of Bridge N2
	Widening of SHA & Widening of Bridge N262 onsent for Construction	28	28 01-Jul-19	29-Jul-19	22-Apr-19	20-May-19			BM Concent	for Construction		
DESTISO FINICO		20	20 01-301-19	29-Jui-19	22-Api-19	20-1viay-19				for Construction		
NOISE MITIGATION ME	EASURES											
DES1180 Re-sub	ubmit Foundation Design of Noise Mitigation	22	2 24-Nov-18 A	02-Jul-19	29-Jan-19	19-Feb-19		Re-submit Foundation De	sign of Noise Mit	igation Measures in I	Zones 1 & 2 w/Design	Certificate
	ures in Zones 1 & 2 w/Design Certificate onsent for Construction	28	00 00 141 10	20 141 10	04 Apr 10	00 May 10				-		
DESTI90 PM CO	onsent for Construction	28	28 02-Jul-19	30-Jul-19	04-Apr-19	02-May-19				for Construction		
DES1230 PM Co	onsent for Construction	28	10 02-Jan-19 A	09-Jul-19	31-Jan-19	27-Feb-19		PM Consent for C	onstruction			
DES1240 Prepar	are & submit Foundation Design of Mitigation	21	2 26-Nov-18 A	02-Jul-19	31-Dec-18	20-Jan-19		Prepare & submit Founda	ion Desian of Mi	tigation Measures in	Zone 3 w/Design Certi	ficate
Measu	ures in Zone 3 w/Design Certificate									-	g	
DES1250 PM rev	eview & comment	28	28 02-Jul-19	30-Jul-19	05-Apr-19	02-May-19			PM review 8	& comment		
	ubmit Foundation Design of Noise Mitigation	23	23 31-Jul-19	23-Aug-19	04-May-19	26-May-19				Re-sub	mit Foundation Desigr	1 of Noise Miti
Measu	ures in Zone 3 w/Design Certificate											
									Dete	Devision	Ohaali	A
Remaining L	Level of Effort Remaining	g Work	ROA	D WIDEN	IING & RI	ETROFITT	ING NOISE	BARRIERS ON TAI	Date			Approve
Actual Level	l of Effort Critical Re	emaining	Work		PO RC	DAD (SHA	TIN SECTIO	ON)	08-Jul-19	3MRP DWP 19	006 Tim	L
Primary Bas	seline 🔷 🔷 Milestone	-		3 1	Months R	olling Pro	gramme (30	0/06/19)				
Actual Work						Page 1		,				

Activity ID	Activity Name	Original		3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	-	•	2019			•
		Duration	Duration					Jun 12	Jul 13	Aug 14		Sep 15	Oct 16
DES1270	PM Consent for Construction	28	28	23-Aug-19	20-Sep-19	27-May-19	23-Jun-19	12	10	14		10	PM Consent for C
DES1280	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 1 & 2 w/Design	21	1	14-Jan-19A	03-Jul-19	05-Feb-19	25-Feb-19		Prepare & submit Super	structure Design of Nois	se Mitigation Mea	asures in Zones 1 & 2	2 w/Design Certific
DES1290	PM review & comment	28	28	03-Jul-19	31-Jul-19	08-Apr-19	05-May-19			PM review & com	nment		
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design	20	20	01-Aug-19	21-Aug-19	07-May-19	26-May-19					Superstructure Desig	on of Noise Mitigati
DES1310	PM Consent for Construction	28	28	21-Aug-19	18-Sep-19	27-May-19	23-Jun-19						M Consent for Con
DES1320	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	16	20-Mar-19 A	19-Jul-19	08-Apr-19	28-Apr-19		Prepar	e & submit Superstructu	ure Design of Noi	se Mitigation Measu	res in Zone 3 w/De
DES1330	PM review & comment	28	28	19-Jul-19	16-Aug-19	26-Apr-19	24-May-19				PM review & con	nment	
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	17-Aug-19	07-Sep-19	25-May-19	15-Jun-19			0		Re-submit Su	perstructure Desig
DES1350	PM Consent for Construction	28	28	07-Sep-19	05-Oct-19	15-Jun-19	13-Jul-19						P
DES1360	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	21	16	20-Mar-19 A	04-Aug-19	26-Apr-19	17-May-19			Prepare & su	bmit Superstruct	ure Design of Noise	Mitigation Measure
DES1370	PM review & comment	28	28	04-Aug-19	01-Sep-19	15-May-19	12-Jun-19					PM review & comme	ent
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	20	20	02-Sep-19	22-Sep-19	13-Jun-19	03-Jul-19				1		Re-submit Supe
DES1390	PM Consent for Construction	28	28	22-Sep-19	20-Oct-19	03-Jul-19	31-Jul-19			—			
REMAINING W	ORKS												
DES1430	PM Consent for Construction	28	11	11-Jan-19 A	11-Jul-19	04-Mar-19	31-Mar-19		PM Consent for	Construction			
DES1460	Re-submit Foundation Design of Footbridge NF40 & NF66 w/Design Certificate	35	30	13-Apr-19 A	29-Jul-19	06-Apr-19	10-May-19			Re-submit Foundati	ion Design of Fo	otbridge NF40 & NF6	6 w/Design Certifi
DES1470	PM Consent for Construction	28	28	29-Jul-19	26-Aug-19	11-May-19	07-Jun-19				PMC	onsent for Constructi	on
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign	21	5	26-Nov-18 A	04-Jul-19	31-Dec-18	20-Jan-19		Prepare & submit Foun	dation Design of Pedes	trian Lift 1 & 2, Li	ft 2 Staircase, Cycle	Track Ramp & Sig
DES1490	PM review & comment	28	28	05-Jul-19	01-Aug-19	05-Apr-19	02-May-19			PM review & co			
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry	35	35	03-Aug-19	06-Sep-19	04-May-19	07-Jun-19					Re-submit For	undation Design of
DES1510	PM Consent for Construction	28	28	07-Sep-19	04-Oct-19	08-Jun-19	05-Jul-19						PN
DES1530	PM review & comment	28	1	02-Jan-19 A	30-Jun-19	31-Jan-19	27-Feb-19		PM review & comment				
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	30-Jun-19	02-Apr-19	03-May-19		Re-submit Design of Water	main & Irrigation System	m w/Design Certi	ficate	
DES1550	PM Consent for Construction	28	28	21-Jan-19 A	28-Jul-19	04-May-19	31-May-19			PM Consent for Con	struction		
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	30-Jun-19	03-Aug-19	31-Mar-19	04-May-19			Prepare & sub	omit Design of E8	M System (E&M & R	oad Lighting) w/De
DES1570	PM review & comment	28	28	04-Aug-19	31-Aug-19	05-May-19	01-Jun-19					PM review & comme	nt
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	02-Sep-19	03-Oct-19	03-Jun-19	04-Jul-19				ſ		Re-
	FING & PROCUREMENT SCHE	DULE											
SUBLETTING													
SPS1000	Maintenance of Traffic Flow	30	30	30-Jun-19	29-Jul-19	31-Mar-19	29-Apr-19			Maintenance of Tra	ffic Flow		
 XXXXXX Rem	aining Level of Effort Effort Remainir	na Work		BOA				ING NOISE BA	RRIERS ON TAI	Date	Revision	Check	Approved
	al Level of Effort Critical R	-						TIN SECTION)		08-Jul-19 3MF	RP DWP 190	6 Tim	
	ary Baseline \diamond \diamond Milestone		9 10 011		2 1		•	gramme (30/06					
	•				3 1		•	•	(5)				
Actu	al Work \blacklozenge \blacklozenge Baseline	Mileston	е				Page 2	! of 8					
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ctivity ID	Activity Name	Original		3MRP Finish	AP6 Start	AP6 Finish		1	2019	1	
		Duration	Duration				Jun 12	Jul 13	Aug 14	Sep 15	Oct 16
SPS1010	Electronic Document Management System (EDMS) for the use of the Project Manager	30	0 18-Oct-18 A	30-Jun-19*	31-Dec-18	29-Jan-19		Electronic Document Manage	ment System (EDMS) for the use of	the Project Manager	
SPS1030	Hoarding and Signboard	30	30 30-Jun-19	29-Jul-19	31-Mar-19	29-Apr-19			Hoarding and Signboard		
SPS1040	Survey of the Site	30	30 30-Jun-19	29-Jul-19	31-Mar-19	29-Apr-19			Survey of the Site		
SPS1060	Security System of the Site	30	30 30-Jun-19	29-Jul-19	31-Mar-19	29-Apr-19			Security System of the Site	1 1 1 1	
SPS1090	Building Information Model (BIM)	30	0 12-Mar-19 A	14-Jun-19 A	31-Mar-19	29-Apr-19	Building Informa	tion Model (BIM)			
SPS1140	Site Clearance and Demolition Work	30	30 01-Jul-19	30-Jul-19	07-Apr-19	06-May-19			Site Clearance and Demolition W	lork	
SPS1160	Monitoring and Instrumentation	30	30 01-Jul-19	30-Jul-19	07-Apr-19	06-May-19			Monitoring and Instrumentation		
SPS1170	Piling Works and Pile Testing	30	1 21-Dec-18 A	30-Jun-19	28-Feb-19	29-Mar-19		Piling Works and Pile Testing	3		
SPS1200	Waterwork (Pipework)	30	30 30-Jun-19	29-Jul-19	31-Mar-19	29-Apr-19			Waterwork (Pipework)		
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30 29-Aug-19	27-Sep-19	31-May-19	29-Jun-19				· • •	Drainage
SPS1220	CCTV for Drainage Pipe	30	30 30-Jun-19	29-Jul-19	01-Apr-19	30-Apr-19			CCTV for Drainage Pipe		
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30 30-Jun-19	29-Jul-19	31-Mar-19	29-Apr-19			Reinforced Concrete Work for Re	taining Walls	
SPS1250	Reinforced Concrete Work for Noise Mitigation	30	30 30-Jun-19	29-Jul-19	31-Mar-19	29-Apr-19			Reinforced Concrete Work for No	ise Mitigation Measures	
SPS1260	Measures Reinforced Concrete Work for Bridge Work	30	30 30-Jul-19	29-Aug-19	28-Apr-19	28-May-19				Reinforced Concrete Work for	or Bridge Wo
SPS1280	Reinforced Concrete Work for Footbridge NF40 &	30	30 17-Aug-19	16-Sep-19	23-May-19	22-Jun-19				 	1
SPS1290	NF66 Steelwork for NB and Lift Tower	30	30 24-Jul-19	22-Aug-19	24-Apr-19	23-May-19	-		Steelwo	rk for NB and Lift Tower	
SPS1310	Bearing and Movement Joint	30	30 31-Jul-19	29-Aug-19	01-May-19	31-May-19				Bearing and Movement Joint	
SPS1320	Tendon Works	30	30 31-Jul-19	29-Aug-19	01-May-19	31-May-19				Tendon Works	
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve &	30	30 06-Aug-19	04-Sep-19	02-May-19	31-May-19	-				ENM De
	Signature)				-					Pedestrian Lift (Lift Ca	
SPS1420	Lighting System for Noise Mitigation Measures	30	30 19-Aug-19	18-Sep-19	12-Jul-19	10-Aug-19	-				g System for
SPS1440	Drainage for Noise Mitigation Measures	30	30 19-Aug-19	18-Sep-19	12-Jul-19	10-Aug-19				Draina	ge for Noise I
SPS1460	Waterproofing (Bitumen Paint)	30	30 30-Jun-19	29-Jul-19	06-Apr-19	05-May-19		:	Waterproofing (Bitumen Paint)		
	ETWEEN SHING MUN TUNNEL	.S RO	AD AND FOOT	BRIDG	E NF71/	A (ZON					
PRELIMINAR											
TEMPORARY	TRAFFIC ARRAGEMENT										
TTA PERIOD)										
Z1_1410	Construction Zone 1_Stage 1 Northbound R1 structure	300	300 27-Jul-19	31-Jul-20	19-Jun-19	20-Jun-20			*****	*****	
Z1_1430	Construction Zone 1_Stage 1 Central Barrier structure	303	303 19-Sep-19	25-Sep-20	12-Aug-19	18-Aug-20					******
PREPARATO	RYWORKS				,						
TREE FELLI	NG/TRANPLANT										
Actu	maining Level of Effort Remaining ual Level of Effort Critical R mary Baseline \diamond \diamond Milestone	emaining e	g Work		PO RC	OAD (SHA colling Pro	TIN SECTION) ogramme (30/06		Date Revision 08-Jul-19 3MRP DWP 19		oproved
Actu	ual Work	Milestone	e			Page 3	3 of 8				

Acti	vity ID	Activity Name				3MRP Finish	AP6 Start	AP6 Finish	Jun	Jul	2019	Aug	Sep	Oct
			Duration	Duration					12	13		14	15	16
	Z1_1290	Zone 1_tree felling works	18	10	25-Jan-19 A	12-Jul-19	11-Mar-19	01-Apr-19		Zone 1_tree f	elling works	1		
	MODIFICATION	EXISTING ROAD/TEMPORARY ROAD												
	Z1_1270	Zone 1-1_construct temporary road platform along Northbound for R1	60	60	27-Jul-19	09-Oct-19	19-Jun-19	28-Aug-19		1 1 1 1	1			
ľ	UTILITIES DIVER		8		1	1								
	CENTRAL BAR	RIER												
	Z1_1300	UU_CLP-abandoned 33kv cable for RSE1 CH1190-1300 110m	20	20	09-Sep-19	04-Oct-19	02-Aug-19	24-Aug-19						UU
	NOISE BARRIE	R AND SEMI-ENCLOSURE												
	PILE FOUNDATI	ION WORKS												
	CENTRAL BAR	RIER												
	Z1_1490	RSE1_site investigation for RSE1-01P to 03P (6nr)	15	15	19-Sep-19	09-Oct-19	12-Aug-19	28-Aug-19		 				
	WORK BE	TWEEN FOOT BRIDGE NF71	A AND		INE PL	AZA (ZO	NE 2)							
	PRELIMINARIES						,							
	TEMPORARYTE	RAFFIC ARRAGEMENT												
	TTA PERIOD													
	Z2_1260	Construction Zone 2_Stage 1 Central Barrier	518	518	10-Jul-19	08-Apr-21	31-May-19	25-Feb-21			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ŀ	PREPARATORY	structure WORKS								1 		· · · · · · · · · · · · · · · · · · ·		
	TREE FELLING	:/TRANPLANT												
	Z2 1220	Zone 2_tree felling works	18	7	19-Feb-19 A	10-Jul-19	24-Jan-20	17-Feb-20						
		EXISTING ROAD/TEMPORARY ROAD												
	Z2 1230	Zone 2-1_construct temporary road platform along	60	60	10-Jul-19	19-Sep-19	31-May-19	10-Aug-19						Zone 2-1_construct
		Southbound R AND SEMI-ENCLOSURE												
	_													
	PILE FOUNDATI													
	CENTRAL BAR													
	Z2_1000	RSE2_site investigation for RSE2-13P & 15P (30nr)	50		19-Sep-19	19-Nov-19	12-Aug-19	11-Oct-19		· · ·				
		TWEEN CITYLINE PLAZA AND	D FOC	OTBRI	DGE NF4	40 (ZON	E 3)							
	PRELIMINARIES													
	TEMPORARYTE													
	TTA PERIOD													
	Z3_3270	Construction period of Zone 3a_1	337	337	02-Jul-19	17-Aug-20	17-Apr-19	20-May-20		·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	******	~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Z3_3340	Construction period of Zone 3c_1	340	340	02-Jul-19	20-Aug-20	22-May-19	30-May-20		KXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	*****	*****
		ining Level of Effort Remainin		1	BOA						Date	Revision	Check	Approved
					RUA				TING NOISE BAR		08-Jul-19	3MRP DWP 190		1
		I Level of Effort Critical Re		y work				-	TIN SECTION)	(10)		•		·
		ry Baseline \diamond \diamond Milestone				3 N	ionths H	•	ogramme (30/06/	(19)				
	Actua	I Work	Milestor	ie				Page 4	1 of 8					
					1						1			

Activity ID	Activity Name	Original Remainin	g 3MRP Start	3MRP Finish	AP6 Start	AP6 Finish			2019		
		Duration Duratio					Jun 12	Jul 13	Aug 14	Sep 15	Oct 16
Z3_3400	Construction period of Zone 3b_1	296 29	6 29-Aug-19	28-Aug-20	30-May-19	30-May-20	12	13			XXXXXXXXXXX
PREPARATOR	RYWORKS						_				• • • • • • • • • • • • • • • • • • •
TREE FELLIN	NG/TRANPLANT										
Z3_2800	Zone 3_tree felling works	18	1 22-Jan-19A	02-Jul-19	25-Feb-19	16-Mar-19		Zone 3_tree felling works			
BRIDGE AND	STRUCTURE WORKS										
PRELIMINARI											
PRELIMINARI	ES WORKS										
UTILITIES DIV	VERSION										
NORTHBOU	IND										
Z3 2910	UU CLP-abandoned 11kv cable for RW6	13 1	3 02-Jul-19	16-Jul-19	03-Apr-19	18-Apr-19	-	UU CLP-a	bandoned 11kv cable for RW6 CH16	75-1725 50m	
	CH1675-1725 50m				· ·					i i •	
Z3_2920	UU_HKT-diversion cable for RW7 CH1830-2000 170m	34 3	84 19-Jul-19	27-Aug-19	16-Apr-19	31-May-19			U	LHKT-diversion cable fo	r RW7 CH1830-
Z3_2930	UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m	22 2	2 02-Aug-19	27-Aug-19	04-May-19	31-May-19			U	_CLP-abandoned 11kv c	able for RW7 &
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23 2	23 02-Aug-19	29-Aug-19	03-May-19	31-May-19	-			UU_Fresh watermain for	SR4 17βm 200m
SOUTHBOU											
										<u> </u>	
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127 12	27 02-Jul-19	29-Nov-19	01-Apr-19	04-Sep-19				1	
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 CH1710-1950 240m	35 3	85 20-Jul-19	29-Aug-19	24-Apr-19	05-Jun-19				UU_CLP-abandoned 11kv	cable for SR2 8
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263	51 5	51 02-Jul-19	29-Aug-19	01-Apr-19	05-Jun-19				UU_GAS-diversion LP pi	pe for SR2 & N2
Z3 3070	CH1640-1850 210m UU HKT-diversion cable for SR2 & N263	39 3	89 16-Jul-19	29-Aug-19	16-Apr-19	05-Jun-19				UU HKT-diversion cable	for SB2 & N263
	CH1630-1840 210m						-			-	
Z3_3110	UU_GAS-diversion LP pipe for N263 CH1825-1960 135m	38 3	88 17-Jul-19	29-Aug-19	17-Apr-19	05-Jun-19				UU_GAS-diversion LP pi	pe for N263 CH1
Z3_3120	UU_Fresh watermain for Staircase & N263 150PE	23 2	23 23-Sep-19	21-Oct-19	29-Jun-19	26-Jul-19				•	
WIDENING FO	PR NORTH HOLLOW ABUTMENT (N264)	<u> </u>									
Z3_4200	C01 ELS & footing construction	45 4	l5 02-Jul-19	22-Aug-19	05-Apr-19	04-Jun-19				S & footing construction	
				-	•						
Z3_4210	C01_cloumn construction	40 4	10 23-Aug-19	11-Oct-19	04-Jun-19	23-Jul-19					
Z3_4220	N264_modification existing MTRC fencing for deck	60 6	00 02-Jul-19	09-Sep-19	05-Apr-19	22-Jun-19				N264_modific	ation existing M
Z3_4240	widening N264_temporary protection MTRC cable	45 4	15 23-Aug-19	17-Oct-19	04-Jun-19	29-Jul-19	-	- - 	-		
	N OF BRIDGE N263										
RECONSTRU	JCTION ABUTMENT WALL AT NHA										
Z3_4100	Demolish part of existing NHA wall for construction	60 6	0 02-Jul-19*	09-Sep-19	17-Apr-19	03-Jul-19				Demolish par	t of existing NHA
Z3_4110	new wall NAW-1_construct ELS & piling platform	42 4	2 02-Jul-19*	19-Aug-19	17-Apr-19	11-Jun-19			NAW-1 co	hstruct ELS & piling platfo	orm
					•		-				
Z3_4120	NAW-1_piling works for new NHA wall 5nr 1.5m bored pile	70 7	70 29-Aug-19	22-Nov-19	12-Jun-19	02-Sep-19			–		
Z3_4150	NAW-2_construct ELS & piling platform	42 4	2 02-Jul-19	19-Aug-19	17-Apr-19	11-Jun-19			NAW-2_cc	nstruct ELS & piling platfo	orm
	· · · · · · · · · · · · · · · · · · ·								Date Revisior	Check	Approved
	naining Level of Effort Remainin	•						RRIERS ON TAI	08-Jul-19 3MRP DWP 19		, ppi oveu
Actu		emaining Work				-	TIN SECTION)				
Prim	nary Baseline \diamond \diamond Milestone	e		3 N	Nonths R		ogramme (30/06	j/19)			
Actu	al Work	Milestone				Page	5 of 8				
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			•								

Activity ID	Activity Name	Original	emaining 3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	-	I	2019		
		Duration	Duration				Jun 12	Jul 13	Aug 14	Sep 15	Oct 16
Z3_4160	NAW-2_piling works for new NHA wall 4nr 1.5m bored pile	56	56 29-Aug-19	06-Nov-19	12-Jun-19	16-Aug-19				-	
MODIFICATION	EXISTING PIER WALL OF N263										
Z3_3870	SAW-1_piling works for new NHA wall 3nr 1.5m bored pile	42	42 30-Aug-19	21-Oct-19	06-Jun-19	26-Jul-19					
MODIFICATION	EXISTING SOUTH HOLLOW ABUTMENT WALL										
Z3_3950	SHA_piling works for pier SHA6 nos. Socket H-pile	48	48 29-Aug-19	28-Oct-19	30-May-19	27-Jul-19					
RETAINING WAL	L & SUBWAY			1							
RETAINING WA	LLNO.1										
Z3_4550	RW1_demolish existing retaining structure between	45	45 02-Jul-19	22-Aug-19	22-May-19	16-Jul-19			RW1_d	emolish existing retaining	structure betw
Z3_4600	Bay 101 and Bay 104 RW1_demolish existing retaining structure between	45	45 23-Aug-19	17-Oct-19	16-Jul-19	06-Sep-19					
RETAINING WA	Bay 105 and Bay 107 LLNO.6										
73 1218 1000	RW6_ELS works for Bay 601 to Bay 608 (62m_2	35	35 05-Aug-19	20-Sep-19	27-May-19	12-Jul-19		1		B	W6_ELS works
.	side)		-		-						
	RW6_base slab construction for Bay 601 to Bay 608		64 29-Aug-19	26-Nov-19	20-Jun-19	17-Sep-19					
	RW6_retaining wall construction for Bay 601 to Bay 608	96	96 20-Sep-19	31-Jan-20	12-Jul-19	22-Nov-19					
Z3_1218_1040	RW6_soldier pile wall for Bay 609 to Bay 614 (53nr)	30	30 17-Jul-19	27-Aug-19	19-Apr-19	31-May-19			RV	/6_soldier pile wall for B	ay 609 to Bay 6
RETAINING WA	LLNO.7										
Z3_1218_2040	RW7_soldier pile wall for Bay 701 to Bay 705 (62nr)	35	35 28-Aug-19	15-Oct-19	31-May-19	19-Jul-19			_		
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	32 18-Sep-19	31-Oct-19	21-Jun-19	06-Aug-19					
MODIFY EXISTI	NG RETAINING WALL SR4										
Z3_5070	SR4_ELS works for Bay SR401 to Bay SR405	25	25 29-Aug-19	28-Sep-19	31-May-19	02-Jul-19					SR4_EL
Z3_5080	(90m_1 side) SR4_base slab construction for Bay SR401 to Bay	40	40 29-Aug-19	18-Oct-19	31-May-19	19-Jul-19					
Z3_5090	SR405 SR4_retaining wall construction for Bay SR401 to	60	60 23-Sep-19	04-Dec-19	25-Jun-19	04-Sep-19				_	
MODIFY EXISTI	SR405 NG SUBWAY NS30										
Z3_5200	Re-align existing subway NS30	120	120 02-Jul-19	21-Nov-19	22-May-19	15-Oct-19			_		
WORK BE	TWEEN FOOTBRIDGE NF40		-66 (ZONE 4)								
PRELIMINARIES											
TEMPORARYTR											
TTA PERIOD											
Z4 1390	Construction Zone 4 Stage 1 Northbound structure	207	207 31-Jul-19	08-Apr-20	07-May-19	14-Jan-20					
Z4_1470	Construction Zone 4_NF66 Construction	220	220 18-Jul-19	15-Apr-20	18-Apr-19	15-Jan-20			*****	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Z4_1480	Construction Zone 4_NF40 Construction	489	489 02-Jul-19	20-Feb-21	01-Apr-19	23-Nov-20			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	~~~~~~
24_1400		409	403 02-00-19	20-1 00-21	01-Api-19	23-1100-20					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Actual	ining Level of Effort Remainir Level of Effort Critical R ry Baseline \diamond \diamond Milestone Work \diamond Baseline	emaining e	Work		PO RC	AD (SHA	TIN SECTION) gramme (30/0		Date Revision 08-Jul-19 3MRP DWP 190		Approved
Actual	Work	Milestone				Page 6	of 8				

Activity ID	Activity Name	Original	Remaining 3MRP Start	3MRP Finish	AP6 Start	AP6 Finish			2019			
riourity in		Duration	Duration				Jun 12	Jul 13		Aug 14	Sep 15	Oct 16
PREPARATOR	RY WORKS	I					. 12	13		14	15	10
	NG/TRANPLANT											
Z4_1320	Zone 4_NB tree felling works	18	0 25-Jan-19 A	29-Jun-19 A	31-Jan-19	23-Feb-19		Zone 4_NB tree felling works				
UTILITIES DIV	VERSION											
NORTHBOU	ND											
Z4_1270	UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m (Abandoned)	0	0 31-Jul-19	31-Jul-19	07-May-19	07-May-19			UU_CLP-a	bandoned 33kv cable	for N4 CH2100-2350 2	250m (Abandoned)
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25 02-Jul-19	30-Jul-19	02-Apr-19	06-May-19			UU_CATV-	slew cable for N4 CH2	190-2400 210m	
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6	0	0 31-Jul-19	31-Jul-19	07-May-19	07-May-19			UU_CLP-a	bandoned 33kv cable	for N4&SE6 CH2150-2	2160 20m (Abandor
Z4_1300	CH2150-2160 20m (Abandoned) UU_HKT-slew cable for N4 & NF66 CH2320-2360	5	5 02-Jul-19	06-Jul-19	02-Apr-19	08-Apr-19		UU_HKT-slew cable	or N4 & NF66 C	H2320-2360 40m		
Z4_1360	40m UU_Fresh watermain for N4 CH2150-2200 77m	40	40 31-Jul-19	16-Sep-19	07-May-19	24-Jun-19					UU_	_Fresh watermain
NOISE BARRI	600mm IER AND SEMI-ENCLOSURE											
PILE CAP AND												
NORTHBOUI	ND											
Z4_1000	N4_ELS for footing construction N4-12 to N4-29 (231m 2 side)	64	64 31-Jul-19	16-Oct-19	07-May-19	23-Jul-19						
Z4_1010	N4_footing construction N4-12 to N4-29 (18nr)	126	126 28-Aug-19	01-Feb-20	05-Jun-19	04-Nov-19						
BRIDGE AND	STRUCTURE WORKS	1 I.										
MODIFICATIO	N WORKS FOR NF40											
NF40 1000	Construct temporary staircase	60	60 02-Jul-19	09-Sep-19	01-Apr-19	17-Jun-19					Construct to	emporary staircase
NF40 1010	Demolish existing staircase & part of existing footing	45	45 10-Sep-19	04-Nov-19	18-Jun-19	09-Aug-19						
	N WORKS FOR NF66					Ĵ Ĵ						
NF66 1000	ELS & 1st stage pile cap construction (CSD)	50	50 18-Jul-19	16-Sep-19	18-Apr-19	22-Jun-19					FLO	
					· · ·						ELS	S & 1st stage pile c
NF66_1010	Pile cap construction (CSD)	35	35 16-Sep-19	29-Oct-19	22-Jun-19	03-Aug-19						
	ETWEEN FOOTBRIDGE NF66	AND FO	O TAN ROAD	(ZONE 5	5)							
PRELIMINARI	IES WORKS											
PREPARATOR	RYWORKS											
TREE FELLIN	NG/TRANPLANT											
Z5_1710	Zone 5_tree felling works	18	7 22-Jan-19A	17-Jan-20	21-Sep-19	15-Oct-19					•	
PORTION	NE (ZONE 5)											
PRELIMINARI												
PREPARATOR												
FREPARATOR												
Ren	naining Level of Effort	ng Work	BOAI		ING & R	ETROFITI	ING NOISE BA	RRIERS ON TAI	Date	Revision	Check	Approved
	ual Level of Effort Critical R	-	-			-	TIN SECTION)		08-Jul-19	3MRP DWP 190	06 Tim	
	nary Baseline \diamond \diamond Milestone	-	-	3 1		-	ogramme (30/06					
	ual Work	-	<u> </u>			Page 7	-	··· ·· · · ·				
		WIIICS(UTIC	,			i aye i						

Activity ID	Activity Name	Original	Remaining	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish					
		Duration	Duration					Jun	Jul	Aug	Sep	Oct
								12	13	14	15	16
TREE FELL	ING/TRANPLANT											
Z5E_1140	Portion E_tree felling works	30	12	22-Jan-19 A	21-Aug-20	15-Apr-20	22-May-20					

Remaining Level of Effort		Remaining Work	ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI	Date	Revision	Check	Approved
Actual Level of Effort		Critical Remaining Work	PO ROAD (SHA TIN SECTION)	08-Jul-19	3MRP DWP 1906	Tim	
		ũ	· · · · · · · · · · · · · · · · · · ·		-		
Primary Baseline	\diamond	♦ Milestone	3 Months Rolling Programme (30/06/19)				
Actual Work	•	 Baseline Milestone 	Page 8 of 8				

08-Aug-19

中國中鐵-中鐵一局-振華工程聯營 China Railway - China Railway First Group - Zhen Hua Engineering Joint Venture

											NI
		Duration Durat	ion				Jul 13	Aug 14	Sep 15	Oct 16	Nov 17
	NE/2017/05 Road Widening and	d Retrofitti	na Noise	Barriers	on Tai		10		10	10	
	ARIES & GENERAL REQUIRE			Darriore	on rai						
GENERAL SU											
SUB1155	BIM Execution Plan	0	0 31-Jul-19*	1	31-Mar-19			BIM Execution Plan			
SUB1200	Hoarding Plan	0	0 31-Jul-19*		31-Mar-19			Hoarding Plan			
SUB1343	TCSS Configuration Management	0	0 31-Jul-19*		31-Mar-19			TCSS Configuration Mana	nemeht		
SUB1347	Lift Installation - Design Data	0	0 31-Jul-19*		31-Mar-19			Lift Installation - Design Da			
	-										
SUB1403	ITP's for Lighting Luminaires and System	0	0 31-Jul-19*		31-Mar-19			ITP's for Lighting Luminair	es and System		
SUB1405	All Lighting Designs	0	0 31-Jul-19*		31-Mar-19			All Lighting Designs			
SUB1410	Combined Services Drawings (CSD)	0	0 31-Jul-19*		31-Mar-19			Combined Services Drawi	ngs (CSD)		
DESIGN	SUBMISSION										
STRCR INTER	CHANGE MODIFICATION WORKS (Alternative De	esign)									
DES1070	PM Consent for Construction	28	1 06-Nov-18 A	01-Aug-19	20-Feb-19	19-Mar-19		PM Consent for Construc	tion		
DES1110	PM Consent for Construction	28	22 03-Apr-19 A	22-Aug-19	29-Apr-19	26-May-19		PM	I Consent for Construction		
DES1150	PM Consent for Construction	28	22 03-May-19 A	22-Aug-19	22-Apr-19	20-May-19		PM	I Consent for Construction		
NOISE MITIGA	TION MEASURES										
DES1190	PM Consent for Construction	28	14 25-Jun-19A	13-Aug-19	04-Apr-19	02-May-19		PM Consent	t for Construction		
DES1230	PM Consent for Construction	28	6 02-Jan-19A	05-Aug-19	31-Jan-19	27-Feb-19		PM Consent for Cons	struction		
DES1240	Prepare & submit Foundation Design of Mitigation	21	1 26-Nov-18 A	01-Aug-19	31-Dec-18	20-Jan-19		Prepare & submit Founda	tion Design of Mitigation Measures i	n Zone 3 w/Design Certif	icate
DES1250	Measures in Zone 3 w/Design Certificate PM review & comment	28	28 01-Aug-19	29-Aug-19	05-Apr-19	02-May-19			PM review & comment		
DES1260	Re-submit Foundation Design of Noise Mitigation	23	23 30-Aug-19	22-Sep-19	04-May-19	26-May-19			Be-su	Jubmit Foundation Design of	of Noise Mitiga
DES1270	Measures in Zone 3 w/Design Certificate PM Consent for Construction	28	28 22-Sep-19	20-Oct-19	27-May-19	23-Jun-19					PM Consent for
					· · ·						
DES1280	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 1 & 2 w/Design	21	1 14-Jan-19A		05-Feb-19	25-Feb-19		Prepare & submit Supers	structure Design of Noise Mitigation	Measures in Zones 1 & 2	w/Design Certi
DES1290	PM review & comment	28	28 02-Aug-19	30-Aug-19	08-Apr-19	05-May-19			PM review & comment		
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design	20	20 31-Aug-19	20-Sep-19	07-May-19	26-May-19				mit Superstructure Design	-
DES1310	PM Consent for Construction	28	28 20-Sep-19	18-Oct-19	27-May-19	23-Jun-19				PM	I Consent for Co
DES1320	Prepare & submit Superstructure Design of Noise	21	15 20-Mar-19 A	16-Aug-19	08-Apr-19	28-Apr-19		Prepare a	& submit Superstructure Design of N	ose Mitigation Measures	in Zone 3 w/De
	Mitigation Measures in Zone 3 w/Design Certificate							i	i	<u>i</u>	<u> </u>
XXXXX Rem	aining Level of Effort Remainir	na Work				ETRACITT		BARRIERS ON TAI	Date Revisio	on Check	Approved
	5	emaining Worl					TIN SECTIO		08-Aug-19 3MRP DWP 1	1907 Tim	
	ary Baseline \diamond \diamond Milestone	0	`	3 1		-	gramme (31	-			
	al Work \blacklozenge \blacklozenge Baseline			31		Page 1	•	101113)			

ivity ID	Activity Name	Original		3MRP Start	3MRP Finish	AP6 Start	AP6 Finish			2019	-	
		Duration	Duration					Jul 13	Aug 14	Sep 15	Oct 16	Nov 17
DES1330	PM review & comment	28	28	16-Aug-19	13-Sep-19	26-Apr-19	24-May-19			PM review & cor	nment	
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	14-Sep-19	05-Oct-19	25-May-19	15-Jun-19				Re-submit Supe	rstructure Desigr
DES1350	PM Consent for Construction	28	28	05-Oct-19	02-Nov-19	15-Jun-19	13-Jul-19	<u> </u>				PM
DES1360	Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	21	15	20-Mar-19 A	31-Aug-19	26-Apr-19	17-May-19			Prepare & submit Superstructu		
DES1370	PM review & comment	28	28	31-Aug-19	28-Sep-19	15-May-19	12-Jun-19	-		; 	PM review & comment	
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design	20	20	29-Sep-19	19-Oct-19	13-Jun-19	03-Jul-19	-		-	F	Re-submit Supers
DES1390	PM Consent for Construction	28	28	19-Oct-19	16-Nov-19	03-Jul-19	31-Jul-19		•			
REMAINING W	ORKS						,					
DES1430	PM Consent for Construction	28	10	11-Jan-19 A	09-Aug-19	04-Mar-19	31-Mar-19		PM Consent for Con	struction		
DES1470	PM Consent for Construction	28	22	11-Mar-19 A	22-Aug-19	11-May-19	07-Jun-19		PM Co	nsent for Construction		
DES1480	Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign	21	4	26-Nov-18 A	04-Aug-19	31-Dec-18	20-Jan-19		Prepare & submit Founda	ion Design of Pedestrian Lift 1 & 2	2, Lift 2 Staircase, Cycl	e Track Ramp & S
DES1490	PM review & comment	28	25	25-Jan-19 A	29-Aug-19	05-Apr-19	02-May-19	-		PM review & comment		
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry	35	35	30-Aug-19	04-Oct-19	04-May-19	07-Jun-19	-			Re-submit Found	-
DES1510	PM Consent for Construction	28	28	04-Oct-19	01-Nov-19	08-Jun-19	05-Jul-19					PM
DES1530	PM review & comment	28	1	02-Jan-19 A	31-Jul-19	31-Jan-19	27-Feb-19	-	PM review & comment			
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	31-Jul-19	02-Apr-19	03-May-19	_	Re-submit Design of Waterma	in & Irrigation System w/Design (Certificate	
DES1550	PM Consent for Construction	28	28	21-Jan-19 A	28-Aug-19	04-May-19	31-May-19	-		PM Consent for Construction		
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	31-Jul-19	03-Sep-19	31-Mar-19	04-May-19		i i I	Prepare & submit Design o	E&M System (E&M & I	Road Lighting) w/
DES1570	PM review & comment	28	28	04-Sep-19	01-Oct-19	05-May-19	01-Jun-19				PM review & comme	ent
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Oct-19	03-Nov-19	03-Jun-19	04-Jul-19					R
SUBLETT	FING & PROCUREMENT SCHE	DULE				,					1 1 1 1	
SUBLETTING											1 1 1	
SPS1000	Maintenance of Traffic Flow	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19		1 1 1 1	Maintenance of Traffic Flow		
SPS1030	Hoarding and Signboard	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19			Hoarding and Signboard		
SPS1060	Security System of the Site	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19	-	 	Security System of the Site	1 1 1 1	
SPS1140	Site Clearance and Demolition Work	30	30	31-Jul-19	29-Aug-19	07-Apr-19	06-May-19	_		Site Clearance and Demolition V	Vork	
SPS1160	Monitoring and Instrumentation	30	30	31-Jul-19	29-Aug-19	07-Apr-19	06-May-19			Monitoring and Instrumentation		
SPS1170	Piling Works and Pile Testing	30	1	21-Dec-18 A	31-Jul-19	28-Feb-19	29-Mar-19		Piling Works and Pile Testing			
SPS1200	Waterwork (Pipework)	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19			Waterwork (Pipework)		
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	30	29-Sep-19	28-Oct-19	31-May-19	29-Jun-19					Drainage
									1	1	1	1
										Date Revisio	n Check	Approved
Rem	naining Level of Effort Remainir	ng Work		ROA	D WIDEN				RRIERS ON TAI	8-Aug-19 3MRP DWP 19		Approved
Actua	al Level of Effort Critical R	lemaining	g Work			PO RC	DAD (SHA	TIN SECTION)		o-nug- is joivine DWP is		
Prim	ary Baseline 🔷 🔶 Milestone	Э			3 N	<i>l</i> onths R	ollina Pro	ogramme (31/07	/19)			
	al Work		•				Page		- /			
			-									

Activity ID	Activity Name	Original Duration		3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	Jul	Aug	2019 Sep	Oct	Nov
								13	14	15	16	17
SPS1220	CCTV for Drainage Pipe	30	30	31-Jul-19	29-Aug-19	01-Apr-19	30-Apr-19			CCTV for Drainage Pipe		
SPS1240	Reinforced Concrete Work for Retaining Walls	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19			Reinforced Concrete Work for F	letaining Walls	
SPS1250	Reinforced Concrete Work for Noise Mitigation Measures	30	30	31-Jul-19	29-Aug-19	31-Mar-19	29-Apr-19			Reinforced Concrete Work for N	loise Mitigation Measure	:S
SPS1260	Reinforced Concrete Work for Bridge Work	30	30	27-Aug-19	26-Sep-19	28-Apr-19	28-May-19			Re	einforced Concrete Work	for Bridge Work
SPS1270	Reinforced Concrete Work for Pedestrian Lift	30	30	26-Oct-19	25-Nov-19	30-Jun-19	29-Jul-19					
SPS1280	Reinforced Concrete Work for Footbridge NF40 & NF66	30	30	19-Sep-19	18-Oct-19	23-May-19	22-Jun-19				Re	einforced Concrete
SPS1290	Steelwork for NB and Lift Tower	30	30	23-Aug-19	22-Sep-19	24-Apr-19	23-May-19			Steelw	ork for NB and Lift Towe	r
SPS1310	Bearing and Movement Joint	30	30	27-Aug-19	25-Sep-19	01-May-19	31-May-19				aring and Movement Joir	nt
SPS1320	Tendon Works	30	30	27-Aug-19	25-Sep-19	01-May-19	31-May-19			Ter	ndon Works	
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	30	31-Aug-19	30-Sep-19	02-May-19	31-May-19				Pedestrian Lift (Lift Ca	ırs, E&M, Panel, Lc
SPS1420	Lighting System for Noise Mitigation Measures	30	30	06-Sep-19	06-Oct-19	12-Jul-19	10-Aug-19				Lighting System	n for Noise Mitigatio
SPS1440	Drainage for Noise Mitigation Measures	30	30	06-Sep-19	06-Oct-19	12-Jul-19	10-Aug-19				Drainage for No	ise Mitigation Mea
SPS1460	Waterproofing (Bitumen Paint)	30	30	01-Aug-19	30-Aug-19	06-Apr-19	05-May-19			Waterproofing (Bitumen Paint)		
WORK BE	TWEEN SHING MUN TUNNEL	S RO	AD AN	D FOOT	BRIDGI	E NF71/	A (ZON					
PRELIMINARIE	SWORKS											
	RAFFIC ARRAGEMENT											
TTA PERIOD												
Z1_1410	Construction Zone 1_Stage 1 Northbound R1 structure	300	300	12-Aug-19	15-Aug-20	19-Jun-19	20-Jun-20				*****	~~~~~~
Z1_1430	Construction Zone 1_Stage 1 Central Barrier structure	303	303	05-Oct-19	13-Oct-20	12-Aug-19	18-Aug-20				*****	*****
PREPARATORY												
TREE FELLING		10	0	25 Jan 10 A	00 Aug 10	11-Mar-19	01 Apr 10		Zana A have felling			
Z1_1290	Zone 1_tree felling works	18	0	25-Jan-19 A	09-Aug-19	11-10121-19	01-Apr-19		Zone 1_tree felling	works		
	N EXISTING ROAD/TEMPORARY ROAD								 			
Z1_1270	Zone 1-1_construct temporary road platform along Northbound for R1	60	60	12-Aug-19	24-Oct-19	19-Jun-19	28-Aug-19					Zone 1-1_cons
UTILITIES DIVE												
Z1 1300	UU CLP-abandoned 33kv cable for RSE1	20	20	25-Sep-19	21-Oct-19	02-Aug-19	24-Aug-19					
	CH1190-1300 110m	20	20	20-0ep-19	21-001-19	02-Aug-19	24-Aug-19					UU_CLP-abandon
PILE FOUNDAT									 			·····
NORTHBOUNI												
Z1_1510	R1_site investigation for R1-02P (1nr)	5	5	24-Oct-19	30-Oct-19	29-Aug-19	03-Sep-19					R1_site
CENTRAL BAR	RIER											
Z1_1490	RSE1_site investigation for RSE1-01P to 03P (6nr)	15	15	05-Oct-19	24-Oct-19	12-Aug-19	28-Aug-19					RSE1_site inve
WORK BE	TWEEN FOOT BRIDGE NF71		CITVI		AZA (ZO	NF 2)					+	
			CITI		AZA (20	NL 2)						
PRELIMINARIE	SWORKS									1		<u> </u>
Bom	aining Level of Effort Remainin									Date Revisio	n Check	Approved
		-		RUA				FING NOISE BAR	RRIERS ON TAI	08-Aug-19 3MRP DWP 1		
Actua	I Level of Effort Critical R	emainin	g Work				-	TIN SECTION)				
Prima	ary Baseline 🔷 🔷 Milestone)			3 N	Ionths R	olling Pro	ogramme (31/07/	/19)			
	I Work	Mileston	A				Page 3	•				
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Activity ID	Activity Name	Original	Remaining 3N	MRP Start	3MRP Finish	AP6 Start	AP6 Finish		1	2019	-	1	
		Duration	Duration					Jul 13	Aug 14		Sep 15	Oct 16	Nov 17
TEMPORARY T	TRAFFIC ARRAGEMENT												
Z2_1260	Construction Zone 2_Stage 1 Central Barrier structure	518	514 10)-Jul-19 A	26-Apr-21	31-May-19	25-Feb-21		•	****	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	*****
PREPARATOR													
		10	7 10		00 A (0	04.1.00							
Z2_1220	Zone 2_tree felling works	18	/ 19	9-Feb-19 A	08-Aug-19	24-Jan-20	17-Feb-20						
	ON EXISTING ROAD/TEMPORARY ROAD												
Z2_1230	Zone 2-1_construct temporary road platform along Southbound	60	48 10)-Jul-19 A	05-Oct-19	31-May-19	10-Aug-19					Zone 2-1_constr	uct temporary roa
NOISE BARRI	ER AND SEMI-ENCLOSURE												
PILE FOUNDA													
Z2 1000	ARRIER RSE2 site investigation for RSE2-13P & 15P (30nr)	50	50 05	5-Oct-19	04-Dec-19	10 Aug 10	11-Oct-19						
22_1000	NSE2_Site investigation for NSE2-13F & 15F (Solir)	50	50 05	5-001-19	04-Dec-19	12-Aug-19	11-001-19						
WORK BI	ETWEEN CITYLINE PLAZA ANI	D FOO ⁻	TBRIDO	GE NF4	10 (ZON	E 3)							
PRELIMINARI	ES WORKS												
	TRAFFIC ARRAGEMENT												
		00.4	004 04	1 1 1 1 0	44.0 00	47 4	00 14 00						
Z3_3270	Construction period of Zone 3a_1	334	334 31	1-Jul-19	11-Sep-20	17-Apr-19	20-May-20			****	*****		*****
Z3_3340	Construction period of Zone 3c_1	343	343 31	1-Jul-19	22-Sep-20	22-May-19	30-May-20			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	*****
Z3_3400	Construction period of Zone 3b_1	294	294 30)-Sep-19	24-Sep-20	30-May-19	30-May-20						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
PREPARATOR													
		10	4 00			05 5 L 40	10.14 10						
Z3_2800	Zone 3_tree felling works	18	1 22	2-Jan-19 A	31-Jul-19	25-Feb-19	16-Mar-19		Zone 3_tree felling works				
BRIDGE AND	STRUCTURE WORKS											 	
PRELIMINARIE													
UTILITIES DIV NORTHBOU													
Z3_2910	UU_CLP-abandoned 11kv cable for RW6	13	13 31	1-Jul-19	14-Aug-19	03-Apr-19	18-Apr-19		UU CLP-a	oandoned 11kv c	able for RW6 CH16	75-1725 50m	
Z3 2920	CH1675-1725 50m UU HKT-diversion cable for RW7 CH1830-2000	34	34 16	6-Aug-19	25-Sep-19	16-Apr-19	31-May-19				UL	J HKT-diversion cable f	or RW7 CH1830-2
Z3_2930	170m UU CLP-abandoned 11kv cable for RW7 & SR4	22	22 30)-Aug-19	25-Sep-19	04-May-19	31-May-19					J CLP-abandoned 11kv	
	CH1825-1950 125m			-	· ·	· ·					00	T	
Z3_3130	UU_Fresh watermain for SR4 178m 200mm	23	23 02	2-Sep-19	30-Sep-19	03-May-19	31-May-19					UU_Fresh watermain	for SR4 178m 200
SOUTHBOU													
Z3_2970	UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m	127	127 31	1-Jul-19	31-Dec-19	01-Apr-19	04-Sep-19						
Z3_3050	UU_CLP-abandoned 11kv cable for SR2 & N263 CH1710-1950 240m	35	35 19	9-Aug-19	28-Sep-19	24-Apr-19	05-Jun-19					UU_CLP-abandoned 11	kv cable for SR2 8
Z3_3060	UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1850 210m	51	51 31	1-Jul-19	28-Sep-19	01-Apr-19	05-Jun-19					UU_GAS-diversion LP	pipe for SR2 & N2
Z3_3070	UU_HKT-diversion cable for SR2 & N263	39	39 14	1-Aug-19	28-Sep-19	16-Apr-19	05-Jun-19					UU_HKT-diversion cab	e for SR2 & N263
Z3_3110	CH1630-1840 210m UU_GAS-diversion LP pipe for N263 CH1825-1960	38	38 15	5-Aug-19	28-Sep-19	17-Apr-19	05-Jun-19					UU_GAS-diversion LP	pipe for N263 CH1
Z3_3120	135m UU_Fresh watermain for Staircase & N263 150PE	23	23 24	4-Oct-19	19-Nov-19	29-Jun-19	26-Jul-19	<u> </u>					
WIDENING FO	DR NORTH HOLLOW ABUTMENT (N264)												
Rem	naining Level of Effort	ng Work		BOA		IING & P			RRIERS ON TAI	Date	Revisio		Approved
		emaining	Work	noai				TIN SECTION)		08-Aug-19	3MRP DWP 1	907 Tim	
		-	VVUIN				-		(10)				
	nary Baseline 🔷 🔷 Milestone				31	viontins H	-	ogramme (31/07	(19)				
Actu	al Work \blacklozenge \blacklozenge Baseline	Milestone					Page 4	l of 7					
l													
										•			

Activity ID	Activity Name	Original	Remaining 3MRP Start	3MRP Finish	AP6 Start	AP6 Finish			2019		
		Duration					Jul 13	Aug 14	Sep 15	Oct 16	Nov 17
Z3_4200	C01_ELS & footing construction	45	45 01-Aug-19	24-Sep-19	05-Apr-19	04-Jun-19	10			1 LS & footing construction	17
Z3_4210	C01_cloumn construction	40	40 24-Sep-19	12-Nov-19	04-Jun-19	23-Jul-19					
Z3_4220	N264_modification existing MTRC fencing for deck	60	60 01-Aug-19	14-Oct-19	05-Apr-19	22-Jun-19	-			N264_modifie	cation existi
Z3_4240	widening N264_temporary protection MTRC cable	45	45 24-Sep-19	18-Nov-19	04-Jun-19	29-Jul-19					
MODIFICATION	N OF BRIDGE N263										
RECONSTRUC	CTION ABUTMENT WALL AT NHA							· · · · · · · · · · · · · · · · · · ·			
Z3_4100	Demolish part of existing NHA wall for construction new wall	60	60 31-Jul-19*	11-Oct-19	17-Apr-19	03-Jul-19	_			Demolish part of	existing NI
Z3_4110	NAW-1_construct ELS & piling platform	42	42 31-Jul-19*	18-Sep-19	17-Apr-19	11-Jun-19			NAW-1_c	onstruct ELS & piling platform	
Z3_4120	NAW-1_piling works for new NHA wall 5nr 1.5m bored pile	70	70 30-Sep-19	21-Dec-19	12-Jun-19	02-Sep-19					
Z3_4150	NAW-2_construct ELS & piling platform	42	42 31-Jul-19	18-Sep-19	17-Apr-19	11-Jun-19			NAW-2_c	onstruct ELS & piling platform	
Z3_4160	NAW-2_piling works for new NHA wall 4nr 1.5m bored pile	56	56 30-Sep-19	05-Dec-19	12-Jun-19	16-Aug-19					·
MODIFICATIO	N EXISTING PIER WALL OF N263		ļ								į.
Z3_3870	SAW-1_piling works for new NHA wall 3nr 1.5m	42	42 30-Sep-19	19-Nov-19	06-Jun-19	26-Jul-19					
MODIFICATIO	bored pile N EXISTING SOUTH HOLLOW ABUTMENT WALL										
Z3_3950	SHA_piling works for pier SHA6 nos. Socket H-pile	48	48 30-Sep-19	26-Nov-19	30-May-19	27-Jul-19					
RETAINING WA	ALL & SUBWAY										
RETAINING W											
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	45 31-Jul-19	21-Sep-19	22-May-19	16-Jul-19			RW1_	demolish existing retaining stru	cture betwe
Z3_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	45 23-Sep-19	15-Nov-19	16-Jul-19	06-Sep-19					
RETAINING W											
Z3_1218_100	0 RW6_ELS works for Bay 601 to Bay 608 (62m_2 side)	35	32 12-Jul-19 A	15-Oct-19	27-May-19	12-Jul-19				RW6_ELS w	orks for Ba
Z3_1218_1010	0 RW6_base slab construction for Bay 601 to Bay 608	64	64 09-Sep-19	05-Dec-19	20-Jun-19	17-Sep-19					
Z3_1218_1020	0 RW6_retaining wall construction for Bay 601 to Bay 608	96	96 01-Oct-19	11-Feb-20	12-Jul-19	22-Nov-19					
Z3_1218_1040	0 RW6_soldier pile wall for Bay 609 to Bay 614 (53nr)	30	30 15-Aug-19	25-Sep-19	19-Apr-19	31-May-19			R	W6_soldier pile wall for Bay 60	9 to Bay 614
RETAINING W											
	0 RW7_ELS works for Bay 706 to Bay 711 (54m_2	30	27 12-Jul-19 A	25-Feb-20	17-Sep-19	28-Oct-19					·
Z3_1218_2040	side) 0 RW7_soldier pile wall for Bay 701 to Bay 705 (62nr)	35	35 26-Sep-19	13-Nov-19	31-May-19	19-Jul-19			_		
Z3_1218_2050	0 RW7_base slab construction for Bay 701 & Bay 704	32	32 17-Oct-19	29-Nov-19	21-Jun-19	06-Aug-19					
	TING RETAINING WALL SR4										
Z3 5070	SR4 ELS works for Bay SR401 to Bay SR405	25	25 30-Sep-19	31-Oct-19	31-May-19	02-Jul-19					SR4 E
Z3 5080	(90m_1 side) SR4 base slab construction for Bay SR401 to Bay	40		18-Nov-19	31-May-19	19-Jul-19					OI14_L
Z3 5090	SR405 SR4 retaining wall construction for Bay SR401 to	60	· · · · · · · · · · · · · · · · · · ·	07-Jan-20	25-Jun-19	04-Sep-19					1
	SR405	00	00 23-001-19	07-5411-20	25-5011-19	04-3ep-19					
	TING SUBWAY NS30	100	100 01 14 10	00 Dec 10	00 May 10	15 Oct 10					
Z3_5200	Re-align existing subway NS30	120	120 31-Jul-19	20-Dec-19	22-May-19	15-Oct-19					
									Date Revisi	on Check Ap	proved
Rema	aining Level of Effort	ng Work	ROA	D WIDEN	ING & R	ETROFIT	FING NOISE BAI	RRIERS ON TAI			proveu
Actua	al Level of Effort Critical R	emaining	a Work		PO RO	DAD (SHA	TIN SECTION)		08-Aug-19 3MRP DWP	1907 Tim	
		-		2 1		-		(10)			
	ary Baseline \diamond \diamond Milestone			3 1		-	ogramme (31/07	(13)			
Actua	al Work Baseline 	Mileston	e			Page 8	5 of 7				
						-					
									1		

ivity ID	Activity Name		emaining 3MRI	Start 3MRP Finis	h AP6 Start	AP6 Finish	lul	A	2019		1
		Duration	Duration				Jul 13	Aug 14	Sep 15	Oct 16	Nov 17
WORK BI	ETWEEN FOOTBRIDGE NF40	AND NF	-66 (ZON	E 4)							
PRELIMINARI											
TEMPORARY	TRAFFIC ARRAGEMENT										
TTA PERIOD		000	000 00 4	- 40 45 May 00	07 14 40	44 100 00					
Z4_1390	Construction Zone 4_Stage 1 Northbound structure	208	208 29-Au	15-May-20	07-May-19	14-Jan-20				÷	*****
Z4_1470	Construction Zone 4_NF66 Construction	220	220 19-Au	ıg-19 18-May-20	18-Apr-19	15-Jan-20		××××××	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	******	
Z4_1480	Construction Zone 4_NF40 Construction	489	489 31-Ju	II-19 22-Mar-21	01-Apr-19	23-Nov-20		¢	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****	*****
PREPARATOR	RY WORKS	<u> </u>	I								
	NG/TRANPLANT										
Z4_1320	Zone 4_NB tree felling works	18	0 25-Ja	in-19 A 29-Jun-19 /	A 31-Jan-19	23-Feb-19	NB tree telling works	-			
UTILITIES DIV											
Z4 1270	UU CLP-abandoned 33kv cable for N4	0	0 29-Au	Ig-19 29-Aug-19	07-May-19	07-May-19			UU_CLP-abandoned 33kv cable	for N4 CH2100-2350 250m	(Abandonec
	CH2100-2350 250m (Abandoned)			· ·	-	-	_		'		(/ ibailaonea
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25 31-Ju	II-19 29-Aug-19	02-Apr-19	06-May-19			UU_CATV-slew cable for N4 CH	12190-2400 210m	
Z4_1290	UU_CLP-abandoned 33kv cable for N4&SE6 CH2150-2160 20m (Abandoned)	0	0 29-Au	ug-19 29-Aug-19	07-May-19	07-May-19	_		UU_CLP-abandoned 33kv cable	for N4&SE6 CH2150-2160	20m (Aband
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5 31-Ju	II-19 05-Aug-19	02-Apr-19	08-Apr-19	_	UU_HKT-slew cable fo	N4 & NF66 CH2320-2360 40m		
Z4_1360	UU_Fresh watermain for N4 CH2150-2200 77m	40	40 29-Au	ıg-19 18-Oct-19	07-May-19	24-Jun-19				UU_F	resh waterm
NOISE BARRI	600mm IER AND SEMI-ENCLOSURE										
PILE CAP AND	D FOOTING										
NORTHBOUN											
Z4_1000	N4_ELS for footing construction N4-12 to N4-29 (231m 2 side)	64	64 29-Au	ıg-19 15-Nov-19	07-May-19	23-Jul-19					
Z4_1010	N4_footing construction N4-12 to N4-29 (18nr)	126	126 30-Se	ep-19 03-Mar-20	05-Jun-19	04-Nov-19					
BRIDGE AND	STRUCTURE WORKS	· · · ·	/								
	N WORKS FOR NF40	1 1									
NF40_1000	Construct temporary staircase	60	60 31-Ju	II-19 11-Oct-19	01-Apr-19	17-Jun-19				Construct ten	porary stair
NF40_1010	Demolish existing staircase & part of existing footing	45	45 12-0	ct-19 03-Dec-19	18-Jun-19	09-Aug-19					
MODIFICATIO	N WORKS FOR NF66									+	
NF66_1000	ELS & 1st stage pile cap construction (CSD)	50	50 19-Au	ıg-19 18-Oct-19	18-Apr-19	22-Jun-19				ELS &	1st stage pi
NF66_1010	Pile cap construction (CSD)	35	35 19-O	ct-19 28-Nov-19	22-Jun-19	03-Aug-19					
	ETWEEN FOOTBRIDGE NF66		TAN BC		5)						
PRELIMINARI					5)						
PREPARATOR											
TREE FELLIN	NG/TRANPLANT										
Z5_1710	Zone 5_tree felling works	18	6 22-Ja	In-19A 18-Feb-20	21-Sep-19	15-Oct-19					
PORTION	NE (ZONE 5)										
PRELIMINARI											
PREPARATOR	RY WORKS										
	naining Level of Effort	a Work							Date Revisio	n Check	Approved
		-					TING NOISE BA	KRIEKS UN TAI	08-Aug-19 3MRP DWP 1		
		emaining	Work			-	A TIN SECTION)				
Prim	nary Baseline 🔷 🔷 Milestone	9		3	Months F	Rolling Pr	ogramme (31/07	/19)			
Actu	ual Work	Milestone				Page	6 of 7				
		-				0-					

Ac	tivity ID	Activity Name	Original	Remaining	3MRP Start	3MRP Finish	AP6 Start	AP6 Finish	2019				
			Duration	Duration					Jul	Aug	Sep	Oct	Nov
									13	14	15	16	17
	TREE FELLING	TRANPLANT											
		Portion E tree felling works	30	7	22-Jan-19 A	21-Sep-20	15-Apr-20	22-May-20				1	
	-	_ 0										1	

Remaining Level of Effort		Remaining Work	ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI	Date	Revision	Check	Approved
Actual Level of Effort		Critical Remaining Work	PO ROAD (SHA TIN SECTION)	08-Aug-19	3MRP DWP 1907	Tim	
Primary Baseline	_	♦ Milestone	3 Months Rolling Programme (31/07/19)				
,	~						
Actual Work	•	Baseline Milestone	Page 7 of 7				

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

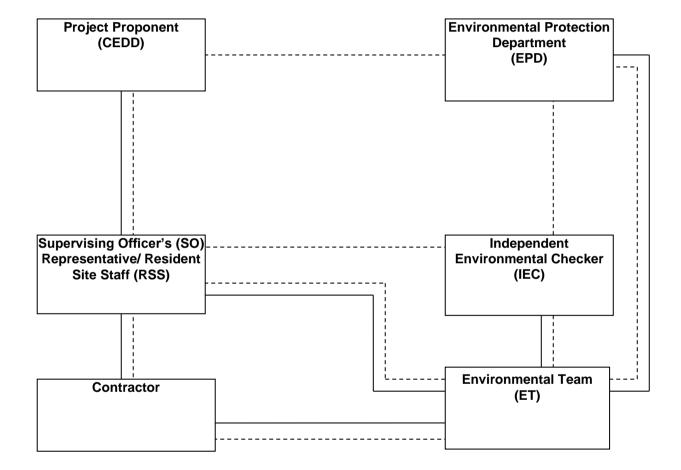


Appendix B

Project Organization Chart

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





Legen	Legend:									
	Line of Reporting									
	Line of Communication									

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



Appendix C

Action and Limit Levels for Air Quality and Noise

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



Parameter	Monitoring Station	Action Level (µg/m³)	Limit Level (µg/ m³)
	AMS 4A	200	
	AMS 6	165	
24-hr TSP	AMS 7A	171	
	AMS 8	161	260
(µg/m³)	AMS 12	168	
	AMS 13	174	
	AMS 15		
	AMS 4A	348	
	AMS 6	347	
	AMS 7A	344	
1-hr TSP	AMS 8	366	500
(µg/m³)	AMS 12	296	
	AMS 13	303	
	AMS 15	350	

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

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

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

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

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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 NMS16 NMS16 NMS18 NMS19 NMS20 NMS20 NMS23 NMS24 NMS25A NMS26	When one documented complaint is received	55 dB(A)

Action and Limit Levels for Construction Noise, Leq (15min), 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 4A - Wai Wah Centre

			1-1	hour TSP (µg/i	m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
03-Jun-19	15:11	105	97	86	96			Overcast
08-Jun-19	10:05	88	95	93	92			Sunny
14-Jun-19	08:09	93						
19-Jun-19	10:10	109	101	99	103			Sunny
25-Jun-19	15:32	33	37	41	37			Fine
29-Jun-19	12:21	45	45	39	43			Fine
05-Jul-19	11:12	91	91	88	90			Sunny
11-Jul-19	08:47	79	68	60	69	348	500	Sunny
17-Jul-19	15:08	57	77	79	71	040	000	Sunny
23-Jul-19	11:14	91	79	96	89			Sunny
29-Jul-19	09:42	76	76	83	78			Sunny
03-Aug-19	15:00	98	102	98	99			Overcast
09-Aug-19	10:09	77	62	57	65			Sunny
15-Aug-19	09:13	66	74	63	68			Sunny
21-Aug-19	14:47	51	57	53	54			Sunny
27-Aug-19	11:34	94	94	81	90			Fine
	Average		78					
	Max		109					
	Min		33					

AMS 6 - Shatin Plaza

			1-ł	nour TSP (µg/ı	n³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-May-19	11:05	50	66	69	62			Fine
10-May-19	09:25	57	55	64	59			Sunny
16-May-19	10:00	75	82	69	75			Sunny
22-May-19	08:28	48	46	52	49		500	Fine
28-May-19	09:08	78	73	71	74	347		Overcast
03-Aug-19	12:11	98	104	97	100	041		Overcast
09-Aug-19	15:31	78	59	97	78			Sunny
15-Aug-19	14:43	80	80	74	78			Sunny
21-Aug-19	09:04	55	49	49	51			Sunny
27-Aug-19	09:01	78	73	70	74			Fine
	Average 76							
	Max		104					
	Min		49					

AMS 7A - Sheung Wo Che

			1-ł	nour TSP (µg/ı	m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-May-19	14:46	25	25	24	25			Fine
10-May-19	11:56	47	44	40	44			Sunny
16-May-19	15:35	42	42 45 51 46				Sunny	
22-May-19	15:01	81	81	90	84			Fine
28-May-19	13:14	105	114	92	104			Overcast
03-Jun-19	11:19	78	84	80	81			Overcast
08-Jun-19	15:05	76	81	81	79			Sunny
14-Jun-19	12:07	61	68	65	65			Overcast
19-Jun-19	15:03	77	80	84	80			Sunny
25-Jun-19	15:49	134	141	141	139			Fine
29-Jun-19	15:19	23	21	23	22	344	500	Fine
05-Jul-19	13:25	86	79	93	86			Sunny
11-Jul-19	15:18	71	73	79	74			Sunny
17-Jul-19	11:41	41	52	56	50			Sunny
23-Jul-19	10:18	49	41	54	48			Sunny
29-Jul-19	15:11	49	51	53	51			Sunny
03-Aug-19	15:00	97	101	99	99			Overcast
09-Aug-19	11:06	71	77	67	72			Sunny
15-Aug-19	11:48	78	74	69	74			Sunny
21-Aug-19	13:30	94	94 101 87 94			Sunny		
27-Aug-19	12:23	73	81	63	72			Fine
	Average		71					
	Max		141					
	Min		21					

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.

AMS 8 - Lek Yuen Estate

			1-	hour TSP (µg/	m³)			
Date	Start Time	1st hr	2nd hr 3rd hr		Average	Action Level	Limit Level	Weather
03-Jun-19	15:12	68	66	76	70			Overcast
08-Jun-19	15:19	67	70	76	71		500	Sunny
14-Jun-19	11:31	96	99	86	94	336		Overcast
19-Jun-19	12:02	66	69	77	71			Sunny
25-Jun-19	08:37	149	103	109	120			Fine
29-Jun-19	15:31	23	25	29	26			Fine
05-Jul-19	15:12	89	95	100	95			Sunny
11-Jul-19	09:47	87	79	72	79			Sunny
17-Jul-19	12:11	44	44	44	44			Sunny
23-Jul-19	14:04	81	81	79	80			Sunny
29-Jul-19	13:07	64	60	57	60			Sunny
	Average 74							
	Max		149					
	Min		23					

AMS 12 - Fung Wo Estate

	1-hour TSP (µg/m³)												
Date	Start Time	1st hr	2nd hr 3rd hr		Average	Action Level	Limit Level	Weather					
04-May-19	12:00	32	32	32	32			Fine					
10-May-19	11:57	92	52	52	65	296	500	Sunny					
16-May-19	12:13	79	83	70	77			Sunny					
22-May-19	14:43	55	58	56	56			Fine					
28-May-19	12:06	52	58	55	55			Overcast					
	Average		57			·							
	Max		92										
	Min		32										

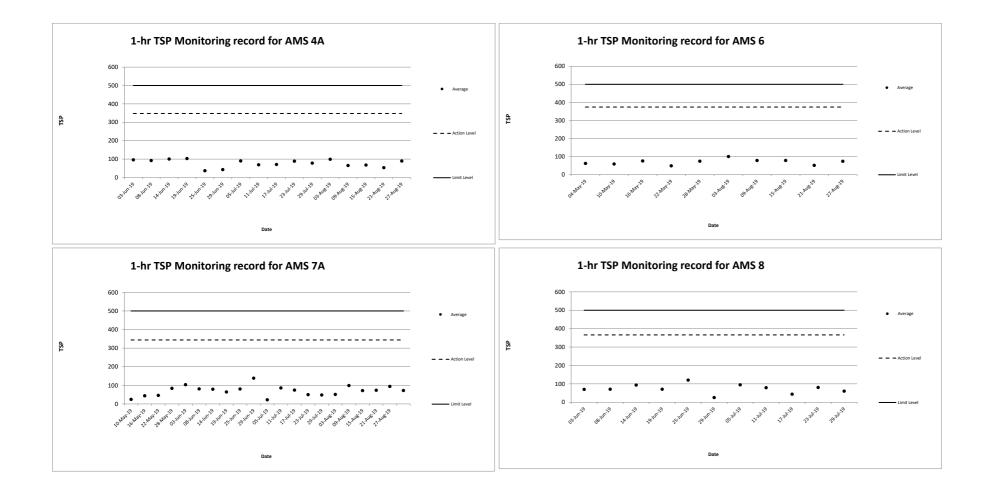
AMS 13 - Fung Wo Estate

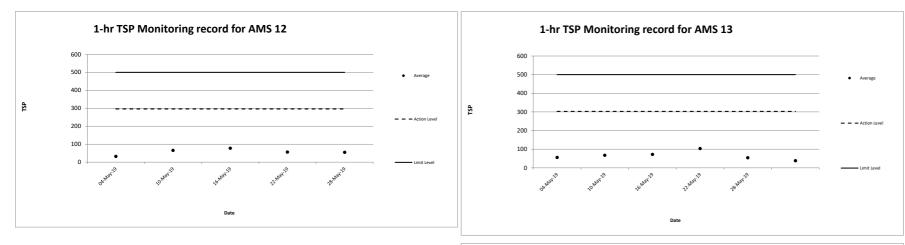
	1-hour TSP (µg/m³)											
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather				
03-Jun-19	13:37	53	57	57	56			Overcast				
08-Jun-19	10:25	80	61	61	67		500	Sunny				
14-Jun-19	10:13	76	74	67	72	303		Overcast				
19-Jun-19	09:37	101	106	104	104	303		Sunny				
25-Jun-19	15:26	53	53	57	54			Fine				
29-Jun-19	10:46	43	37	35	38			Fine				
	Average		65			·						
	Max		106									
	Min		35									

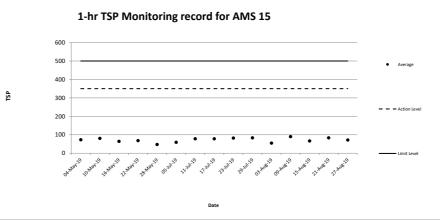
AMS 15 - Ha Wo Che

			1-1	hour TSP (µg/	m³)			
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
04-May-19	09:36	72	77	70	73			Fine
10-May-19	13:45	81	86	74	80			Sunny
16-May-19	10:40	57	63	72	64			Sunny
22-May-19	13:07	68	64	73	68			Fine
28-May-19	14:00	50	39	53	47			Overcast
05-Jul-19	15:40	59	57	61	59	350	500	Sunny
11-Jul-19	14:07	72	79	84	78			Sunny
17-Jul-19	15:41	74	83	77	78			Sunny
23-Jul-19	14:18	77	81	88	82			Sunny
29-Jul-19	12:27	85	86	79	83			Sunny
03-Aug-19	14:00	54	54	56	55			Overcast
09-Aug-19	14:41	87	92	91	90			Sunny
15-Aug-19	15:59	68	68	63	66			Sunny
21-Aug-19	15:50	72	87	91	83			Sunny
27-Aug-19	13:27	69	75	71	72			Fine
	Average		73					
	Max		92					
	Min		54					

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.







AMS 6 - Shatin Plaza

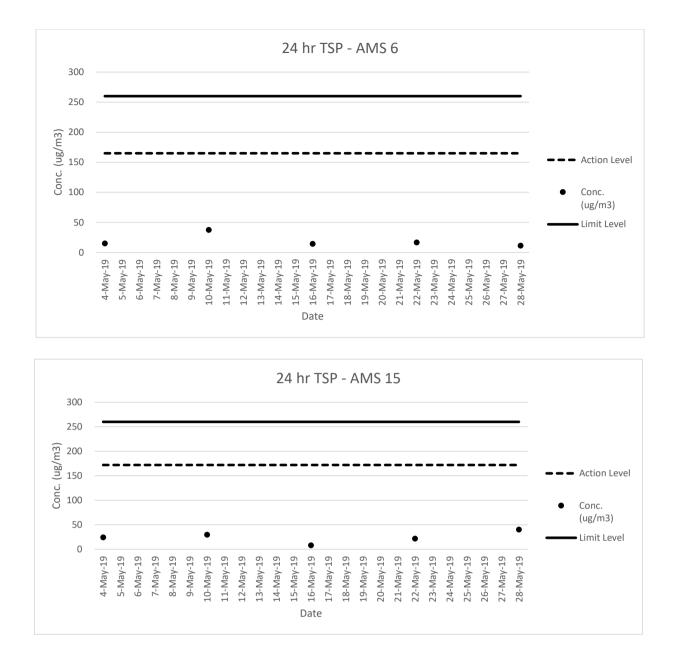
	Weather	Air	Atmospheric	Filter W	Filter Weight (g) P		Sampling	Flow		Average	Total	Conc.	Action	Limit
Start Date	Condition	Temperature	Pressure, Pa						nin.)	flow	volume	$\left(u \alpha / m^{3} \right)$	Level	Level
	Condition	(K) (mmHg) Initial Final weight (g) T	11116(1113)	Initial	Final	(m ³ /min.)	(m ³)	(ug/m³)	(ug/m^3)	(ug/m ³)				
4-May-19	Fine	295.8	760	2.7646	2.8001	0.0355	24	1.6443	1.6381	1.64	2363.2636	15		
10-May-19	Sunny	297.1	758	2.7513	2.8086	0.0573	24	1.0619	1.0619	1.06	1529.1215	37		
16-May-19	Sunny	302.4	756	2.7042	2.7365	0.0323	24	1.5400	1.5557	1.55	2228.9087	14	165	260
22-May-19	Fine	298.5	758	2.7710	2.8105	0.0395	24	1.6343	1.6381	1.64	2356.0567	17		
28-May-19	Overcast	299.1	757	2.7654	2.7897	0.0243	24	1.47	1.47	1.47	2117.48	11		
											Min	11		
											Max	37]	
											Average	19]	

AMS 15 - Ha Wo Che

Start Date	Condition	Air	Atmospheric Pressure, Pa	Filter Weight (g)		Particulate	Sampling	Flow Rate (m ³ /min.)		Average flow	Total volume	Conc.	Action	Limit
		Temperature (K)	(mmHg)	Initial Fi	Final	weight (g)	Time(hrs)	Initial	Final	(m ³ /min.)	(m ³)	(ug/m ³)	Level (ug/m ³)	Level
		\ /	(mmng)				iniuai					(ug/m)	(ug/m^3)	
4-May-19	Fine	295.8	760	2.7773	2.8031	0.0258	24	0.74	0.73	0.73	1057.05	24		
10-May-19	Sunny	297.1	758	2.7330	2.7751	0.0421	24	0.98	0.98	0.98	1410.60	30		
16-May-19	Sunny	302.4	756	2.6877	2.6963	0.0086	24	0.73	0.73	0.73	1049.65	8	172	260
22-May-19	Fine	298.5	758	2.7690	2.7920	0.0230	24	0.73	0.73	0.73	1053.80	22		
28-May-19	Overcast	299.1	757	2.7027	2.7878	0.0851	24	1.47	1.47	1.47	2117.48	40		
											Min	8		
											Max	40		
											Average	25		

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

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



e and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³
/06/19 09:11	86	08/06/19 10:05	88	14/06/19 08:09	93
/06/19 10:11	90	08/06/19 11:05	95	14/06/19 09:09	106
06/19 11:11	99	08/06/19 12:05	93	14/06/19 10:09	102
06/19 12:11	94	08/06/19 13:05	84	14/06/19 11:09	88
06/19 13:11	96	08/06/19 14:05	88	14/06/19 12:09	84
06/19 14:11	96	08/06/19 15:05	77	14/06/19 13:09	77
06/19 15:11	105	08/06/19 16:05	75	14/06/19 14:09	79
06/19 16:11	97	08/06/19 17:05	68	14/06/19 15:09	73
06/19 17:11	86	08/06/19 18:05	71	14/06/19 16:09	69
06/19 18:11	92	08/06/19 19:05	77	14/06/19 17:09	66
06/19 19:11	60	08/06/19 20:05	84	14/06/19 18:09	71
06/19 20:11	69	08/06/19 21:05	68	14/06/19 19:09	75
06/19 21:11	73	08/06/19 22:05	91	14/06/19 20:09	66
06/19 22:11	79	08/06/19 23:05	82	14/06/19 21:09	71
6/19 23:11	82	09/06/19 00:05	84	14/06/19 22:09	62
6/19 00:11	77	09/06/19 01:05	58	14/06/19 23:09	68
6/19 01:11	69	09/06/19 02:05	62	15/06/19 00:09	66
6/19 02:11	67	09/06/19 03:05	69	15/06/19 01:09	71
6/19 03:11	58	09/06/19 04:05	69	15/06/19 02:09	66
6/19 04:11	59	09/06/19 05:05	75	15/06/19 03:09	68
6/19 05:11	67	09/06/19 06:05	68	15/06/19 04:09	71
6/19 06:11	67	09/06/19 07:05	64	15/06/19 05:09	59
6/19 07:11	69	09/06/19 08:05	77	15/06/19 06:09	66
6/19 08:11	77	09/06/19 09:05	77	15/06/19 07:09	60
Average	80	Average	77	Average	74
tion Level	200	Action Level	200	Action Level	200
Limit Level	260	Limit Level	260	Limit Level	260
e and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³
06/19 10:10		25/06/19 08:32	36	29/06/19 11:21	36
				25/00/1511.21	
	109			20/06/10 12:21	45
06/19 11:10	101	25/06/19 09:32	37	29/06/19 12:21	45
06/19 11:10 06/19 12:10	101 99	25/06/19 09:32 25/06/19 10:32	37 39	29/06/19 13:21	45
06/19 11:10 06/19 12:10 06/19 13:10	101 99 84	25/06/19 09:32 25/06/19 10:32 25/06/19 11:32	37 39 39	29/06/19 13:21 29/06/19 14:21	45 39
06/19 11:10 06/19 12:10 06/19 13:10 06/19 14:10	101 99 84 86	25/06/19 09:32 25/06/19 10:32 25/06/19 11:32 25/06/19 12:32	37 39 39 36	29/06/19 13:21 29/06/19 14:21 29/06/19 15:21	45 39 45
06/19 11:10 06/19 12:10 06/19 13:10 06/19 14:10 06/19 15:10	101 99 84 86 88	25/06/19 09:32 25/06/19 10:32 25/06/19 11:32 25/06/19 12:32 25/06/19 13:32	37 39 39 36 35	29/06/19 13:21 29/06/19 14:21 29/06/19 15:21 29/06/19 16:21	45 39 45 36
06/19 11:10 06/19 12:10 06/19 13:10 06/19 14:10 06/19 15:10 06/19 16:10	101 99 84 86 88 88	25/06/19 09:32 25/06/19 10:32 25/06/19 11:32 25/06/19 12:32 25/06/19 13:32 25/06/19 14:32	37 39 36 35 36	29/06/19 13:21 29/06/19 14:21 29/06/19 15:21 29/06/19 16:21 29/06/19 17:21	45 39 45 36 30
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6/19 11:10 16/19 12:10 16/19 13:10 16/19 14:10 16/19 15:10 16/19 16:10 16/19 17:10 16/19 18:10	101 99 84 86 88 88 84 80 84	25/06/19 09:32 25/06/19 10:32 25/06/19 11:32 25/06/19 12:32 25/06/19 13:32 25/06/19 14:32 25/06/19 15:32 25/06/19 16:32	37 39 36 35 36 35 36 33 33 33 37	29/06/19 13:21 29/06/19 14:21 29/06/19 15:21 29/06/19 16:21 29/06/19 17:21 29/06/19 18:21 29/06/19 19:21	45 39 45 36 30 62 47
6/19 11:10 6/19 12:10 6/19 13:10 6/19 14:10 6/19 15:10 6/19 16:10 6/19 17:10 6/19 18:10 6/19 19:10	101 99 84 86 88 84 80 84 84 82	25/06/19 09:32 25/06/19 10:32 25/06/19 11:32 25/06/19 12:32 25/06/19 13:32 25/06/19 14:32 25/06/19 14:32 25/06/19 16:32 25/06/19 16:32	37 39 36 35 36 33 37 41	29/06/19 13:21 29/06/19 14:21 29/06/19 15:21 29/06/19 15:21 29/06/19 17:21 29/06/19 17:21 29/06/19 18:21 29/06/19 19:21	45 39 45 36 30 62 47 67
6/19 11:10 6/19 12:10 6/19 13:10 6/19 14:10 6/19 15:10 6/19 16:10 6/19 17:10 6/19 18:10 6/19 19:10 6/19 20:10	101 99 84 86 88 84 80 84 80 84 82 82	25/06/19 09:32 25/06/19 10:32 25/06/19 11:32 25/06/19 12:32 25/06/19 13:32 25/06/19 14:32 25/06/19 15:32 25/06/19 17:32 25/06/19 17:32	37 39 36 35 36 33 37 41 36	29/06/19 13:21 29/06/19 14:21 29/06/19 15:21 29/06/19 15:21 29/06/19 17:21 29/06/19 17:21 29/06/19 18:21 29/06/19 19:21 29/06/19 21:21	45 39 45 36 30 62 47 67 60
6/19 11:10 6/19 12:10 6/19 13:10 6/19 14:10 6/19 15:10 6/19 15:10 6/19 16:10 6/19 17:10 6/19 18:10 6/19 19:10 6/19 20:10 6/19 21:10	101 99 84 86 88 84 80 84 82 82 82 76	25/06/19 09:32 25/06/19 10:32 25/06/19 11:32 25/06/19 12:32 25/06/19 13:32 25/06/19 14:32 25/06/19 15:32 25/06/19 16:32 25/06/19 18:32 25/06/19 19:32	37 39 36 35 36 33 33 37 41 36 39	29/06/19 13:21 29/06/19 14:21 29/06/19 15:21 29/06/19 16:21 29/06/19 16:21 29/06/19 18:21 29/06/19 19:21 29/06/19 20:21 29/06/19 21:21	45 39 45 30 62 47 67 60 43
6/19 11:10 6/19 12:10 6/19 13:10 6/19 14:10 6/19 15:10 6/19 15:10 6/19 16:10 6/19 17:10 6/19 18:10 6/19 19:10 6/19 20:10 6/19 21:10 6/19 22:10	101 99 84 86 88 84 80 84 82 82 76 80	25/06/19 09:32 25/06/19 10:32 25/06/19 11:32 25/06/19 12:32 25/06/19 13:32 25/06/19 14:32 25/06/19 16:32 25/06/19 16:32 25/06/19 17:32 25/06/19 19:32 25/06/19 19:32	37 39 36 35 35 33 33 37 41 36 39 37	29/06/19 13:21 29/06/19 14:21 29/06/19 15:21 29/06/19 15:21 29/06/19 17:21 29/06/19 17:21 29/06/19 19:21 29/06/19 20:21 29/06/19 21:21 29/06/19 21:21	45 39 36 30 62 47 67 67 60 43 43
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05/07/19 12:12	91	11/07/19 11:47	64	17/07/19 12:08
05/07/19 13:12	88	11/07/19 12:47	66	17/07/19 13:08
05/07/19 14:12	77	11/07/19 13:47	66	17/07/19 14:08
05/07/19 15:12	86	11/07/19 14:47	57	17/07/19 15:08
05/07/19 16:12	73	11/07/19 15:47	70	17/07/19 16:08
05/07/19 17:12	68	11/07/19 16:47	60	17/07/19 17:08
05/07/19 18:12	69	11/07/19 17:47	53	17/07/19 18:08
05/07/19 19:12	84	11/07/19 18:47	64	17/07/19 19:08
05/07/19 20:12	77	11/07/19 19:47	68	17/07/19 20:08
05/07/19 21:12	77	11/07/19 20:47	62	17/07/19 21:08
05/07/19 22:12	69	11/07/19 21:47	68	17/07/19 22:08
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06/07/19 00:12	79	11/07/19 23:47	77	18/07/19 00:08
06/07/19 01:12	84	12/07/19 00:47	83	18/07/19 01:08
06/07/19 02:12	77	12/07/19 01:47	74	18/07/19 02:08
06/07/19 03:12	80	12/07/19 02:47	68	18/07/19 03:08
06/07/19 04:12	66	12/07/19 03:47	72	18/07/19 04:08
06/07/19 05:12	66	12/07/19 04:47	68	18/07/19 05:08
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Average	77	Average	67	Average
Action Level	200	Action Level	200	Action Level
Limit Level	260	Limit Level	260	Limit Level
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Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration ($\mu g/m^3$)]
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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.

TSP Concentration (μg/m³) 66

260

AMS6 - Shatin Plaza				
Date and Time	TSP Concentration (µg/m ³)	Ι Γ	Date and Time	TSP Concentration (µg/m ³)
03/08/19 07:11	57		09/08/19 11:31	80
03/08/19 08:11	69		09/08/19 12:31	76
03/08/19 09:11	83		09/08/19 13:31	77
03/08/19 10:11	90		09/08/19 14:31	80
03/08/19 11:11	95		09/08/19 15:31	78
03/08/19 12:11	98		09/08/19 16:31	59
03/08/19 13:11	104		09/08/19 17:31	97
03/08/19 14:11	97		09/08/19 18:31	83
03/08/19 15:11	90		09/08/19 19:31	78
03/08/19 16:11	90 80		09/08/19 19:31	91
	77			87
03/08/19 17:11			09/08/19 21:31	
03/08/19 18:11	95		09/08/19 22:31	90
03/08/19 19:11	95		09/08/19 23:31	94
03/08/19 20:11	87		10/08/19 00:31	91
03/08/19 21:11	80		10/08/19 01:31	78
03/08/19 22:11	71		10/08/19 02:31	78
03/08/19 23:11	69		10/08/19 03:31	80
04/08/19 00:11	67		10/08/19 04:31	63
04/08/19 01:11	70		10/08/19 05:31	67
04/08/19 02:11	70		10/08/19 06:31	95
04/08/19 03:11	66		10/08/19 07:31	98
04/08/19 04:11	70		10/08/19 08:31	94
04/08/19 05:11	64		10/08/19 09:31	77
04/08/19 06:11	60		10/08/19 10:31	64
Average	79		Average	81
Action Level	165		Action Level	165
		-		
Limit Level	260		Limit Level	260
Date and Time	TSP Concentration (µg/m ³)		Date and Time	TSP Concentration (µg/m³)
Date and Time 21/08/19 09:04	TSP Concentration (μg/m ³) 55		Date and Time 27/08/19 09:01	TSP Concentration (μg/m ³) 78
Date and Time 21/08/19 09:04 21/08/19 10:04	TSP Concentration (μg/m³) 55 49		Date and Time 27/08/19 09:01 27/08/19 10:01	TSP Concentration (μg/m³) 78 73
Date and Time 21/08/19 09:04 21/08/19 10:04 21/08/19 11:04	TSP Concentration (μg/m ³) 55 49 49		Date and Time 27/08/19 09:01 27/08/19 10:01 27/08/19 11:01	TSP Concentration (μg/m³) 78 73 70
Date and Time 21/08/19 09:04 21/08/19 10:04 21/08/19 11:04 21/08/19 12:04	TSP Concentration (μg/m³) 55 49 49 49 46		Date and Time 27/08/19 09:01 27/08/19 10:01 27/08/19 11:01 27/08/19 12:01	TSP Concentration (μg/m[*]) 78 73 70 67
Date and Time 21/08/19 09:04 21/08/19 10:04 21/08/19 11:04 21/08/19 12:04 21/08/19 13:04	TSP Concentration (µg/m³) 55 49 49 46 44		Date and Time 27/08/19 09:01 27/08/19 10:01 27/08/19 11:01 27/08/19 12:01 27/08/19 13:01	TSP Concentration (μg/m[*]) 78 73 70 67 73
Date and Time 21/08/19 09:04 21/08/19 10:04 21/08/19 11:04 21/08/19 12:04 21/08/19 12:04 21/08/19 13:04 21/08/19 14:04	TSP Concentration (μg/m ³) 55 49 49 46 44 51		Date and Time 27/08/19 09:01 27/08/19 10:01 27/08/19 11:01 27/08/19 12:01 27/08/19 13:01 27/08/19 14:01	TSP Concentration (μg/m [*]) 78 73 70 67 73 62
Date and Time 21/08/19 09:04 21/08/19 10:04 21/08/19 11:04 21/08/19 12:04 21/08/19 12:04 21/08/19 13:04 21/08/19 13:04 21/08/19 15:04	TSP Concentration (µg/m ⁸) 55 49 49 46 46 44 51 53		Date and Time 27/08/19 09:01 27/08/19 10:01 27/08/19 11:01 27/08/19 12:01 27/08/19 13:01 27/08/19 14:01 27/08/19 15:01	TSP Concentration (μg/m³) 78 73 70 67 73 62 69
Date and Time 21/08/19 09:04 21/08/19 10:04 21/08/19 11:04 21/08/19 12:04 21/08/19 13:04 21/08/19 15:04 21/08/19 15:04	TSP Concentration (μg/m³) 55 49 46 41 51 53 44		Date and Time 27/08/19 09:01 27/08/19 10:01 27/08/19 11:01 27/08/19 12:01 27/08/19 13:01 27/08/19 14:01 27/08/19 15:01 27/08/19 16:01	TSP Concentration (μg/m [*]) 78 73 70 67 73 62 69 63
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Date and Time 21/08/19 09:04 21/08/19 10:04 21/08/19 11:04 21/08/19 12:04 21/08/19 12:04 21/08/19 14:04 21/08/19 14:04 21/08/19 15:04 21/08/19 16:04 21/08/19 18:04 21/08/19 18:04	TSP Concentration (µg/m [®]) 55 49 49 46 44 51 53 44 43 55 51		Date and Time 27/08/19 09:01 27/08/19 10:01 27/08/19 11:01 27/08/19 12:01 27/08/19 13:01 27/08/19 14:01 27/08/19 15:01 27/08/19 16:01 27/08/19 17:01	TSP Concentration (μg/m²) 78 73 70 67 73 62 69 63 67
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Date and Time 21/08/19 09:04 21/08/19 09:04 21/08/19 10:04 21/08/19 11:04 21/08/19 13:04 21/08/19 13:04 21/08/19 13:04 21/08/19 13:04 21/08/19 13:04 21/08/19 13:04 21/08/19 17:04 21/08/19 12:04 21/08/19 12:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 21/08/19 20:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 22/08/19 00:04 <	TSP Concentration (µg/m³) 55 49 46 44 51 53 44 43 55 51 57 44 43 55 51 57 44 49 53 44 49 53 44 55 57 44 53 44 53 44 55 57 48		Date and Time 27/08/19 09:01 27/08/19 10:01 27/08/19 11:01 27/08/19 12:01 27/08/19 13:01 27/08/19 14:01 27/08/19 15:01 27/08/19 15:01 27/08/19 18:01 27/08/19 19:01 27/08/19 20:01 27/08/19 22:01 27/08/19 22:01 28/08/19 00:01 28/08/19 00:01 28/08/19 03:01 28/08/19 05:01 28/08/19 05:01 28/08/19 07:01 28/08/19 07:01 28/08/19 07:01 28/08/19 07:01 28/08/19 07:01 28/08/19 07:01 28/08/19 08:01	TSP Concentration (μg/m*) 78 73 70 67 73 62 69 63 67 66 66 55 56 59 64 57 59 51 53 54 50 56 57

Date and Time	TSP Concentration (µg/m ³)
15/08/19 10:43	69
15/08/19 11:43	81
15/08/19 12:43	76
15/08/19 13:43	74
15/08/19 14:43	80
15/08/19 15:43	80
15/08/19 16:43	74
15/08/19 17:43	77
15/08/19 18:43	81
15/08/19 19:43	87
15/08/19 20:43	90
15/08/19 21:43	91
15/08/19 22:43	84
15/08/19 23:43	94
16/08/19 00:43	91
16/08/19 01:43	81
16/08/19 02:43	83
16/08/19 03:43	88
16/08/19 04:43	80
16/08/19 05:43	81
16/08/19 06:43	73
16/08/19 07:43	88
16/08/19 08:43	92
16/08/19 09:43	85
Average	83
Action Level	165
Limit Level	260

AMS7A - Sheung V Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)	Date
04/05/19 10:46	22	10/05/19 09:56	41	16/0
04/05/19 11:46	24	10/05/19 10:56	42	16/0
04/05/19 12:46	24	10/05/19 11:56	47	16/0
04/05/19 13:46	24	10/05/19 12:56	44	16/0
04/05/19 14:46	25	10/05/19 13:56	40	16/0
04/05/19 15:46	24	10/05/19 14:56	39	16/0
04/05/19 16:46	25	10/05/19 15:56	36	16/0
04/05/19 17:46	25	10/05/19 16:56	37	16/0
04/05/19 18:46	24	10/05/19 17:56	38	16/0
04/05/19 19:46	23	10/05/19 18:56	41	16/0
04/05/19 20:46	30	10/05/19 19:56	47	16/0
04/05/19 21:46	31	10/05/19 20:56	45	16/0
04/05/19 22:46	31	10/05/19 21:56	52	16/0
04/05/19 23:46	32	10/05/19 22:56	57	16/0
05/05/19 00:46	22	10/05/19 23:56	69	16/0
05/05/19 01:46	27	11/05/19 00:56	70	16/0
05/05/19 02:46	26	11/05/19 01:56	67	17/0
05/05/19 03:46	29	11/05/19 02:56	48	17/0
05/05/19 04:46	28	11/05/19 03:56	40	17/0
05/05/19 05:46	29	11/05/19 04:56	34	17/0
05/05/19 06:46	20	11/05/19 05:56	37	17/0
05/05/19 07:46	21	11/05/19 06:56	38	17/0
05/05/19 08:46	23	11/05/19 07:56	36	17/0
05/05/19 09:46	24	11/05/19 08:56	35	17/0
Average	26	Average	45	
Average Action Level	171	Action Level	171	A
Average		· · · · ·		A
Average Action Level Limit Level	171 260	Action Level Limit Level	171 260	
Average Action Level Limit Level Date and Time	171	Action Level Limit Level Date and Time	171	
Average Action Level Limit Level Date and Time 22/05/19 11:01	171 260 TSP Concentration (μg/m[*]) 59	Action Level Limit Level Date and Time 28/05/19 11:14	171 260 TSP Concentration (µg/m³)	
Average Action Level Limit Level Date and Time 22/05/19 11:01 22/05/19 12:01	171 260 TSP Concentration (μg/m³)	Action Level Limit Level Date and Time 28/05/19 11:14 28/05/19 12:14	171 260 TSP Concentration (μg/m ³) 81 96	
Average Action Level Limit Level Date and Time 22/05/19 11:01 22/05/19 12:01 22/05/19 13:01	171 260 TSP Concentration (μg/m³) 59 63	Action Level Limit Level 28/05/19 11:14 28/05/19 12:14 28/05/19 13:14	171 260 TSP Concentration (µg/m [®]) 81 96 105	
Average Action Level Limit Level Date and Time 22/05/19 11:01 22/05/19 12:01 22/05/19 13:01 22/05/19 14:01	171 260 TSP Concentration (μg/m[*]) 59 63 79	Action Level Limit Level 28/05/19 11:14 28/05/19 12:14 28/05/19 13:14 28/05/19 13:14	171 260 TSP Concentration (μg/m ³) 81 96	
Average Action Level Limit Level Date and Time 22/05/19 11:01 22/05/19 12:01 22/05/19 13:01	171 260 TSP Concentration (µg/m³) 59 63 79 79 74	Action Level Limit Level 28/05/19 11:14 28/05/19 12:14 28/05/19 13:14	171 260 TSP Concentration (μg/m ⁸) 81 96 105 114	
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Date and Time	TSP Concentration (µg/m ³)
16/05/19 08:35	45
16/05/19 09:35	41
16/05/19 10:35	50
16/05/19 11:35	45
16/05/19 12:35	43
16/05/19 13:35	37
16/05/19 14:35	40
16/05/19 15:35	42
16/05/19 16:35	45
16/05/19 17:35	51
16/05/19 18:35	51
16/05/19 19:35	53
16/05/19 20:35	61
16/05/19 21:35	64
16/05/19 22:35	67
16/05/19 23:35	66
17/05/19 00:35	56
17/05/19 01:35	54
17/05/19 02:35	41
17/05/19 03:35	42
17/05/19 04:35	43
17/05/19 05:35	43
17/05/19 06:35	32
17/05/19 07:35	41
Average	48
Action Level	171
Limit Level	260

AMS7A - Sheung W	No Che				
Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m³)
03/06/19 09:19	68	08/06/19 09:05	59	14/06/19 09:07	49
03/06/19 10:19	72	08/06/19 10:05	67	14/06/19 10:07	53
03/06/19 11:19	78	08/06/19 11:05	57	14/06/19 11:07	61
03/06/19 12:19	84	08/06/19 12:05	56	14/06/19 12:07	61
03/06/19 13:19	80	08/06/19 13:05	67	14/06/19 13:07	68
03/06/19 14:19	68	08/06/19 14:05	68	14/06/19 14:07	65
03/06/19 15:19	72	08/06/19 15:05	76	14/06/19 15:07	59
03/06/19 16:19	74	08/06/19 16:05	81	14/06/19 16:07	59
03/06/19 17:19	78	08/06/19 17:05	81	14/06/19 17:07	53
03/06/19 18:19	78	08/06/19 18:05	67	14/06/19 18:07	51
03/06/19 19:19	70	08/06/19 19:05	70	14/06/19 19:07	57
03/06/19 20:19	67	08/06/19 20:05	59	14/06/19 20:07	59
03/06/19 21:19	76	08/06/19 21:05	54	14/06/19 21:07	65
03/06/19 22:19	80	08/06/19 22:05	48	14/06/19 22:07	63
03/06/19 23:19	68	08/06/19 23:05	56	14/06/19 23:07	63
04/06/19 00:19	70	09/06/19 00:05	56	15/06/19 00:07	55
04/06/19 01:19	74	09/06/19 01:05	57	15/06/19 01:07	55
04/06/19 02:19	78	09/06/19 02:05	54	15/06/19 02:07	49
04/06/19 03:19	68	09/06/19 03:05	52	15/06/19 03:07	49
04/06/19 04:19	65	09/06/19 04:05	63	15/06/19 04:07	48
04/06/19 05:19	65	09/06/19 05:05	59	15/06/19 05:07	48
04/06/19 06:19	67	09/06/19 06:05	70	15/06/19 06:07	44
04/06/19 07:19	70	09/06/19 07:05	59	15/06/19 07:07	53
04/06/19 08:19	74	09/06/19 08:05	67	15/06/19 08:07	48
Average	73	Average	63	Average	56
Action Level	171	Action Level	171	Action Level	171
Limit Level	260	Limit Level	260	Limit Level	260
				-	
Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m³)	Date and Time	TSP Concentration (µg/m³)
19/06/19 09:03	69	25/06/19 08:49	108	29/06/19 11:19	25
19/06/19 09:03 19/06/19 10:03	69 73	25/06/19 08:49 25/06/19 09:49	108 126	29/06/19 11:19 29/06/19 12:19	25 19
19/06/19 09:03 19/06/19 10:03 19/06/19 11:03	69 73 59	25/06/19 08:49 25/06/19 09:49 25/06/19 10:49	108 126 122	29/06/19 11:19 29/06/19 12:19 29/06/19 13:19	25 19 19
19/06/19 09:03 19/06/19 10:03 19/06/19 11:03 19/06/19 12:03	69 73 59 62	25/06/19 08:49 25/06/19 09:49 25/06/19 10:49 25/06/19 11:49	108 126 122 122	29/06/19 11:19 29/06/19 12:19 29/06/19 13:19 29/06/19 14:19	25 19 19 19
19/06/19 09:03 19/06/19 10:03 19/06/19 11:03 19/06/19 12:03 19/06/19 13:03	69 73 59 62 68	25/06/19 08:49 25/06/19 09:49 25/06/19 10:49 25/06/19 11:49 25/06/19 12:49	108 126 122 122 122 124	29/06/19 11:19 29/06/19 12:19 29/06/19 13:19 29/06/19 14:19 29/06/19 15:19	25 19 19 19 23
19/06/19 09:03 19/06/19 10:03 19/06/19 11:03 19/06/19 12:03 19/06/19 13:03 19/06/19 14:03	69 73 59 62 68 71	25/06/19 08:49 25/06/19 09:49 25/06/19 10:49 25/06/19 11:49 25/06/19 12:49 25/06/19 13:49	108 126 122 122 122 124 132	29/06/19 11:19 29/06/19 12:19 29/06/19 13:19 29/06/19 14:19 29/06/19 15:19 29/06/19 16:19	25 19 19 19 23 21
19/06/19 09:03 19/06/19 10:03 19/06/19 11:03 19/06/19 12:03 19/06/19 13:03 19/06/19 14:03 19/06/19 15:03	69 73 59 62 68 71 77	25/06/19 08:49 25/06/19 09:49 25/06/19 10:49 25/06/19 11:49 25/06/19 13:49 25/06/19 13:49 25/06/19 14:49	108 126 122 122 124 132 132 130	29/06/19 11:19 29/06/19 12:19 29/06/19 13:19 29/06/19 14:19 29/06/19 15:19 29/06/19 16:19 29/06/19 16:19	25 19 19 19 23 21 23
19/06/19 09:03 19/06/19 10:03 19/06/19 11:03 19/06/19 12:03 19/06/19 13:03 19/06/19 14:03 19/06/19 15:03 19/06/19 16:03	69 73 59 62 68 71	25/06/19 08:49 25/06/19 09:49 25/06/19 10:49 25/06/19 11:49 25/06/19 12:49 25/06/19 13:49	108 126 122 122 122 124 132	29/06/19 11:19 29/06/19 12:19 29/06/19 13:19 29/06/19 14:19 29/06/19 15:19 29/06/19 15:19 29/06/19 17:19 29/06/19 18:19	25 19 19 19 23 21 23 25
19/06/19 09:03 19/06/19 10:03 19/06/19 11:03 19/06/19 12:03 19/06/19 13:03 19/06/19 14:03 19/06/19 15:03 19/06/19 15:03 19/06/19 17:03	69 73 59 62 68 71 77 80 80 84	25/06/19 08:49 25/06/19 09:49 25/06/19 10:49 25/06/19 11:49 25/06/19 12:49 25/06/19 13:49 25/06/19 15:49 25/06/19 15:49	108 126 122 122 124 132 130 134 141	29/06/19 11:19 29/06/19 12:19 29/06/19 13:19 29/06/19 14:19 29/06/19 15:19 29/06/19 16:19 29/06/19 16:19 29/06/19 18:19 29/06/19 18:19	25 19 19 23 21 23 25 25 25
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19/06/19 09:03 19/06/19 10:03 19/06/19 11:03 19/06/19 12:03 19/06/19 13:03 19/06/19 13:03 19/06/19 15:03 19/06/19 16:03 19/06/19 18:03 19/06/19 19:03 19/06/19 19:03	69 73 59 62 68 71 77 80 84 90 95 91	25/06/19 08:49 25/06/19 09:49 25/06/19 10:49 25/06/19 11:49 25/06/19 11:49 25/06/19 13:49 25/06/19 15:49 25/06/19 15:49 25/06/19 16:49 25/06/19 18:49 25/06/19 18:49	108 126 122 122 124 130 130 134 141 141 137 130	29/06/19 11:19 29/06/19 12:19 29/06/19 13:19 29/06/19 14:19 29/06/19 15:19 29/06/19 15:19 29/06/19 17:19 29/06/19 18:19 29/06/19 18:19 29/06/19 21:19 29/06/19 21:19 29/06/19 22:19	25 19 19 23 21 23 25 25 25 23 25 23 23 23 23
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VIS7A - Sheung Wo Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m
05/07/19 09:25	59	11/07/19 09:18	71	17/07/19 09:41	52
5/07/19 10:25	67	11/07/19 10:18	67	17/07/19 10:41	49
5/07/19 11:25	56	11/07/19 11:18	60	17/07/19 11:41	41
5/07/19 12:25	78	11/07/19 12:18	58	17/07/19 12:41	52
5/07/19 13:25	86	11/07/19 13:18	56	17/07/19 13:41	56
5/07/19 14:25	79	11/07/19 14:18	66	17/07/19 14:41	34
5/07/19 15:25	93	11/07/19 15:18	71	17/07/19 15:41	49
5/07/19 16:25	63	11/07/19 16:18	73	17/07/19 16:41	52
5/07/19 17:25	63	11/07/19 17:18	79	17/07/19 17:41	30
5/07/19 18:25	76	11/07/19 18:18	77	17/07/19 18:41	60
5/07/19 19:25	76	11/07/19 19:18	69	17/07/19 19:41	58
5/07/19 20:25	81	11/07/19 20:18	69	17/07/19 20:41	56
05/07/19 21:25	78	11/07/19 21:18	60	17/07/19 21:41	54
5/07/19 22:25	67	11/07/19 22:18	56	17/07/19 22:41	49
5/07/19 23:25	67	11/07/19 23:18	52	17/07/19 23:41	50
06/07/19 00:25	63	12/07/19 00:18	52	18/07/19 00:41	52
6/07/19 01:25	63	12/07/19 01:18	41	18/07/19 01:41	52
06/07/19 02:25	64	12/07/19 02:18	49	18/07/19 02:41	60
6/07/19 03:25	52	12/07/19 03:18	56	18/07/19 03:41	45
6/07/19 04:25	48	12/07/19 04:18	58	18/07/19 04:41	34
6/07/19 05:25	57	12/07/19 05:18	64	18/07/19 05:41	34
06/07/19 06:25	63	12/07/19 06:18	56	18/07/19 06:41	49
6/07/19 07:25	68	12/07/19 07:18	52	18/07/19 07:41	32
06/07/19 08:25	74	12/07/19 08:18	54	18/07/19 08:41	34
Average	68	Average	61	Average	47
Action Level	171	Action Level	171	Action Level	171
Limit Level	260	Limit Level	260	Limit Level	260
ate and Time					
	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)		
23/07/19 10:18	TSP Concentration (μg/m³) 49	Date and Time 29/07/19 09:11	TSP Concentration (μg/m ³) 40		
23/07/19 10:18 23/07/19 11:18	49 41	29/07/19 09:11 29/07/19 10:11	40 42		
23/07/19 10:18 23/07/19 11:18	49	29/07/19 09:11	40		
23/07/19 10:18 23/07/19 11:18 23/07/19 12:18	49 41	29/07/19 09:11 29/07/19 10:11	40 42		
23/07/19 10:18	49 41 54	29/07/19 09:11 29/07/19 10:11 29/07/19 11:11	40 42 40		
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Action Level 171 Action Level 171	21/08/19 08:30 21/08/19 09:30 21/08/19 10:30 21/08/19 11:30 21/08/19 12:30 21/08/19 14:30 21/08/19 15:30 21/08/19 15:30 21/08/19 16:30 21/08/19 16:30 21/08/19 19:30 21/08/19 20:30 21/08/19 21:30 21/08/19 22:30 21/08/19 22:30 21/08/19 23:30 22/08/19 00:30 22/08/19 00:30 22/08/19 03:30 22/08/19 04:30 22/08/19 04:30 22/08/19 05:30	66 77 70 50 77 94 101 87 68 81 61 66 57 63 70 79 87 70 59 61 72 79	27/08/19 09:23 27/08/19 10:23 27/08/19 11:23 27/08/19 11:23 27/08/19 13:23 27/08/19 13:23 27/08/19 13:23 27/08/19 15:23 27/08/19 15:23 27/08/19 15:23 27/08/19 15:23 27/08/19 19:23 27/08/19 19:23 27/08/19 22:23 27/08/19 22:23 27/08/19 22:23 28/08/19 00:23 28/08/19 05:23	50 50 55 73 81 63 56 56 56 56 64 63 70 52 51 55 56 78 78 78 78 78 57 64 60	
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Remark

AMS8 - Lek Yuen I	Estate				
Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m³)
03/06/19 10:12	54	08/06/19 09:19	46	14/06/19 09:31	73
03/06/19 11:12	56	08/06/19 10:19	60	14/06/19 10:31	86
03/06/19 12:12	62	08/06/19 11:19	56	14/06/19 11:31	96
03/06/19 13:12	70	08/06/19 12:19	67	14/06/19 12:31	99
03/06/19 14:12	68	08/06/19 13:19	69	14/06/19 13:31	86
03/06/19 15:12	68	08/06/19 14:19	72	14/06/19 14:31	79
03/06/19 16:12	66	08/06/19 15:19	67	14/06/19 15:31	77
03/06/19 17:12	76	08/06/19 16:19	70	14/06/19 16:31	54
03/06/19 18:12	82	08/06/19 17:19	76	14/06/19 17:31	64
03/06/19 19:12	80	08/06/19 18:19	74	14/06/19 18:31	64
03/06/19 20:12	78	08/06/19 19:19	74	14/06/19 19:31	69
03/06/19 21:12	72	08/06/19 20:19	67	14/06/19 20:31	73
03/06/19 22:12	62	08/06/19 21:19	69	14/06/19 21:31	79
03/06/19 23:12	70	08/06/19 22:19	59	14/06/19 22:31	79
04/06/19 00:12	72	08/06/19 23:19	67	14/06/19 23:31	66
04/06/19 00:12	72	09/06/19 00:19	70	15/06/19 00:31	69
04/06/19 01:12	60	09/06/19 00:19	70 82	15/06/19 00:31	60
04/06/19 02:12	56	09/06/19 01:19	82 78	15/06/19 02:31	52
04/06/19 03:12	56	09/06/19 02:19	78 59	15/06/19 02:31	52 47
04/06/19 04:12 04/06/19 05:12	54 58	09/06/19 03:19	59	15/06/19 03:31	47 49
04/06/19 05:12	58 62	09/06/19 04:19	67		49 54
				15/06/19 05:31	
04/06/19 07:12	66	09/06/19 06:19	69	15/06/19 06:31	52
04/06/19 08:12	70	09/06/19 07:19	54	15/06/19 07:31	64
04/06/19 09:12	64	09/06/19 08:19	52	15/06/19 08:31	58
Average	67	Average	66	Average	69
Action Level	161 260	Action Level	161	Action Level	161
Limit Level	260	Limit Level	260	Limit Level	260
Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m³)	Date and Time	TSP Concentration (µg/m ³)
Date and Time 19/06/19 11:02	TSP Concentration (μg/m ³) 60	Date and Time 25/06/19 08:37	TSP Concentration (μg/m ³) 149	Date and Time 29/06/19 10:31	18
19/06/19 11:02	60	25/06/19 08:37	149	29/06/19 10:31	18
19/06/19 11:02 19/06/19 12:02	60 66	25/06/19 08:37 25/06/19 09:37	149 103	29/06/19 10:31 29/06/19 11:31	18 26
19/06/19 11:02 19/06/19 12:02 19/06/19 13:02	60 66 69	25/06/19 08:37 25/06/19 09:37 25/06/19 10:37	149 103 109	29/06/19 10:31 29/06/19 11:31 29/06/19 12:31	18 26 23
19/06/19 11:02 19/06/19 12:02 19/06/19 13:02 19/06/19 14:02	60 66 69 77	25/06/19 08:37 25/06/19 09:37 25/06/19 10:37 25/06/19 11:37	149 103 109 117	29/06/19 10:31 29/06/19 11:31 29/06/19 12:31 29/06/19 13:31	18 26 23 23
19/06/19 11:02 19/06/19 12:02 19/06/19 13:02 19/06/19 14:02 19/06/19 15:02	60 66 69 77 62	25/06/19 08:37 25/06/19 09:37 25/06/19 10:37 25/06/19 11:37 25/06/19 12:37	149 103 109 117 113	29/06/19 10:31 29/06/19 11:31 29/06/19 12:31 29/06/19 13:31 29/06/19 14:31	18 26 23 23 25
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19/06/19 11:02 19/06/19 12:02 19/06/19 13:02 19/06/19 13:02 19/06/19 15:02 19/06/19 15:02 19/06/19 15:02 19/06/19 19:02 19/06/19 20:02 19/06/19 20:02 19/06/19 22:02 20/06/19 00:02 20/06/19 00:02 20/06/19 00:02 20/06/19 05:02 20/06/19 05:02	60 66 69 77 62 45 56 75 96 103 96 94 75 79 79 79 79 79 75 77 71 71 79 73	25/06/19 08:37 25/06/19 09:37 25/06/19 10:37 25/06/19 11:37 25/06/19 11:37 25/06/19 12:37 25/06/19 15:37 25/06/19 15:37 25/06/19 15:37 25/06/19 19:37 25/06/19 20:37 25/06/19 21:37 25/06/19 22:37 25/06/19 23:37 26/06/19 00:37 26/06/19 02:37 26/06/19 03:37	149 103 109 117 113 113 111 115 117 120 120 113 107 105 105 101 101 97 92 92	$\begin{array}{c} 29/06/19\ 10:31\\ 29/06/19\ 10:31\\ 29/06/19\ 11:31\\ 29/06/19\ 12:31\\ 29/06/19\ 12:31\\ 29/06/19\ 13:31\\ 29/06/19\ 14:31\\ 29/06/19\ 16:31\\ 29/06/19\ 16:31\\ 29/06/19\ 16:31\\ 29/06/19\ 20:31\\ 29/06/19\ 20:31\\ 30/06/19\ 00:31\\$	18 26 23 25 23 25 29 23 18 26 18 26 18 25 25 23 27 27 27 27 27 27 27 27 27 27
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AMS8 - Lek Yuen Es	state				
Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)
05/07/19 10:12	70	11/07/19 09:47	87	17/07/19 10:11	40
05/07/19 11:12	76	11/07/19 10:47	79	17/07/19 11:11	44
05/07/19 12:12	82	11/07/19 11:47	72	17/07/19 12:11	44
05/07/19 13:12	83	11/07/19 12:47	68	17/07/19 13:11	44
05/07/19 14:12	83	11/07/19 13:47	75	17/07/19 14:11	44
05/07/19 15:12	89	11/07/19 14:47	75	17/07/19 15:11	40
05/07/19 16:12	95	11/07/19 15:47	77	17/07/19 16:11	33
05/07/19 17:12	100	11/07/19 16:47	79	17/07/19 17:11	33
05/07/19 18:12	104	11/07/19 17:47	83	17/07/19 18:11	37
05/07/19 19:12	95	11/07/19 18:47	70	17/07/19 19:11	40
05/07/19 20:12	82	11/07/19 19:47	60	17/07/19 20:11	33
05/07/19 21:12	78	11/07/19 20:47	70	17/07/19 21:11	29
05/07/19 22:12	70	11/07/19 21:47	72	17/07/19 22:11	51
05/07/19 23:12	76	11/07/19 22:47	77	17/07/19 23:11	44
06/07/19 00:12	67	11/07/19 23:47	75	18/07/19 00:11	44
06/07/19 01:12	72	12/07/19 00:47	62	18/07/19 01:11	48
06/07/19 02:12	72	12/07/19 01:47	64	18/07/19 02:11	49
06/07/19 03:12	78	12/07/19 02:47	68	18/07/19 03:11	53
06/07/19 04:12	76	12/07/19 03:47	72	18/07/19 04:11	57
06/07/19 05:12	70	12/07/19 04:47	66	18/07/19 05:11	55
06/07/19 06:12	76	12/07/19 05:47	66	18/07/19 06:11	44
06/07/19 07:12	83	12/07/19 06:47	60	18/07/19 07:11	46
06/07/19 08:12	78	12/07/19 07:47	57	18/07/19 08:11	40
06/07/19 09:12	81	12/07/19 08:47	81	18/07/19 09:11	38
Average	81	Average	72	Average	43
Action Level	161	Action Level	161	Action Level	161
Limit Level	260	Limit Level	260	Limit Level	260
Data and Time	TCD Concentration (united)	Data and Time	TED Concentration (users)	·	
Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (μg/m ³)		
23/07/19 11:04	64	29/07/19 11:07	51	· · · · ·	
23/07/19 11:04 23/07/19 12:04	64 68	29/07/19 11:07 29/07/19 12:07	51 51		
23/07/19 11:04 23/07/19 12:04 23/07/19 13:04	64 68 73	29/07/19 11:07 29/07/19 12:07 29/07/19 13:07	51 51 64		
23/07/19 11:04 23/07/19 12:04 23/07/19 13:04 23/07/19 14:04	64 68 73 81	29/07/19 11:07 29/07/19 12:07 29/07/19 13:07 29/07/19 13:07 29/07/19 14:07	51 51 64 60		
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23/07/19 11:04 23/07/19 12:04 23/07/19 13:04 23/07/19 14:04 23/07/19 15:04 23/07/19 16:04	64 68 73 81 81 79	29/07/19 11:07 29/07/19 12:07 29/07/19 13:07 29/07/19 13:07 29/07/19 15:07 29/07/19 16:07	51 51 64 60 57 59		
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Remark

AMS13 - Fung Wo	Estate				
Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m³)
03/06/19 10:37	48	08/06/19 10:25	80	14/06/19 10:13	76
03/06/19 11:37	40	08/06/19 11:25	61	14/06/19 11:13	74
03/06/19 12:37	51	08/06/19 12:25	61	14/06/19 12:13	67
03/06/19 13:37	53	08/06/19 13:25	57	14/06/19 13:13	52
03/06/19 14:37	57	08/06/19 14:25	59	14/06/19 14:13	69
03/06/19 15:37	57	08/06/19 15:25	53	14/06/19 15:13	72
03/06/19 16:37	51	08/06/19 16:25	49	14/06/19 16:13	67
03/06/19 17:37	48	08/06/19 17:25	59	14/06/19 17:13	57
03/06/19 18:37	40	08/06/19 18:25	68	14/06/19 18:13	56
03/06/19 19:37	38	08/06/19 19:25	72	14/06/19 19:13	56
03/06/19 20:37	40	08/06/19 20:25	80	14/06/19 20:13	48
03/06/19 21:37	44	08/06/19 21:25	84	14/06/19 21:13	45
03/06/19 22:37	49	08/06/19 22:25	99	14/06/19 22:13	54
03/06/19 23:37	55	08/06/19 23:25	103	14/06/19 23:13	57
04/06/19 00:37	59	09/06/19 00:25	95	15/06/19 00:13	59
04/06/19 01:37	49	09/06/19 01:25	80	15/06/19 01:13	67
04/06/19 02:37	53	09/06/19 02:25	72	15/06/19 02:13	70
04/06/19 03:37	59	09/06/19 03:25	53	15/06/19 03:13	82
04/06/19 04:37	60	09/06/19 04:25	53	15/06/19 04:13	74
04/06/19 05:37	66	09/06/19 05:25	55	15/06/19 05:13	59
04/06/19 06:37	59	09/06/19 06:25	63	15/06/19 06:13	59
04/06/19 07:37	53	09/06/19 07:25	68	15/06/19 07:13	57
04/06/19 08:37	49	09/06/19 08:25	61	15/06/19 08:13	48
04/06/19 09:37	48	09/06/19 09:25	63	15/06/19 09:13	57
Average	51	Average	69	Average	62
Action Level	174	Action Level	174	Action Level	174
Limit Level	260	Limit Level	260	Limit Level	260
Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)	Date and Time	TSP Concentration (µg/m ³)
Date and Time 19/06/19 09:37	101	Date and Time 25/06/19 08:26	TSP Concentration (μg/m³) 51	Date and Time 29/06/19 10:46	43
19/06/19 09:37 19/06/19 10:37	101 106	25/06/19 08:26 25/06/19 09:26	51 53	29/06/19 10:46 29/06/19 11:46	43 37
19/06/19 09:37	101	25/06/19 08:26	51	29/06/19 10:46	43
19/06/19 09:37 19/06/19 10:37	101 106	25/06/19 08:26 25/06/19 09:26	51 53	29/06/19 10:46 29/06/19 11:46	43 37
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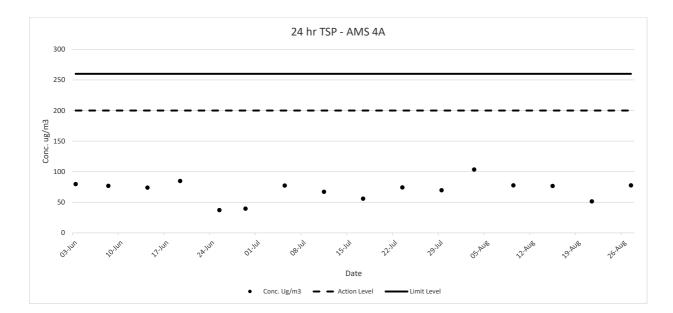
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05/07/19 16:40	57	11/07/19 16:07	84	17/07/19 16:41	83
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05/07/19 18:40	53	11/07/19 18:07	53	17/07/19 18:41	68
05/07/19 19:40	42	11/07/19 19:07	55	17/07/19 19:41	68
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06/07/19 00:40	53	12/07/19 00:07	57	18/07/19 00:41	53
06/07/19 01:40	57	12/07/19 01:07	51	18/07/19 01:41	60
06/07/19 02:40	61	12/07/19 02:07	51	18/07/19 02:41	59
06/07/19 03:40	53	12/07/19 03:07	53	18/07/19 03:41	68
06/07/19 04:40	55	12/07/19 04:07	49	18/07/19 04:41	72
06/07/19 05:40	57	12/07/19 05:07	57	18/07/19 05:41	77
06/07/19 06:40	65	12/07/19 06:07	61	18/07/19 06:41	77
06/07/19 07:40	57	12/07/19 07:07	57	18/07/19 07:41	72
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Average	52	Average	61	Average	68
Action Level	172	Action Level	172	Action Level	172
Limit Level	260	Limit Level	260	Limit Level	260
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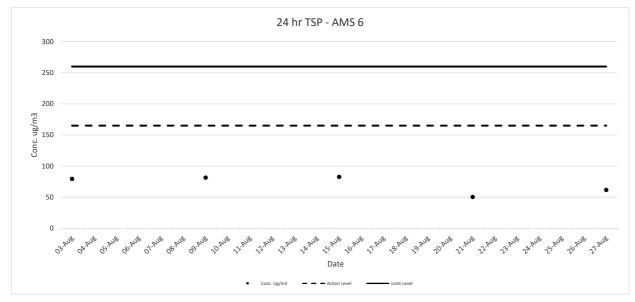
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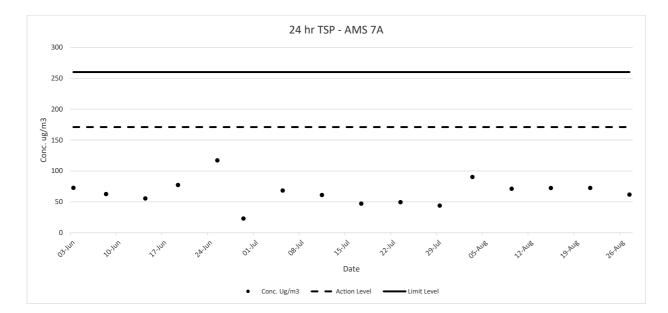
AMS15 - Ha Wo Che	TCD Companying (1 8	Data and The	TCD Council of 1 1 *	P-4
Date and Time	TSP Concentration (μg/m ³)	Date and Time	TSP Concentration (μg/m ³)	Date and Time
03/08/19 07:00	44	09/08/19 09:41	81	15/08/19 11:59
03/08/19 08:00	42	09/08/19 10:41	89 79	15/08/19 12:59
03/08/19 09:00	48	09/08/19 11:41		15/08/19 13:59
03/08/19 10:00	52	09/08/19 12:41	87	15/08/19 14:59
03/08/19 11:00	50	09/08/19 13:41	81	15/08/19 15:59
03/08/19 12:00	52	09/08/19 14:41	87	15/08/19 16:59
03/08/19 13:00	50	09/08/19 15:41	92	15/08/19 17:59
03/08/19 14:00	54	09/08/19 16:41	91	15/08/19 18:59
03/08/19 15:00	54	09/08/19 17:41	85	15/08/19 19:59
03/08/19 16:00	56	09/08/19 18:41	83	15/08/19 20:59
03/08/19 17:00	50	09/08/19 19:41	85	15/08/19 21:5
03/08/19 18:00	52	09/08/19 20:41	79	15/08/19 22:59
03/08/19 19:00	58	09/08/19 21:41	75	15/08/19 23:59
03/08/19 20:00	62	09/08/19 22:41	71	16/08/19 00:59
03/08/19 21:00	62	09/08/19 23:41	68	16/08/19 01:59
03/08/19 22:00	60	10/08/19 00:41	64	16/08/19 02:5
03/08/19 23:00	58	10/08/19 01:41	69	16/08/19 03:5
04/08/19 00:00	56	10/08/19 02:41	66	16/08/19 04:5
04/08/19 01:00	54	10/08/19 03:41	73	16/08/19 05:5
04/08/19 02:00	50	10/08/19 04:41	69	16/08/19 06:5
04/08/19 03:00	56	10/08/19 05:41	68	16/08/19 07:5
04/08/19 04:00	52	10/08/19 06:41	68	16/08/19 08:5
04/08/19 05:00	48	10/08/19 07:41	71	16/08/19 09:5
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	172		172	Action Leve
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Limit Level Date and Time 21/08/19 08:50 21/08/19 09:50 21/08/19 10:50	260 TSP Concentration (µg/m [®]) 78 88 80	Limit Level Date and Time 27/08/19 10:27 27/08/19 11:27 27/08/19 12:27	260 TSP Concentration (µg/m ³) 64 64 66	
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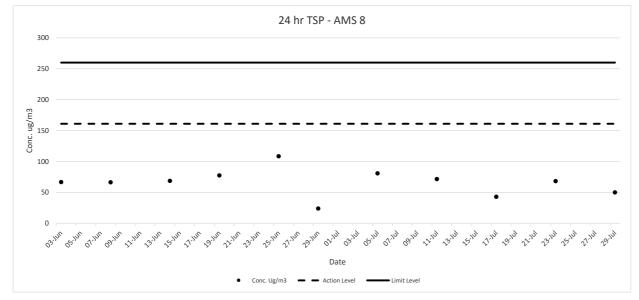
1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
 2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

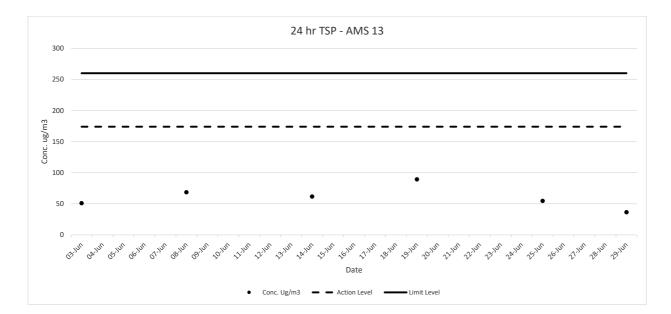
260

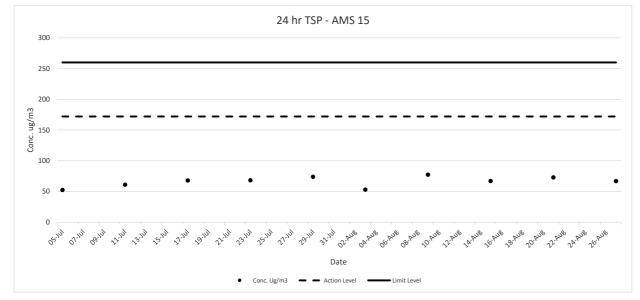












Impact Noise Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

NMS 1 Scenery Court

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				(m/s)				
11-May-19	13:02	67.6	61.5	71.0		67.6	Fine	1.0
17-May-19	13:05	66.4	60.5	67.0		66.4	Sunny	1.3
23-May-19	08:00	70.6	64.5	72.0		70.6	Fine	0.9
29-May-19	13:40	66.8	62.5	69.0		66.8	Overcast	1.3
04-Jun-19	09:04	60.9	58.0	62.5		60.9	Sunny	0.1
14-Jun-19	08:32	68.5	61.5	72.0		68.5	Overcast	0.4
20-Jun-19	13:04	69.5	64.5	72.0		69.5	Sunny	0.4
26-Jun-19	08:32	69.5	68.0	72.6		69.5	Fine	0.2
06-Jul-19	13:00	63.1	59.0	66.5	75	63.1	Fine	1.1
12-Jul-19	08:34	67.2	63.0	69.0	75	67.2	Sunny	0.5
18-Jul-19	11:32	66.1	60.5	68.0		66.1	Sunny	0.4
24-Jul-19	10:08	65.8	62.0	68.5		65.8	Sunny	0.7
30-Jul-19	10:29	66.1	62.0	68.0		66.1	Sunny	0.9
10-Aug-19	09:20	66.7	63.5	70.0]	66.7	Fine	0.6
16-Aug-19	09:16	61.8	59.0	64.0		61.8	Sunny	0.0
22-Aug-19	15:37	66.5	62.0	68.0	1	66.5	Fine	0.0
28-Aug-19	09:04	65.7	62.5	68.0	1	65.7	Fine	0.7

NMS 2 Villa Le Parc

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linin Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	IS		(m/s)
11-May-19	08:30	59.2	52.5	62.0		59.2	Fine	1.1
17-May-19	08:40	60.6	52.5	63.0		60.6	Sunny	1.2
23-May-19	13:00	61.6	50.5	62.0		61.6	Fine	1.2
29-May-19	08:35	59.0	52.0	60.5		59.0	Overcast	1.0
04-Jun-19	12:43	54.6	52.0	56.0		54.6	Sunny	0.2
14-Jun-19	13:00	58.5	50.5	60.0		58.5	Overcast	1.1
20-Jun-19	08:35	58.7	51.0	59.5		58.7	Sunny	0.6
26-Jun-19	09:11	72.0	66.0	74.5		72.0	Fine	0.1
06-Jul-19	08:32	58.6	52.0	60.5	75	58.6	Fine	0.6
12-Jul-19	13:00	61.5	52.5	62.5		61.5	Sunny	1.1
18-Jul-19	08:36	61.2	52.0	62.5		61.2	Sunny	0.9
24-Jul-19	13:48	60.5	51.0	61.0		60.5	Sunny	0.6
30-Jul-19	08:33	61.5	52.0	63.0		61.5	Sunny	0.7
10-Aug-19	11:41	60.2	51.5	62.0		60.2	Fine	0.6
16-Aug-19	11:48	56.4	53.0	58.5		56.4	Sunny	0.0
22-Aug-19	08:30	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

NMS 3 Hilton Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Lilling Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	IS		(m/s)
11-May-19	11:23	71.2	66.0	73.5		71.2	Fine	1.2
17-May-19	11:44	71.8	66.5	74.5		71.8	Sunny	0.8
23-May-19	08:34	72.3	66.0	74.5		72.3	Fine	1.2
29-May-19	13:00	72.2	66.5	74.0		72.2	Overcast	0.7
04-Jun-19	09:39	60.3	57.5	61.5		60.3	Sunny	0.2
14-Jun-19	09:06	71.6	63.5	74.0		71.6	Overcast	0.6
20-Jun-19	11:32	68.6	64.0	70.5		68.6	Sunny	0.6
26-Jun-19	09:47	68.5	64.0	72.5		68.5	Fine	0.0
06-Jul-19	13:39	70.1	66.5	72.0	75	70.1	Fine	0.7
12-Jul-19	09:08	68.6	64.0	71.0		68.6	Sunny	0.9
18-Jul-19	13:00	69.7	66.0	72.0		69.7	Sunny	0.7
24-Jul-19	10:45	69.8	63.5	73.0		69.8	Sunny	0.6
30-Jul-19	11:37	68.7	65.0	71.0		68.7	Sunny	0.6
10-Aug-19	09:56	68.1	66.0	72.0		68.1	Fine	0.4
16-Aug-19	09:52	58.3	55.5	61.0]	58.3	Sunny	0.2
22-Aug-19	09:16	69.1	65.5	71.5		69.1	Fine	0.0
28-Aug-19	14:12	67.9	64.0	71.0	1	67.9	Fine	0.3

NMS 4 Tin Liu

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	IS		(m/s)
11-May-19	09:07	72.6	66.5	75.0		72.6	Fine	1.2
17-May-19	09:18	73.1	67.0	76.0		73.1	Sunny	1.0
23-May-19	11:33	72.1	66.0	75.5		72.1	Fine	1.3
29-May-19	09:11	72.1	67.5	76.5		72.1	Overcast	1.2
04-Jun-19	11:24	64.1	61.5	67.0		64.1	Sunny	0.2
14-Jun-19	11:25	71.6	66.0	74.5		71.6	Overcast	0.5
20-Jun-19	09:10	71.6	65.0	73.5		71.6	Sunny	0.4
26-Jun-19	10:22	70.5	68.0	75.5		70.5	Fine	0.2
06-Jul-19	09:10	69.7	62.5	72.0	75	69.7	Fine	0.4
12-Jul-19	11:31	71.6	63.0	72.5	75	71.6	Sunny	0.5
18-Jul-19	09:47	70.6	63.0	72.0		70.6	Sunny	0.4
24-Jul-19	09:11	67.2	63.0	70.5		67.2	Sunny	0.4
30-Jul-19	09:45	70.6	64.5	72.0		70.6	Sunny	0.0
10-Aug-19	12:15	70.1	66.0	73.0		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

NMS 5A Wai Wah Centre

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				(m/s)				
11-May-19	10:48	72.8	67.5	74.5		72.8	Fine	1.1
17-May-19	10:58	70.9	66.0	73.0		70.9	Sunny	1.4
23-May-19	09:08	73.6	69.5	77.0		73.6	Fine	1.4
29-May-19	11:33	74.1	69.5	77.0		74.1	Overcast	0.9
04-Jun-19	10:13	68.9	66.0	70.5		68.9	Sunny	0.3
14-Jun-19	09:41	73.8	69.0	77.0		73.8	Overcast	0.7
20-Jun-19	10:54	72.6	68.5	74.5		72.6	Sunny	0.4
26-Jun-19	11:17	69.5	66.5	74.0		69.5	Fine	0.2
06-Jul-19	11:36	73.6	69.0	76.5	75	73.6	Fine	0.6
12-Jul-19	09:47	72.0	68.0	73.5	75	72.0	Sunny	0.4
18-Jul-19	13:38	72.1	68.0	74.5		72.1	Sunny	0.9
24-Jul-19	11:19	71.8	67.5	74.0		71.8	Sunny	1.0
30-Jul-19	13:00	72.0	67.5	74.5		72.0	Sunny	0.2
10-Aug-19	10:31	71.8	68.0	74.0		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

NMS 6A Wai Wah Centre

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Lillin Level	Construction Noise Level	Weather	Speed
				(m/s)				
11-May-19	10:16	73.2	68.5	76.5		73.2	Fine	1.2
17-May-19	10:25	74.0	66.5	78.0		74.0	Sunny	1.1
23-May-19	09:41	74.2	69.0	77.5		74.2	Fine	1.1
29-May-19	11:00	73.7	69.0	76.5		73.7	Overcast	1.6
04-Jun-19	10:47	69.4	67.0	71.0		69.4	Sunny	0.3
14-Jun-19	10:16	72.1	68.5	76.5		72.1	Overcast	0.6
20-Jun-19	10:20	70.8	68.0	72.0		70.8	Sunny	0.3
26-Jun-19	11:50	71.0	67.0	74.5		71.0	Fine	0.5
06-Jul-19	11:04	72.1	68.5	75.0	75	72.1	Fine	0.7
12-Jul-19	10:20	73.8	70.0	77.0	75	73.8	Sunny	0.5
18-Jul-19	09:16	73.6	69.5	77.0		73.6	Sunny	0.8
24-Jul-19	13:08	73.2	69.5	76.5		73.2	Sunny	1.1
30-Jul-19	13:34	72.8	68.0	75.0		72.8	Sunny	0.4
10-Aug-19	11:06	70.1	67.0	73.5		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

NMS 7 Tin Liu

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				(m/s)				
11-May-19	09:40	74.1	68.0	77.5		74.1	Fine	1.6
17-May-19	09:50	74.7	69.0	78.0		74.7	Sunny	1.4
23-May-19	11:01	73.0	66.0	77.5		73.0	Fine	1.0
29-May-19	09:44	73.6	69.0	78.0		73.6	Overcast	0.7
04-Jun-19	11:58	63.3	61.0	65.0		63.3	Sunny	0.1
14-Jun-19	10:51	74.1	66.5	78.0		74.1	Overcast	0.4
20-Jun-19	09:43	73.8	66.0	77.0		73.8	Sunny	0.3
26-Jun-19	13:21	70.0	68.5	75.0		70.0	Fine	0.1
06-Jul-19	09:43	72.6	64.0	75.0	75	72.6	Fine	0.6
12-Jul-19	10:57	74.7	66.0	78.0	75	74.7	Sunny	0.4
18-Jul-19	10:20	73.6	65.0	77.0		73.6	Sunny	0.6
24-Jul-19	09:44	74.5	65.0	78.0		74.5	Sunny	0.6
30-Jul-19	09:09	74.1	68.5	76.5		74.1	Sunny	0.4
10-Aug-19	12:47	74.1	67.0	76.5		74.1	Fine	0.3
16-Aug-19	13:37	64.6	61.0	67.0]	64.6	Sunny	0.0
22-Aug-19	14:00	72.3	67.4	75.2		72.3	Fine	0.0
28-Aug-19	11:20	72.1	67.0	74.0]	72.1	Fine	0.5

NMS 8 Shatin Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	IS		(m/s)
10-May-19	10:11	66.2	65.0	68.5		66.2	Sunny	0.2
16-May-19	08:35	70.6	66.5	73.0		70.6	Sunny	1.0
22-May-19	08:02	71.2	66.0	74.0		71.2	Fine	0.7
28-May-19	08:33	72.1	66.5	75.5		72.1	Overcast	1.2
03-Jun-19	08:31	69.6	63.5	72.0		69.6	Overecast	0.6
13-Jun-19	08:30	71.1	66.5	73.0		71.1	Overecast	1.1
19-Jun-19	09:35	65.9	63.5	68.0		65.9	Sunny	0.2
25-Jun-19	08:34	66.3	64.5	68.5		66.3	Fine	0.9
05-Jul-19	13:35	66.4	63.5	67.5	75	66.4	Sunny	0.0
11-Jul-19	08:35	67.8	64.0	71.0		67.8	Sunny	0.6
17-Jul-19	09:05	71.6	64.5	72.5		71.6	Sunny	1.0
23-Jul-19	08:38	70.6	63.5	72.5		70.6	Sunny	0.4
29-Jul-19	09:08	72.0	67.0	74.5		72.0	Sunny	0.0
09-Aug-19	13:36	63.8	62.0	65.0		63.8	Sunny	0.1
15-Aug-19	09:33	68.6	66.0	71.0		68.6	Sunny	0.8
21-Aug-19	08:44	65.7	63.0	67.0		65.7	Sunny	0.1
27-Aug-19	08:36	67.3	63.5	70.5	1	67.3	Fine	0.4

NMS 9 Lek Yuen Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind Speed (m/s)
Date	Start Time	Leq	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	
				Unit	t: dB(A) 30 Min	S		
10-May-19	10:47	65.0	62.0	67.0		65.0	Sunny	0.1
16-May-19	09:46	67.4	60.5	69.5		67.4	Sunny	1.4
22-May-19	09:11	68.6	66.5	71.5		68.6	Fine	1.1
28-May-19	09:09	70.6	67.0	72.0		70.6	Overcast	1.1
03-Jun-19	09:46	70.7	66.5	73.0]	70.7	Overecast	1.0
13-Jun-19	09:41	70.6	65.0	72.0]	70.6	Overecast	0.6
19-Jun-19	10:20	64.4	61.5	66.0	1	64.4	Sunny	0.0
25-Jun-19	09:47	64.7	62.0	67.5		64.7	Fine	0.6
05-Jul-19	10:50	65.1	63.0	66.5	75	65.1	Sunny	0.1
11-Jul-19	09:49	68.6	63.0	70.5		68.6	Sunny	0.7
17-Jul-19	09:44	66.5	62.0	69.0		66.5	Sunny	0.5
23-Jul-19	13:00	69.2	64.5	72.5		69.2	Sunny	0.5
29-Jul-19	09:38	69.6	66.0	73.0		69.6	Sunny	0.7
09-Aug-19	08:42	66.7	61.5	69.0		66.7	Sunny	0.0
15-Aug-19	10:10	67.6	61.5	69.0		67.6	Sunny	0.5
21-Aug-19	09:20	66.1	62.5	67.5		66.1	Sunny	0.4
27-Aug-19	09:48	66.6	61.0	69.5		66.6	Fine	0.6

NMS 10A Shatin Tsung Tsin School

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Lea	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
					t: dB(A) 30 Min	s		(m/s)
10-May-19	11:21	65.8	60.5	68.5		65.8	Sunny	0.1
16-May-19	10:23	63.2	58.5	64.5	70	63.2	Sunny	1.0
22-May-19	09:45	70.6	66.0	73.0	70	64.7*	Fine	1.4
28-May-19	09:43	63.1	58.5	65.0		63.1	Overcast	1.5
03-Jun-19	10:20	64.0	58.5	66.0	65	64.0	Overecast	1.1
13-Jun-19	10:09	62.7	58.0	64.5		62.7	Overecast	0.7
19-Jun-19	10:57	65.4	60.5	68.0		65.4	Sunny	0.3
25-Jun-19	10:24	65.9	60.5	68.0		65.9	Fine	0.8
05-Jul-19	10:01	66.3	60.0	69.5		66.3	Sunny	0.0
11-Jul-19	10:26	63.1	59.5	64.5		63.1	Sunny	1.1
17-Jul-19	10:20	62.1	58.0	64.0		62.1	Sunny	0.7
23-Jul-19	13:44	65.2	61.0	66.0	70	65.2	Sunny	0.9
29-Jul-19	10:14	66.0	61.0	67.5		66.0	Sunny	0.6
09-Aug-19	10:17	62.4	58.5	63.0]	62.4	Sunny	0.3
15-Aug-19	10:47	65.6	61.0	67.5		65.6	Sunny	0.8
21-Aug-19	09:26	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

 27-Aug-19
 10:26
 64.7
 61.0
 66.5
 64.7
 Fine
 0.8

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

NMS 11 Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Min	IS		(m/s)
10-May-19	11:58	60.8	52.5	63.0		60.8	Sunny	0.3
16-May-19	16:02	66.5	61.5	69.0		66.5	Sunny	1.4
22-May-19	13:00	66.1	60.5	68.0		66.1	Fine	1.1
28-May-19	13:00	66.4	61.0	69.0		66.4	Overcast	1.4
03-Jun-19	13:00	67.6	60.5	69.0		67.6	Overecast	0.8
13-Jun-19	13:44	70.1	62.5	72.5		70.1	Overecast	0.7
19-Jun-19	11:33	61.1	54.0	63.0		61.1	Sunny	0.1
25-Jun-19	11:01	60.4	57.0	63.0		60.4	Fine	0.6
05-Jul-19	11:33	61.1	53.5	64.5	75	61.1	Sunny	0.1
11-Jul-19	13:38	66.2	61.5	67.5	75	66.2	Sunny	0.5
17-Jul-19	13:33	67.6	61.5	69.0		67.6	Sunny	0.3
23-Jul-19	10:23	66.2	60.5	67.0		66.2	Sunny	0.7
29-Jul-19	15:58	66.1	61.0	67.5		66.1	Sunny	0.4
09-Aug-19	11:41	60.0	51.0	62.0		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

NMS 12 SKH Holy Spirit Primary School

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	s		(m/s)
10-May-19	12:36	59.5	55.5	62.0		59.5	Sunny	0.2
16-May-19	10:57	62.8	57.5	64.5	70	62.8	Sunny	1.2
22-May-19	10:19	64.6	61.5	69.0	70	64.6	Fine	0.7
28-May-19	10:17	64.2	60.0	66.0		64.2	Overcast	1.0
03-Jun-19	10:56	62.7	57.5	64.5	65	62.7	Overecast	1.1
13-Jun-19	10:44	63.9	59.0	66.0		63.9	Overecast	0.9
19-Jun-19	13:07	58.5	55.5	61.0		58.5	Sunny	0.3
25-Jun-19	11:39	59.3	56.0	62.0		59.3	Fine	0.7
05-Jul-19	10:40	64.8	59.5	68.0		64.8	Sunny	0.1
11-Jul-19	11:02	64.7	60.0	66.0		64.7	Sunny	0.7
17-Jul-19	10:56	64.7	60.0	65.5		64.7	Sunny	1.1
23-Jul-19	14:20	64.2	60.0	65.0	70	64.2	Sunny	0.9
29-Jul-19	10:51	64.7	59.0	65.5		64.7	Sunny	0.8
09-Aug-19	11:02	62.0	57.0	62.5		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

NMS 13 Lek Yuen Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linin Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	S		(m/s)
10-May-19	13:18	55.4	53.5	63.0		55.4	Sunny	0.2
16-May-19	11:30	63.0	61.5	67.5		63.0	Sunny	0.8
22-May-19	10:53	70.6	63.0	72.5		70.6	Fine	0.9
28-May-19	10:52	71.0	63.5	73.0		71.0	Overcast	1.2
03-Jun-19	11:31	68.6	63.0	72.0		68.6	Overecast	0.7
13-Jun-19	11:20	68.2	63.0	70.5		68.2	Overecast	0.6
19-Jun-19	13:48	55.8	52.5	59.0		55.8	Sunny	0.5
25-Jun-19	13:00	60.6	55.0	63.5		60.6	Fine	0.5
05-Jul-19	10:00	61.9	60.5	63.5	75	61.9	Sunny	0.4
11-Jul-19	11:38	69.1	63.5	71.0	75	69.1	Sunny	0.4
17-Jul-19	11:30	67.6	63.5	69.0		67.6	Sunny	0.6
23-Jul-19	11:35	66.7	64.5	68.0		66.7	Sunny	0.8
29-Jul-19	11:29	67.1	63.0	69.0		67.1	Sunny	0.6
09-Aug-19	09:28	60.5	58.0	63.0		60.5	Sunny	0.1
15-Aug-19	11:24	68.0	65.0	72.0		68.0	Sunny	0.6
21-Aug-19	10:04	60.5	58.5	63.0		60.5	Sunny	0.0
27-Aug-19	11:39	67.5	64.0	70.0	1	67.5	Fine	0.7

NMS 14 Sheung Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	s	1	(m/s)
10-May-19	13:55	60.7	56.0	62.5		60.7	Sunny	0.2
16-May-19	15:28	68.2	63.5	70.5		68.2	Sunny	1.2
22-May-19	11:30	68.1	60.5	69.5	1	68.1	Fine	1.1
28-May-19	11:33	67.6	60.0	69.0		67.6	Overcast	1.5
03-Jun-19	09:00	66.7	61.5	68.5		66.7	Overecast	0.8
13-Jun-19	14:24	68.3	62.0	71.0	1	68.3	Overecast	0.5
19-Jun-19	09:12	68.0	62.0	70.5	1	68.0	Sunny	0.3
25-Jun-19	08:36	66.6	60.5	68.0	1	66.6	Fine	0.4
05-Jul-19	11:27	62.7	58.5	66.0	75	62.7	Sunny	0.2
11-Jul-19	14:11	64.5	61.0	67.0	1	64.5	Sunny	0.7
17-Jul-19	14:09	66.7	60.5	68.0	1	66.7	Sunny	0.5
23-Jul-19	10:58	67.1	61.0	68.5	1	67.1	Sunny	0.6
29-Jul-19	15:22	65.7	60.5	66.5	1	65.7	Sunny	0.9
09-Aug-19	10:01	57.4	55.0	60.0	1	57.4	Sunny	0.0
15-Aug-19	16:05	66.1	60.0	67.0	1	66.1	Sunny	0.4
21-Aug-19	11:58	63.0	57.0	65.5	1	63.0	Sunny	0.0
27-Aug-19	10:45	66.1	60.5	67.5	1	66.1	Fine	0.7

NMS 15 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	s		(m/s)
11-May-19	11:16	65.1	61.5	66.0		65.1	Fine	0.8
17-May-19	10:17	64.9	60.0	66.0		64.9	Sunny	1.1
23-May-19	11:40	65.8	61.0	67.0		65.8	Fine	0.7
29-May-19	11:46	69.2	63.5	73.0		69.2	Overcast	1.1
04-Jun-19	15:09	63.8	61.0	65.5		63.8	Sunny	0.2
14-Jun-19	16:38	66.8	62.0	69.0		66.8	Overcast	0.9
20-Jun-19	16:11	66.2	61.0	68.0		66.2	Sunny	0.4
26-Jun-19	13:55	71.5	66.0	72.5		71.5	Fine	0.1
06-Jul-19	15:20	67.2	62.1	69.0	75	67.2	Fine	0.6
12-Jul-19	14:23	68.1	64.0	70.0		68.1	Sunny	0.3
18-Jul-19	13:47	67.0	62.0	69.0		67.0	Sunny	0.6
24-Jul-19	10:45	66.7	61.0	68.0		66.7	Sunny	0.0
30-Jul-19	14:11	66.1	60.0	68.5		66.1	Sunny	0.5
10-Aug-19	14:38	66.5	62.5	68.0	1	66.5	Fine	0.2
16-Aug-19	14:58	63.2	60.0	65.0	1	63.2	Sunny	0.2
22-Aug-19	09:30	64.3	59.6	67.2		64.3	Fine	0.3
28-Aug-19	10:23	68.2	64.5	70.5		68.2	Fine	0.7

NMS 16 Ha Wo Che

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Unit	:: dB(A) 30 Min	IS		(m/s)
11-May-19	10:41	66.8	62.0	68.5		66.8	Fine	1.3
17-May-19	10:41	67.0	63.5	69.5		67.0	Sunny	0.8
23-May-19	11:06	66.8	61.5	67.5		66.8	Fine	1.1
29-May-19	11:14	68.7	63.0	71.5		68.7	Overcast	1.3
04-Jun-19	15:44	62.4	58.0	64.5		62.4	Sunny	0.2
14-Jun-19	16:02	65.5	60.5	67.0		65.5	Overcast	0.6
20-Jun-19	15:37	67.1	61.5	69.0		67.1	Sunny	0.6
26-Jun-19	14:33	70.0	67.5	71.0		70.0	Fine	0.2
06-Jul-19	15:56	66.2	63.0	68.0	75	66.2	Fine	1.0
12-Jul-19	14:57	67.5	63.5	68.5	75	67.5	Sunny	0.8
18-Jul-19	13:02	66.1	60.0	67.5		66.1	Sunny	0.7
24-Jul-19	11:21	66.9	61.5	69.0		66.9	Sunny	0.7
30-Jul-19	14:45	65.8	60.0	68.0		65.8	Sunny	0.3
10-Aug-19	15:14	66.8	63.0	69.0		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

NMS 17 Shatin Pui Ying College

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Uni	t: dB(A) 30 Min	IS		(m/s)
10-May-19	14:36	60.3	58.0	62.0		60.3	Sunny	0.2
16-May-19	13:41	64.6	58.5	66.0	70	64.6	Sunny	1.1
22-May-19	16:40	64.0	59.5	65.0	10	64.0	Fine	1.0
28-May-19	16:21	64.1	59.0	65.5		64.1	Overcast	1.3
03-Jun-19	09:38	68.1	62.0	71.5		62.2*	Overecast	1.2
13-Jun-19	10:02	64.2	60.0	66.0	65	64.2	Overecast	0.9
19-Jun-19	09:49	66.5	61.0	68.0		66.5^	Sunny	0.4
25-Jun-19	09:52	63.8	60.5	65.0		63.8	Fine	0.8
05-Jul-19	09:20	66.7	61.5	70.0		66.7	Sunny	0.1
11-Jul-19	15:22	62.5	58.0	64.5	70	62.5	Sunny	1.1
17-Jul-19	15:21	66.5	61.5	67.5		66.5^	Sunny	0.7
23-Jul-19	15:33	65.7	61.0	66.5		65.7	Sunny	0.7
29-Jul-19	13:38	64.3	59.5	66.0	65	64.3	Sunny	0.4
09-Aug-19	11:28	60.2	58.0	62.0		60.2	Sunny	0.2
15-Aug-19	14:17	63.8	59.0	65.0	70	63.8	Sunny	0.8
21-Aug-19	10:37	68.1	65.0	69.5	70	68.1	Sunny	0.0
27-Aug-19	13:02	64.6	60.5	66.0]	64.6	Fine	0.4

Note: *Since the measured noise level was greater than the limit level, construction noise level (CNL) was appplied 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)).

0.3

Fine

66.0

66.0

58.5

11:40

28-Aug-19

		Measured Noise Level			Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L ₉₀	L ₁₀	Linit Level	Constituction Noise Level	Weather	Speed
				Unit	t: dB(A) 30 Min	s		(m/s)
11-May-19	10:05	67.6	61.5	71.0		67.6	Fine	1.4
17-May-19	11:30	65.8	60.5	68.0		65.8	Fine	1.1
23-May-19	10:26	67.6	60.0	69.0		67.6	Fine	1.2
29-May-19	10:20	67.6	62.5	69.5		67.6	Fine	1.7
04-Jun-19	16:19	60.7	58.0	63.0		60.7	Sunny	0.2
14-Jun-19	15:27	66.4	60.5	68.5		66.4	Overcast	0.4
20-Jun-19	15:02	66.2	60.5	67.5		66.2	Sunny	0.3
26-Jun-19	15:17	72.5	66.0	78.5		72.5	Fine	0.4
06-Jul-19	16:31	65.6	60.5	66.5	75	65.6	Fine	1.1
12-Jul-19	15:30	66.1	59.0	67.0	75	66.1	Sunny	0.4
18-Jul-19	11:14	65.1	61.0	67.5		65.1	Sunny	0.4
24-Jul-19	13:09	66.1	60.0	67.5		66.1	Sunny	0.4
30-Jul-19	15:19	64.9	59.0	67.0		64.9	Sunny	0.0
10-Aug-19	16:02	65.2	61.0	66.0		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

68.0

NMS 19 Wo Che Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Uni	: dB(A) 30 Min	S		(m/s)
10-May-19	15:11	67.4	64.0	70.0		67.4	Sunny	0.2
16-May-19	14:14	66.3	60.5	69.0		66.3	Sunny	1.2
22-May-19		67.5	63.0	71.0		67.5	Fine	0.9
28-May-19	15:40	68.6	63.5	72.0		68.6	Overcast	0.8
03-Jun-19	10:14	70.6	63.5	74.0		70.6	Overecast	0.9
13-Jun-19	10:38	66.2	63.0	69.0		66.2	Overecast	0.4
19-Jun-19	11:08	67.2	63.0	70.0		67.2	Sunny	0.6
25-Jun-19	11:10	66.7	61.5	68.5		66.7	Fine	0.7
05-Jul-19	08:42	61.8	57.0	64.5	75	61.8	Sunny	0.2
11-Jul-19	15:58	68.4	66.0	71.0	75	68.4	Sunny	0.8
17-Jul-19	15:56	66.7	63.0	68.0		66.7	Sunny	0.6
23-Jul-19	16:11	67.0	63.0	69.0		67.0	Sunny	0.4
29-Jul-19	14:12	66.5	63.0	69.0		66.5	Sunny	0.6
09-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

NMS 20 Wo Che Estate

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Unit	t: dB(A) 30 Min	IS		(m/s)
10-May-19	15:45	60.6	57.0	62.5		60.6	Sunny	0.2
16-May-19	14:50	70.7	62.5	72.0		70.7	Sunny	1.1
22-May-19	15:14	66.2	61.0	69.0		66.2	Fine	1.2
28-May-19	14:55	65.8	60.0	68.0		65.8	Overcast	1.0
03-Jun-19	11:33	63.4	60.0	66.0		63.4	Overecast	0.6
13-Jun-19	11:13	67.1	63.5	70.0		67.1	Overecast	0.7
19-Jun-19	11:42	68.1	63.5	70.5		68.1	Sunny	0.4
25-Jun-19	11:47	66.2	61.0	67.5		66.2	Fine	0.6
05-Jul-19	08:40	63.1	58.5	65.5	75	63.1	Sunny	0.0
11-Jul-19	16:40	66.7	63.0	69.0		66.7	Sunny	0.6
17-Jul-19	16:11	68.1	64.0	70.0		68.1	Sunny	0.5
23-Jul-19	16:52	68.1	65.0	71.5		68.1	Sunny	0.6
29-Jul-19	14:46	68.2	65.0	70.5		68.2	Sunny	0.4
09-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

NMS 23 Pai Tau

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Emit Level		Weather	Speed
				Unit	: dB(A) 30 Min	IS		(m/s)
11-May-19	13:00	67.5	62.0	69.0		67.5	Fine	0.9
17-May-19	09:40	68.0	60.5	71.5		68.0	Sunny	1.0
23-May-19	10:27	71.0	63.5	72.5		71.0	Fine	0.9
29-May-19	10:20	70.7	63.0	71.5		70.7	Overcast	0.8
04-Jun-19	14:26	61.7	57.0	63.0		61.7	Sunny	0.1
14-Jun-19	13:37	68.6	62.5	71.0		68.6	Overcast	0.5
20-Jun-19	16:53	67.2	63.5	70.5		67.2	Sunny	0.4
26-Jun-19	15:59	69.5	68.0	76.5		69.5	Fine	0.2
06-Jul-19	10:29	66.4	60.0	68.0	75	66.4	Fine	0.4
12-Jul-19	13:38	70.7	62.0	73.0		70.7	Sunny	0.7
18-Jul-19	10:56	66.8	61.5	67.5		66.8	Sunny	0.3
24-Jul-19	10:19	66.1	61.5	67.0		66.1	Sunny	0.7
						0.0		
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	09:43	66.3	63.0	69.0		66.3	Fine	0.5

NMS 24 Shatin Plaza

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	Leq	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Unit	: dB(A) 30 Min	IS		(m/s)
10-May-19	09:36	63.7	61.0	66.0		63.7	Sunny	0.2
16-May-19	09:07	71.8	67.0	74.0		71.8	Sunny	1.2
22-May-19	08:35	72.1	66.5	75.5		72.1	Fine	0.9
28-May-19	08:00	70.6	66.0	73.5		70.6	Overcast	1.4
03-Jun-19	09:04	71.2	65.5	74.5		71.2	Overecast	0.7
13-Jun-19	09:04	72.1	67.0	75.5		72.1	Overecast	0.8
19-Jun-19	08:31	64.2	62.0	65.0		64.2	Sunny	0.2
25-Jun-19	09:09	69.7	63.5	71.5		69.7	Fine	1.1
05-Jul-19	13:32	62.5	61.0	64.0		62.5	Sunny	0.0
11-Jul-19	09:08	70.6	66.0	72.0	75	70.6	Sunny	0.8
17-Jul-19	08:31	70.6	64.0	71.5		70.6	Sunny	0.8
23-Jul-19	09:11	72.1	65.0	73.5		72.1	Sunny	0.6
29-Jul-19	08:26	71.6	66.0	74.0		71.6	Sunny	0.9
09-Aug-19	08:44	61.7	60.0	63.5		61.7	Sunny	0.2
15-Aug-19	08:30	69.1	66.0	72.0		69.1	Sunny	0.4
21-Aug-19	08:42	61.4	28.0	63.0		61.4	Sunny	0.0
27-Aug-19	09:09	68.9	65.0	72.5		68.9	Fine	0.7

NMS 25A Sheung Wo Che

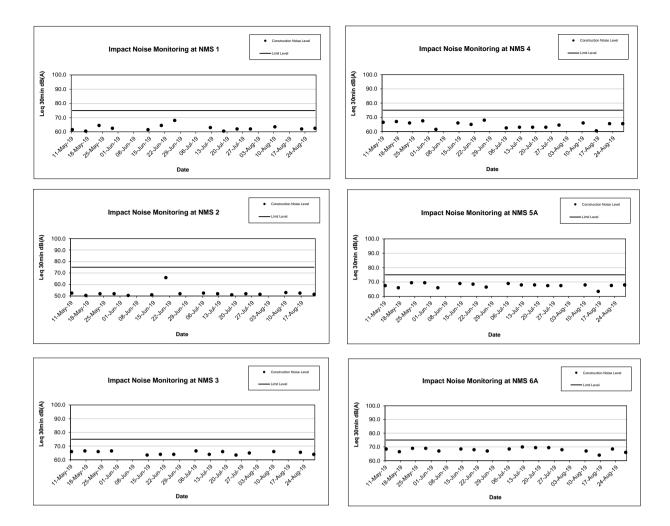
		Meas	ured Noise	Level	Limit Level	Construction Noise Lovel	Construction Noise Level		
Date	Start Time	L _{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed	
					t: dB(A) 30 Min			(m/s)	
10-May-19	17:02	70.4	67.0	72.0		70.4	Sunny	0.3	
16-May-19	16:40	69.2	62.0	73.0		69.2	Sunny	1.2	
22-May-19	13:34	70.5	63.0	72.0		70.5	Fine	1.2	
28-May-19	13:40	71.2	64.0	73.5		71.2	Overcast	1.2	
03-Jun-19	13:37	69.5	66.0	72.5		69.5	Overecast	1.1	
13-Jun-19	13:03	72.6	66.5	74.5		72.6	Overecast	0.4	
19-Jun-19	08:35	66.7	61.5	69.0		66.7	Sunny	0.3	
25-Jun-19	09:11	72.1	65.5	74.0		72.1	Fine	0.6	
05-Jul-19	12:05	67.7	57.0	70.0	75	67.7	Sunny	0.0	
11-Jul-19	13:02	72.1	66.0	75.5	75	72.1	Sunny	0.4	
17-Jul-19	13:00	72.6	66.0	75.5		72.6	Sunny	0.4	
23-Jul-19	09:50	68.6	61.5	71.0		68.6	Sunny	0.4	
29-Jul-19	16:36	70.6	63.0	74.0		70.6	Sunny	0.7	
09-Aug-19	09:23	68.4	66.0	70.5		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	09:30	72.1	65.5	74.0		72.1	Fine	0.3	

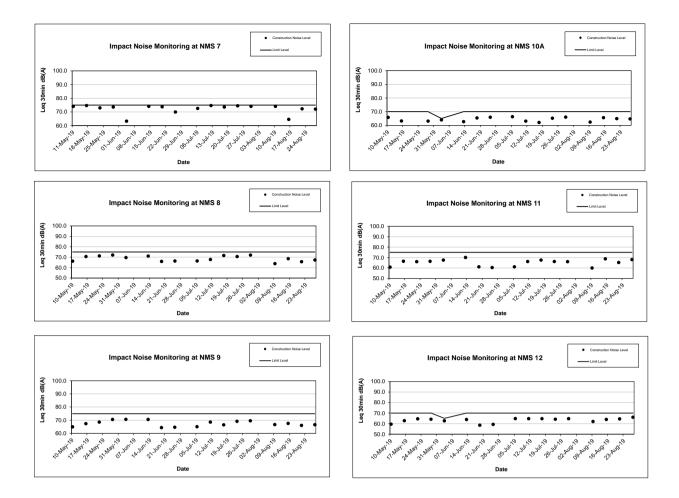
NMS 26 Wo Che Estate

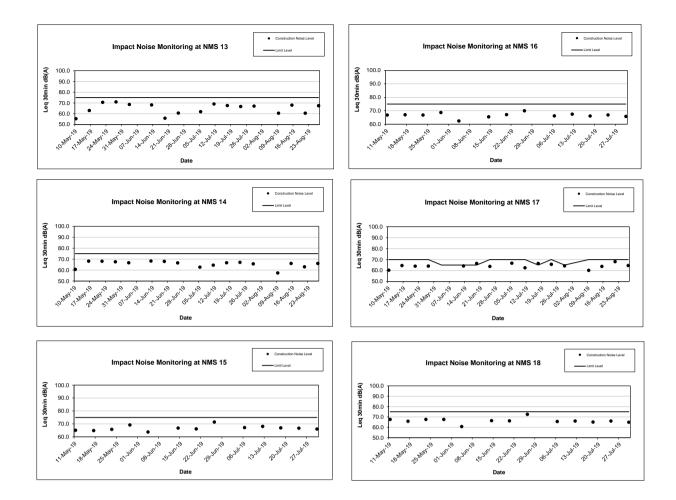
		Measured Noise Level		Limit Level	Construction Noise Level		Wind	
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Emit Level		Weather	Speed
				Unit	t: dB(A) 30 Min	S		(m/s)
10-May-19	16:26	68.2	65.5	70.5		68.2	Sunny	0.2
16-May-19	13:00	74.1	69.5	77.0		74.1	Sunny	1.3
22-May-19	14:22	73.6	53.5	78.0		73.6	Fine	0.7
28-May-19	14:16	74.5	68.5	78.0		74.5	Overcast	1.0
03-Jun-19	10:52	73.8	69.5	78.5		73.8	Overecast	1.2
13-Jun-19	09:08	73.6	69.0	78.0		73.6	Overecast	0.6
19-Jun-19	10:31	72.9	67.0	76.0		72.9	Sunny	0.7
25-Jun-19	10:32	74.1	69.5	78.5		74.1	Fine	0.6
05-Jul-19	09:17	66.2	61.0	68.0	75	66.2	Sunny	0.0
11-Jul-19	14:48	73.7	69.5	77.0	75	73.7	Sunny	0.5
17-Jul-19	14:46	74.5	69.0	78.0		74.5	Sunny	0.6
23-Jul-19	14:58	74.1	69.5	77.0		74.1	Sunny	0.6
29-Jul-19	13:02	73.7	70.0	77.0		73.7	Sunny	0.5
09-Aug-19	10:43	68.8	66.0	70.5		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

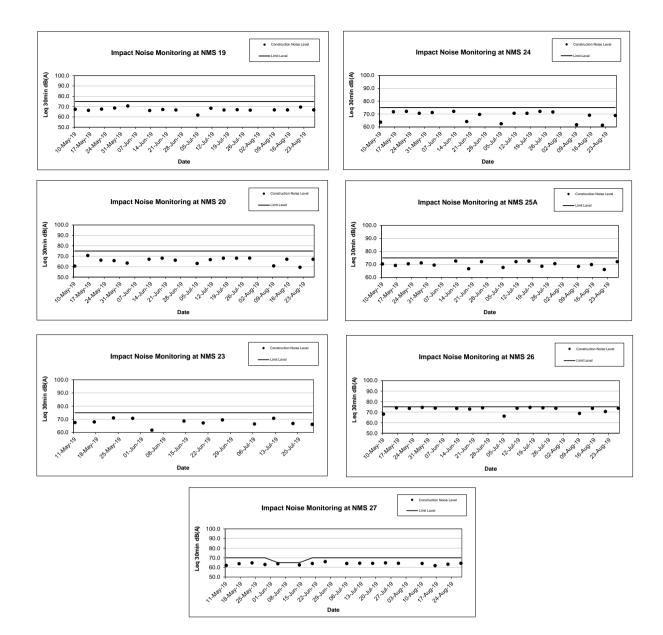
NMS 27 Jockey Club Ti-I College

		Meas	ured Noise	Level	Limit Level	Construction Noise Level		Wind
Date	Start Time	L_{eq}	L ₉₀	L ₁₀	Linit Level	Construction Noise Level	Weather	Speed
				Unit	t: dB(A) 30 Min	IS		(m/s)
11-May-19	09:10	62.1	57.5	64.0		62.1	Fine	1.0
17-May-19	13:40	63.9	57.5	65.0	70	63.9	Sunny	0.6
23-May-19	09:30	64.7	56.5	66.0	70	64.7	Fine	1.2
29-May-19	09:35	63.0	58.0	64.5		63.0	Overcast	1.0
04-Jun-19	17:04	63.8	62.0	67.0	65	63.8	Sunny	0.1
14-Jun-19	14:28	62.6	58.0	64.0	60	62.6	Overcast	0.6
20-Jun-19	14:01	64.1	60.5	66.0		64.1	Sunny	0.6
26-Jun-19	16:41	66.0	64.5	70.0		66.0	Fine	0.2
06-Jul-19	14:28	64.1	60.0	65.5		64.1	Fine	0.7
12-Jul-19	16:18	64.4	60.0	66.0		64.4	Sunny	0.9
18-Jul-19	10:24	64.2	61.0	65.5		64.2	Sunny	0.9
24-Jul-19	09:04	64.7	61.0	66.0	70	64.7	Sunny	0.8
30-Jul-19	16:50	64.3	59.5	66.0		64.3	Sunny	0.5
10-Aug-19	08:34	64.1	60.0	67.0		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	09:04	64.3	61.0	66.5		64.3	Fine	0.6









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Appendix E

Waste Flow Table

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		Actual Quant	tities of Inert C&I	D Materials Gene	erated Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Months	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
2018 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
2018 Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
2018 Dec	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
Total	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.018

Note:

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

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

3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³.

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		Actual Quant	ities of Inert C&I	D Materials Gene	rated Monthly		Actual Quantities of Non-inert C&D Wastes Generated Monthly				
Months	Total Quantity Generated (Inert C&D)	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
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
Sub-Total	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.464
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											
2019 Oct											
2019 Nov											
2019 Dec											
Total	0.822	0.000	0.221	0.000	0.601	0.000	0.000	0.000	0.000	0.000	0.687

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 m³.

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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 adhoc noise monitoring on 19:00 14th February 2019 to 07:00 15 th 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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				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 noise nuisance 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	Project-not related	Closed
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	Project-not related	Closed

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				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		
			Regarding to noise			
COM-2019- 0045	30/8/2019	1823	nuisance near Hilton Plaza and Scenery Court at 11:10 pm.	investigation.	-	-

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Environmental Parameters	Cumulative No. Brought	No. of Complaints in the Reporting Period			Cumulative Project-to-Date
	Forward	June 2019	July 2019	August 2019	··· , ····
Air	0	0	0	0	0
Noise	2	0	1	1	5
Water	0	0	0	0	0
Waste	0	0	0	0	0
Total	0	0	0	0	0

Cumulative Statistics on Complaints

Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought	No. of Com	Cumulative Project-to-Date		
	Forward	June 2019	July 2019	August 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/	Implementatio n Agent	Implementation Status in Construction Phase
	-	Noise Measures		
		• Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A).	Contractor	Implemented
		 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 constriction activities is required during evening or night time hours. 	Contractor	Implemented
3.10.2, 3.10.3, 3.10.14, 3.10.15		 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
and Table 3.10		 Use of well-maintained and regularly-serviced plant during the works. 	Contractor	Implemented
	Within the boundaries of all construction sites.	 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
3.10.4, 3.10.5		 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
and Table 3.3		 Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes 	Contractor	Not Applicable
3.10.6 to 3.10.9		 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	Contractor	Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementatio n Agent	Implementation Status in Construction Phase
		should be adopted. The barrier material shall have a surface mass of not less than 14kg/m ² on 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 ² is recommended in order to achieve the necessary screening effect.	Contractor	Not Applicable
3.10.10		• 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
3.10.3		 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
		Air Quality Measures		
4.12.1 and	Within the	• 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	Implemented
4.12.1 and 4.12.2	boundaries of all construction sites.	• 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	Implemented
		• The Contractor shall apply for a license or permit under the requirements of the relevant	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementatio n Agent	Implementation Status in Construction Phase
		legislation (e.g. Air Pollution Control Ordinance and its subsidiary regulations) wherever applicable.		
		• Watering of unpaved areas, access roads, construction areas and dusty stockpiles shall be undertaken at least eight times daily during dry and windy weather. Watering of the haul road shall be undertaken four to eight times daily during dry or windy weather. Water sprays may be either fixed or mobile to follow individual areas to be wetted as and when required. Application of suitable wetting agents, such as dust suppression chemicals, shall be used in addition to water, especially during the dry season (October to December). It is also suggested that watering with complete coverage of active construction area eight times a day.	Contractor	Implemented
		 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. 	Contractor	Implemented
		• Stockpiles of sand, aggregate or any other dusty materials greater than 20m ³ shall be enclosed on three sides, with walls extending above the pile and 1 meter beyond the front of the pile.	Contractor	Implemented
		 Suitable chemical wetting agent such as dust suppression chemical shall be used on completed cuts and fills to reduce wind erosion. 	Contractor	Not Observed
		 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. 	Contractor	Implemented
4.12.1		 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. 	Contractor	Implemented
		 Construction working areas should be restricted to a minimum practicable size. 	Contractor	Implemented
		 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. 	Contractor	Implemented
		• 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.	Contractor	Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementatio n Agent	Implementation Status in Construction Phase
		 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. 	Contractor	Not Applicable
		 In the event of any spoil or debris from construction works being deposited on adjacent land, or steams, or any slit being washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the Engineer. 	Contractor	Not Applicable
		 If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas. 	Contractor	Partially 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
		 Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005. 	Contractor	Implemented
NA		 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
		Water Quality Measures		
5.7	Within the boundaries of all construction	 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	Implemented
	sites.	 Construction works should be programmed so as to minimise excavation during the wet season 	Contractor	Implemented

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		(April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm.		
		 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. 		Partially 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. 		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	Partially 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

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		 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
		• The wastewater from the washing of the wheels and subframe of vehicles returning from the site onto public roads will contain suspended solids and debris. A washing bay should be provided at the exit from the site and should, where practicable, incorporate water recirculation. Water from the washing bay which is discharged to the storm water system should first be passed through a silt trap which also includes an oil/grease removal weir.	Contractor	Not Applicable
		• Plant maintenance areas should be paved to prevent waste oils soaking into the ground. Where possible the area should be undercover to minimise the formation of runoff and any runoff from the paved area passed through an oil trap before being discharged to the storm drains. Fuel storage tanks should be surrounded by bunds with a capacity of at least 150% of the storage capacity. The bunded areas should be able to be drained of rain water through the petrol interceptor and accumulated rain removed at regular intervals.	Contractor	Not Applicable
		 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. 	Contractor	Not Applicable
		 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. 	Contractor	Not Applicable
		 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. 	Contractor	Not Applicable

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

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

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		disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval.		
		 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. 	Contractor	Implemented
		• Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimization of waste generation in the hierarchy.	Contractor	Partially Implemented
7.6.5 to 7.6.6		 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	Within the boundaries of	• 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
	all construction sites as well as	The contractor's environmental performance shall be monitored and controlled through the week the environmental walks shall include:	dy environmental	walks. The items after
	transportation routes to	 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
	designed areas	 The environmental performance of the contractor and his sub-contractors; 	Contractor	Partially Implemented
7.6.8 to 7.6.9	for off-site disposal of	 The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and 	Contractor	Implemented
	materials/Prior to and during	• The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site.	Contractor	Implemented
	construction activities.	 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 	Contractor	Implemented

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		fill reception facilities and landfills, respectively. Appropriate measures should be employed to minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers.		
7.6.10		 Work site(s) shall be arranged and managed to facilitate the proper management of wastes and materials. The WMP shall include plans indicating specific areas designated for the storage of particular types of waste, reusable and recyclable materials as well as areas and management proposals for any stockpiling areas. Waste storage areas should be well maintained and cleaned regularly. Specific provisions for different types of material are outlined below. In general, these areas should be designed to avoid cross contamination of materials as well as pollution of the surrounding environment. 	Contractor	Partially Implemented
7.6.11 to 7.6.14		 In order to minimize the impact resulting from collection and transportation of C&D material for off-site disposal, the excavated fill materials should be reused on site as backfill material as far as possible. 		Implemented
		 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. 	Contractor	Implemented
		 C&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&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&D materials shall be reused on site as much as possible. 	Contractor	Implemented
		 Paving bricks arising from existing pavement should be recycled on site as much as possible. 	Contractor	Not Applicable
		 Existing marginal roadside barriers comprise pre-cast units should be reused in the following widening works as much as possible, 	Contractor	Not Applicable
		 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 	Contractor	Not Applicable
		 Any stockpile should be sited away from existing watercourses and suitably covered to prevent wind erosion and impacts on air and water quality. 	Contractor	Implemented

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		• Chemical waste shall be handled in accordance with the Code of Practice on the Packaging,		torage of Chemical		
		Wastes as follows. Containers used for the storage of chemical wastes should:				
		• be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;	Contractor	Implemented		
		 have a capacity of less than 450L unless the specifications have been approved by the EPD; and 	Contractor	Implemented		
		• display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C).	Contractor	Implemented		
		The storage area for chemical wastes should:				
		 be clearly labelled and used solely for the storage of chemical waste; 	Contractor	Implemented		
		be enclosed on at least 3 sides;	Contractor	Implemented		
7.6.15 to 7.6.17		 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	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		
		 to a reuser of the waste, under approval from EPD. 	Contractor	Not Applicable		
7.6.18 to 7.6.20		 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 	Contractor	Partially Implemented		

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

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