

FUGRO TECHNICAL SERVICES LIMITED

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Report No.: 0064/18/ED/0610A

QUARTERLY EM&A REPORT

June 2021 – August 2021

Client : Civil Engineering and Development
Department, HKSAR

Contract No. : NDO 03/2018

Contract Name : Road Widening and Retrofitting Noise Barriers
on Tai Po Road (Sha Tin Section)

Report No. : 0064/18/ED/0610A

Prepared by : Tommy Ho

Reviewed by : Rex Chow

Certified by : 

David Hung
Environmental Team Leader
Fugro Technical Services Limited



Our ref: PL-202109039

Unit 2813, Level 28,
Tower I, Metroplaza,
223 Hing Fong Road, Kwai Fong,
N.T., Hong Kong.

Attention: Mr. Joseph YAN

29 September 2021

Dear Joseph,

NE/2017/05

**Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)
Quarterly EM&A Report for June to August 2021**

I refer to the email of the ET dated 27 September 2021 regarding to the captioned Quarterly EM&A Report with report No. 0064/18/ED/0610A, 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,

A handwritten signature in black ink, appearing to be 'Li Wai Ming'.

Li Wai Ming Kevin
Independent Environmental Checker

cc. CRE – Mr. YU Albert (by email only: albert.yu@acem.com)
CEDD – Mr. YAN Joseph (by email only: jkcyan@cedd.gov.hk)
ETL – Mr. David Hung (by email only: d.hung@furgo.com)



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Fugro Development Centre

5 Lok Yi Street, Tai Lam

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Hong Kong

Date 29 September 2021

Our Ref. MCL/ED/0388/2021/C

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

BY HAND & E-MAIL

Dear Ms. Lau,

Contract No. NE/2017/05

Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

Environmental Permit: EP-463/2013B

Submission of Quarterly EM&A Report – June 2021 to August 2021 (0064/18/ED/0610A)

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/0610A) for your retention. This quarterly EM&A Report has been certified by ETL and verified by IEC accordingly.

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

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

David Hung
Environmental Team Leader

c.c.	CEDD	Attn: Ms. Joseph Yan / Mr. Kevin Yip (by E-mail)
	AECOM	Attn: Mr. Albert Yu / Mr. Andrew Cheng / Mr. Jacky Tse / Mr. Eric Yau (by E-mail)
	IEC	Attn: Mr. Kevin Li / Mr. Tandy Tse (by E-mail)
	CCZJV	Attn: Mr. Anthony Poon / Ms. Kimberly Wong (by E-mail)

Encl.

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Report No.: 0064/18/ED/0610A

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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 11th Quarterly EM&A Report presents the environmental monitoring and audit works for the period between 1 June 2021 and 31 August 2021. As informed by the Contractor, major activities in the reporting period included:

Date	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
June 2021	<ul style="list-style-type: none"> • Tree works (including preservation / felling / pruning / transplantaion) • Underground utilities detections • Underground utilities diversion • Noise barrier foundation works • Noise barrier erection works 	<ul style="list-style-type: none"> • Tree works (including preservation / felling / pruning / transplantaion) • Underground utilities detections • Underground utilities diversion • Noise barrier foundation works 	<ul style="list-style-type: none"> • Tree works (including preservation / felling / pruning / transplantation) • Underground utilities detections • Underground utilities diversion • Construction of cycle track subway • Noise barrier foundation works • Construction of lagging wall and retaining wall • Construction of profile barrier • Lift shaft and staircase case construction works • STRCR abutment walls construction works • Demolition of STRCR side wall and parapet • Mini pile construction works • Falseworks beam erection for N263 bridge under STRCR 	<ul style="list-style-type: none"> • Trial pits excavation • Tree works (including preservation / felling / pruning / transplantation) • NF40 and NF66 footbridge construction works • Noise barrier foundation works • Demolition of central divider, and installation of temporary median steel module • Lane shifting works 	<ul style="list-style-type: none"> • Trial pits excavation • Tree works (including preservation / felling / pruning / transplantation) • Noise barrier foundation works • Soil replacement works on slope • Mini pile construction works • Demolition of central divider, and installation of temporary median steel module • Lane shifting works
July 2021	<ul style="list-style-type: none"> • Tree Works (Including Preservation / Felling / Pruning / Transplantati on) • Construction / Diversion of Underground Utilities, Including ELS 	<ul style="list-style-type: none"> • Construction / Diversion of Underground Utilities, Including ELS Works • Noise Barrier Foundation Works • Road Reconstructio n Works and 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Construction / Diversion of Underground Utilities, Including ELS Works, Sheet Piling 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Construction / Diversion of Underground 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplantation • Noise Barrier Foundation Works • Soil

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	<p>Works</p> <ul style="list-style-type: none"> • Noise Barrier Foundation Works • Road Reconstruction Works and Sheet Pile Removal 	<p>Sheet Pile Removal</p>	<ul style="list-style-type: none"> • Retaining Wall Construction Works • Construction of Cycle Track Subway • Demolition of Existing Parapet • Noise Barrier Foundation Works • Lagging Wall Construction Works • Mini Pile Construction Works • Profile Barrier Construction Works • SR2 Foundation and Abutment Wall Construction Works • Pre-drilling Works • Abutment Wall, Lift Shaft and Staircase Column Construction Works • Falseworks Beam Erection for N263 Bridge Deck Construction – Under STRCR and Dismantling of FVMS of bridge N263 • Height Gantries Installation • Road Maintenance Works 	<p>Utilities, Including ELS Works</p> <ul style="list-style-type: none"> • NF40 Footbridge Construction Works • NF66 Footbridge Construction Works • Noise Barrier Foundation Works • Road Maintenance Works 	<p>Replacement Works on Slope</p> <ul style="list-style-type: none"> • Mini Pile Construction Works • Road Maintenance Works • Mini Pile Construction Works
<p>August 2021</p>	<ul style="list-style-type: none"> • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Noise Barrier Foundation Works • Noise Barrier Erection Works • Road Reconstruction Works and Sheet Pile Removal • Road Maintenance Works 	<ul style="list-style-type: none"> • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Noise Barrier Foundation Works • Noise Barrier Erection Works • Road Reconstruction Works and Sheet Pile Removal • Road Maintenance Works 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Construction / Diversion of Underground Utilities, Including ELS Works and Sheet Piling • Retaining Wall Construction Works • Construction of Cycle Track Subway and Stem Wall Construction Works • Demolition of Existing Parapet • Lagging Wall Construction Works 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • NF40 Footbridge Construction Works • NF66 Footbridge Construction Works • Noise Barrier Foundation Works • Road Maintenance Works 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Noise Barrier Foundation Works • Mini Pile Construction Works • Stem Wall and Drainage Construction Works • Road Maintenance Works

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			<ul style="list-style-type: none"> • Mini Pile Construction Works • Pre bore H Pile Construction Works • Profile Barrier and Stem Wall Construction Works • SR2 Foundation and Abutment Wall Construction Works • Abutment Wall, Lift Shaft, Staircase, and Socket H Pile Construction Works • Abutment Walls Demolition and Installation of Temporary Falsework for N263 Bridge Deck Construction – under STRCR • Road Maintenance Works 	<ul style="list-style-type: none"> • 7m Height Fencing Erection 	
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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.
- v. For night time construction noise monitoring, no exceedance cases were recorded between 2300 and 0700 of the next day during the reporting quarter.

Complaint, Notification of Summons and Successful Prosecution

- vi. Total two complaint cases were received during the reporting period. The 1st complaint case that included four follow-up complaints received between May and June, under the 1823 case 3-6727963845. The complainant regarded the noise nuisance generated from the day time construction works at Zone 5. The 2nd complaint case was received via EPD Regional Office (North) on 26th July, 2021. The complainant concerned the poor air quality near Paris Park Villa during 19th to 26th July and suspected that the odour nuisance was generated from the diesel machineries at Zone 4 and 5.
- vii. 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 11th 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 2021 and 31 August 2021.

1.2 Project Organization

1.2.1 The project proponent was the Civil Engineering and Development Department, HKSAR (CEDD). AECOM Asia Co. Ltd. (AECOM) was commissioned by CEDD as the Engineer for the Project. Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture was commissioned as the Independent Environmental Checker (IEC). China railway – China Railway First Group – Zhen Hua Engineering Joint Venture (CCZJV) was appointed as the main contractor for the construction works under the contract NE/2017/05. Fugro Technical Services Limited (FTS) was appointed as the Environmental Team (ET) by CEDD to implement the EM&A programme for the Project.

1.2.2 The organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project are summarized in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Proponent (CEDD)	Senior Engineer	Mr. Joseph Yan	3152 3470
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. Anthony Poon	9811 5135
	Environmental Officer	Ms. Kimberly Wong	5222 4603
ET (FTS)	Environmental Team Leader	Mr. David Hung	3565 4371



1.3 Construction Programme and Activities

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

Date	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
June 2021	<ul style="list-style-type: none"> • Tree works (including preservation / felling / pruning / transplanta tion) • Underground utilities detections • Underground utilities diversion • Noise barrier foundation works • Noise barrier erection works 	<ul style="list-style-type: none"> • Tree works (including preservation / felling / pruning / transplanta tion) • Underground utilities detections • Underground utilities diversion • Noise barrier foundation works 	<ul style="list-style-type: none"> • Tree works (including preservation / felling / pruning / transplanta tion) • Underground utilities detections • Underground utilities diversion • Construction of cycle track subway • Noise barrier foundation works • Construction of lagging wall and retaining wall • Construction of profile barrier • Lift shaft and staircase case construction works • STRCR abutment walls construction works • Demolition of STRCR side wall and parapet • Mini pile construction works • Falseworks beam erection for N263 bridge under STRCR 	<ul style="list-style-type: none"> • Trial pits excavation • Tree works (including preservation / felling / pruning / transplanta tion) • NF40 and NF66 footbridge construction works • Noise barrier foundation works • Demolition of central divider, and installation of temporary median steel module • Lane shifting works 	<ul style="list-style-type: none"> • Trial pits excavation • Tree works (including preservation / felling / pruning / transplanta tion) • Noise barrier foundation works • Soil replacement works on slope • Mini pile construction works • Demolition of central divider, and installation of temporary median steel module • Lane shifting works
July 2021	<ul style="list-style-type: none"> • Tree Works (Including Preservation / Felling / Pruning / Transplanta tion) • Construction / Diversion of Underground Utilities, Including ELS Works • Noise Barrier Foundation Works • Road Reconstruction Works and Sheet Pile Removal 	<ul style="list-style-type: none"> • Construction / Diversion of Underground Utilities, Including ELS Works • Noise Barrier Foundation Works • Road Reconstruction Works and Sheet Pile Removal 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplanta tion) • Construction / Diversion of Underground Utilities, Including ELS Works, Sheet Piling • Retaining Wall Construction Works • Construction of Cycle Track Subway • Demolition of Existing Parapet • Noise Barrier Foundation Works • Lagging Wall Construction 	<ul style="list-style-type: none"> • Tree Works (Including Preservation / Felling / Pruning / Transplanta tion) • Construction / Diversion of Underground Utilities, Including ELS Works • Noise Barrier Foundation Works • Road 	<ul style="list-style-type: none"> • Constructio n / Diversion of Underground Utilities, Including ELS Works • Noise Barrier Foundation Works • Road Reconstruction Works and Sheet Pile Removal

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	Reconstruction Works and Sheet Pile Removal		Works <ul style="list-style-type: none"> • Mini Pile Construction Works • Profile Barrier Construction Works • SR2 Foundation and Abutment Wall Construction Works • Pre-drilling Works • Abutment Wall, Lift Shaft and Staircase Column Construction Works • Falseworks Beam Erection for N263 Bridge Deck Construction – Under STRCR and Dismantling of FVMS of bridge N263 • Height Gentries Installation • Road Maintenance Works 	Reconstruction Works and Sheet Pile Removal	
August 2021	<ul style="list-style-type: none"> • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Noise Barrier Foundation Works • Noise Barrier Erection Works • Road Reconstruction Works and Sheet Pile Removal • Road Maintenance Works 	<ul style="list-style-type: none"> • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Noise Barrier Foundation Works • Noise Barrier Erection Works • Road Reconstruction Works and Sheet Pile Removal • Road Maintenance Works 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Construction / Diversion of Underground Utilities, Including ELS Works and Sheet Piling • Retaining Wall Construction Works • Construction of Cycle Track Subway and Stem Wall Construction Works • Demolition of Existing Parapet • Lagging Wall Construction Works • Mini Pile Construction Works • Pre bore H Pile Construction Works • Profile Barrier and Stem Wall Construction Works • SR2 Foundation and Abutment Wall Construction Works • Abutment Wall, Lift Shaft, Staircase, and Socket H Pile Construction Works • Abutment Walls Demolition and Installation of Temporary Falsework for N263 Bridge Deck Construction – under STRCR • Road Maintenance Works 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • NF40 Footbridge Construction Works • NF66 Footbridge Construction Works • Noise Barrier Foundation Works • Road Maintenance Works • 7m Height Fencing Erection 	<ul style="list-style-type: none"> • Trial Pits Excavation • Tree Works (Including Preservation / Felling / Pruning / Transplantation) • Noise Barrier Foundation Works • Mini Pile Construction Works • Stem Wall and Drainage Construction Works • Road Maintenance Works



1.4 Status of Environmental Licences, Notifications and Permits

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

Table 1.2 Relevant Environmental Licenses, Permits and/or Notifications

Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit for whole project	EP-463/2013/B	20/12/2016	Nil
Receipt of the notification of construction dust production	Form NA	27/07/2018	Nil
Construction Waste Disposal Account	7031619	17/08/2018	Nil
Chemical Waste Producer Registration	5318-758-C4314-01	06/11/2018	Nil
Effluent Discharge License (Zone 1 – Zone 5)	WT00032446-2018	09/11/2018	30/11/2023
Effluent Discharge License (Shui Chong Street)	WT00033829-2019	25/06/2019	30/06/2024
Construction Noise Permit for Road Closure – General Night Works (Zone 1 – 5)	GW-RN0239-21	12/05/2021	11/11/2021
Construction Noise Permit to Allow the Operation of Water Pump (Zone 3, RW 6&7)	GW-RN0202-21	01/04/2021	30/06/2021
Construction Noise Permit for removal of Central Median (Zone 4 – 5)	GW-RN0282-21	04/05/2021	03/08/2021
Construction Noise Permit for Footbridge NF66 – Concreting (Zone 5)	GW-RN0318-21	17/05/2021	14/07/2021
Construction Noise Permit for Drilling and Grouting Works for 11kV Cable Trench (Zone 4)	GW-RN0364-21	07/06/2021	06/09/2021
Construction Noise Permit for Sheet Pile Removal and Road (Surface Drain) Reconstruction Works (Zone 1 – 2)	GW-RN0365-21	08/06/2021	06/09/2021
Construction Noise Permit for Road Closure – Road Reconstruction and Lane Shifting Works (Zone 3 – 5)	GW-RN0421-21	25/06/2021	24/07/2021
Construction Noise Permit for the Operation of Water Pump (Zone 1 – 5)	GW-RN0433-21	01/07/2021	30/09/2021
Construction Noise Permit for Road Closure, Cross Road Beams Erection (Zone 3, under STRCR)	GW-RN0459-21	17/07/2021	30/09/2021
Construction Noise Permit for Road Closure, Road Maintenance and Modification Works (Zone 3)	GW-RN0598-21	22/08/2021	17/11/2021
Construction Noise Permit for Road Closure for General Night Works (Zone 1 – 5)	GW-RN0600-21	22/08/2021	19/02/2022



2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS

2.1 Monitoring Requirement

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

2.2 Monitoring Locations

2.2.1 The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works. The most updated locations are summarized in **Table 2.1** and shown in **Figure 2a**.

Table 2.1 Location of Air Quality Monitoring

Reporting Period	Monitoring Station	Location	Land uses
Jun 2021	AMS 5	Tin Liu	Residential Village
	AMS 7A	Sheung Wo Che	Residential Village
	AMS 14	Ha Wo Che	Residential Village
	AMS 17	Wo Che Estate	Residential
Jul 2021	AMS 5	Tin Liu	Residential Village
	AMS 7A	Sheung Wo Che	Residential Village
	AMS 14	Ha Wo Che	Residential Village
	AMS 17	Wo Che Estate	Residential
Aug 2021	AMS 4A	Wai Wah Centre	Residential
	AMS 7A	Sheung Wo Che	Residential Village
	AMS 12	Fung Wo Estate	Residential
	AMS 17	Wo Che Estate	Residential

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



Table 2.2 Location of Noise Monitoring Station

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

2.3 Results and Observations

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

Table 2.3 Summary of 24-hr TSP Monitoring Results

Monitoring Station	24-hr TSP ($\mu\text{g}/\text{m}^3$) in Reporting Period			Average ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
	June 2021	July 2021	August 2021			
AMS 4A	-	-	56 – 78	67	200	260
AMS 5	37 – 48	46 – 59	-	48	156	
AMS 7A	37 – 47	42 – 55	44 – 57	46	171	
AMS 12	-	-	40 – 55	48	168	
AMS 14	32 – 53	50 – 64	-	51	174	
AMS 17	36 – 55	47 – 66	59 – 72	56	171	



Table 2.4 Summary of 1-hr TSP Monitoring Results

Monitoring Station	1-hr TSP ($\mu\text{g}/\text{m}^3$) in Reporting Period			Average ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
	June 2021	July 2021	August 2021			
AMS 4A	-	-	62 – 96	79	348	500
AMS 5	41 – 72	53 – 87	-	60	340	
AMS 7A	32 – 64	45 – 70	49 – 66	55	344	
AMS 12	-	-	40 – 67	55	296	
AMS 14	33 – 72	51 – 72	-	60	350	
AMS 17	42 – 74	45 – 80	52 – 97	65	338	

2.3.2 During the reporting period, major dust sources including demolition of STRCR side wall and parapet, demolition of central divider, demolition of existing parapet and abutment wall, mini pile construction works, trial pits excavation, sheet pile removal, soil replacement on slope and road reconstruction works were observed in the site.

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



Table 2.5 Summary of Day Time Noise Impact Monitoring Results

Monitoring Station	Leq (30min) Range ,dB(A) in Reporting Period			Leq (30min) Limit Level, dB(A)
	June 2021	July 2021	August 2021	
NMS1	64.1 – 67.2	64.6 – 67.3	65.9 – 68.4	75
NMS2	52.6 – 56.6	52.3 – 55.3	53.9 – 55.0	75
NMS3	65.3 – 67.2	66.1 – 68.4	66.6 – 68.6	75
NMS4	63.9 – 66.2	64.6 – 66.0	63.8 – 67.1	75
NMS5A	69.6 – 70.5	70.0 – 71.8	68.7 – 71.3	75
NMS6A	70.8 – 71.8	70.6 – 72.7	70.0 – 71.6	75
NMS7	63.6 – 71.1	63.3 – 64.6	64.2 – 66.5	75
NMS8	65.5 – 68.3	64.4 – 66.5	64.2 – 65.5	75
NMS9	64.7 – 69.0	63.8 – 68.5	64.5 – 69.0	75
NMS10A	63.2 – 64.7	62.5 – 63.2	62.2 – 64.9	70 ^{[2][3]}
NMS11	54.0 – 65.5	58.4 – 63.3	55.9 – 58.1	75
NMS12	62.4 – 68.5	63.4 – 64.6	62.5 – 64.8	70 ^{[2][4]}
NMS13	58.6 – 65.3	59.8 – 65.4	59.3 – 60.7	75
NMS14	60.4 – 64.0	60.1 – 62.1	62.2 – 64.1	75
NMS15	56.3 – 68.3	57.3 – 62.6	58.0 – 61.8	75
NMS16	58.0 – 63.4	59.9 – 64.1	60.5 – 64.7	75
NMS17	59.7 – 63.0	61.2 – 64.7	63.3 – 64.5	70 ^{[2][5]}
NMS18	57.8 – 59.7	57.4 – 61.6	59.5 – 64.4	75
NMS19	62.9 – 67.2	64.2 – 70.0	63.2 – 68.5	75
NMS20	60.3 – 68.0	65.8 – 72.5	60.8 – 64.9	75
NMS23	62.0 – 66.7	61.3 – 67.7	62.2 – 67.3	75
NMS24	63.8 – 66.4	64.3 – 67.6	64.5 – 65.6	75
NMS25A	59.3 – 68.6	63.9 – 68.6	58.9 – 65.6	75
NMS26	68.2 – 73.4	67.4 – 71.6	66.7 – 71.9	75
NMS27	63.3 – 66.8	64.0 – 67.3	63.5 – 65.5	70 ^{[2][6]}

- 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.
 3. The limit level is 65 dB (A) for Shatin Tsung Tsin School (NMS 10A), during 2nd – 4th, 7th, 8th, 10th and 11th June 2021.
 4. The limit level is 65 dB (A) for SKH Holy Spirit Primary School (NMS 12) during 3rd - 8th June 2021.
 5. The limit level is 65 dB (A) for Shatin Pui Ying College (NMS 17) during 4th, 7th – 11th, 15th – 18th June 2021.
 6. The limit level is 65 dB (A) for Jockey Club TI-I College (NMS 27) during 15th – 28th June 2021.
 7. When the Average Measured Noise Level is greater than Limit Level and baseline level, Average Construction Noise Level (CNL) will be applied, where

$$\text{Calculated CNL} = 10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$



2.3.4 According to the Monthly EM&A reports, no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month. The results are summarized in **Table 2.6**.

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

Monitoring Station	Leq Range ,dB(A) in Reporting Period			Baseline Level, dB(A)	Leq Limit Level, dB(A)
	June 2021	July 2021	August 2021		
NMS 1	56.2 – 59.8	56.7 – 59.8	57.0 – 59.6	61.4	55
NMS 2	50.6 – 53.3	49.7 – 54.6	52.7 – 53.2	49.7	55
NMS 3	64.0 – 65.2	62.1 – 68.6	60.3 – 67.5	70.9	55
NMS 4	58.2 – 60.2	58.9 – 61.9	58.8 – 61.9	62.6	55
NMS 5A	51.6 – 67.7 ^[2]	53.7 – 67.9 ^[2]	51.6 – 68.5 ^{[2][3]}	67.9	55
NMS 6A	67.6 – 70.3	67.7 – 70.8	65.9 – 70.5	71.5	55
NMS 7	49.9 – 58.9 ^[2]	45.9 – 58.9 ^[2]	57.0 – 58.5	59.0	55
NMS 8	57.8 – 60.2	58.2 – 62.4	59.6 – 61.7	64.4	55
NMS 9	54.2 – 54.8 ^[2]	51.9 – 54.1 ^[2]	50.3 – 54.3 ^[2]	53.5	55
NMS 11	50.6 – 54.9 ^[2]	49.9 – 52.7 ^[2]	53.2 – 55.0	53.2	55
NMS 13	49.7 – 55.3 ^[2]	53.8 – 55.6 ^[2]	54.5 – 56.2 ^[2]	57.3	55
NMS 14	48.2 – 54.5 ^[2]	47.9 – 54.9 ^[2]	52.0 – 52.8 ^[2]	54.1	55
NMS 15	51.2 – 57.5 ^[2]	54.6 – 58.6	53.4 – 58.5	58.8	55
NMS 16	57.2 – 58.1	56.5 – 60.1	57.7 – 60.0	60.1	55
NMS 18	56.3 – 58.9	58.4 – 60.6	54.0 – 61.8	63.2	55
NMS 19	53.6 – 61.7	58.9 – 60.4	48.4 – 60.2 ^[2]	61.7	55
NMS 20	53.6 – 57.0 ^[2]	52.3 – 57.2 ^[2]	52.3 – 56.0	57.7	55
NMS 23	46.6 – 59.9 ^[2]	57.2 – 59.6	43.6 – 58.3 ^[2]	59.9	55
NMS 24	53.0 – 57.9 ^[2]	50.9 – 57.9 ^[2]	46.5 – 57.9 ^[2]	58.0	55
NMS 25A	53.2 – 58.1	53.8 – 56.8	54.9 – 57.8	59.7	55
NMS 26	47.9 – 60.5 ^[2]	50.9 – 60.9 ^[2]	60.2 – 61.0	61.2	55

- Note:
1. $L_{eq (15min)}$ was measured at night-time (2300-0700).
 2. When the Average Measured Noise Level is greater than Limit Level and baseline level, Average Construction Noise Level (CNL) will be applied, where

$$\text{Calculated CNL} = 10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$
 3. Exceedance due to traffic vehicle noise was observed on 6th August 2021.

2.3.5 During the reporting period, 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.

2.3.6 According to the onsite observation, no raining was observed and no wind speed over 5 m/s was measured during the noise monitoring.

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3. LANDSCAPE AND VISUAL

3.1 Results and Observations

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



4. WASTE MANAGEMENT

4.1 Results and Observations

- 4.1.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.
- 4.1.2 The amount of wastes generated by the site activities in the reporting period is shown in **Appendix E**.
- 4.1.3 The Contractor is advised to properly maintain on site C&D materials and wastes collection, sorting and recording system and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 4.1.4 The Contractor is reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.
- 4.1.5 The Contractor is reminded to prevent dust nuisance generated from the construction activities. Water spraying is needed and the stockpile of construction materials should be covered to have dust suppression. The Contractor is reminded that no debris or silt should be deposited on the adjacent land and outside the site boundary.
- 4.1.6 The Contractor is reminded to provide sufficient wastewater treatment facilities for handling the muddy water being generated from construction activities. The discharge of wastewater from the site should meet the requirement stated in the Water Discharge License. The Contractor is reminded to review the efficiency and provided maintenance of the wastewater treatment facilities regularly.
- 4.1.7 Observations and recommendations during site audits are summarized in **Table 5.1**.



5. SITE INSPECTION

5.1 Site Inspection

- 5.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix G**.
- 5.1.2 In the reporting quarter, 13 site inspections were carried out. 3 of them were the joint inspections with the IEC, ER, the Contractor and the ET.
- 5.1.3 All the follow-up actions requested by Contractor’s ET and IEC during the site inspections were completed as reported by the Contractor. No outstanding issues were reported during the reporting period.
- 5.1.4 Details of observations recorded during the site inspections are presented in **Table 5.1**.

Table 5.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	No specific observation was identified in the reporting quarter.		
Noise	No specific observation was identified in the reporting quarter.		
Water Quality	3 June 2021	Reminder: 1. Contractor should review the discharge points condition and efficiency of the interceptor channels regularly, to prevent sand and silt water outflow to the stormwater drainage system. Particular attention should be paid during wet season and heavy rainfall warning hosted by the Hong Kong Observatory (Zone 2 and 3).	-
	10 June 2021	Reminder: 1. Silt, muds, sands or soil within the u-channel should be de-silt regularly to maintain the function of U-channel (Zone 5 N09).	-
	17 June 2021	Observation: 1. Sedimentation tank should be labelled, checklist should be added and regular checking is needed for monitoring the groundwater outflow to the drainage system (Zone 3, near bus station).	1. The labeling and checklist of the sedimentation tank have been affixed (Zone 3).
	24 June 2021	Reminder: 1. U-channel should be desilted and cleaned after the heavy rainfall and rainstorm warning. Discharge point also need to be checked to prevent muddy water enter to the public drainage system (Zone 3 SB).	-
	2 July 2021	Observation: 1. Soil and muddy water (from excavation) were observed outside the water-barrier and cycling track. Sand bag, cement bunding or tarpaulin should be provided to prevent soil and muddy water outflow (Zone 4 SB).	1. Soil and muddy water were cleared and prevention measures have been provided (Zone 4).
	8 July 2021	Observation: 1. Muddy water was trapped inside the onsite u-channel due to soil erosion and rainfall. Additional bunding/sandbag/tarpaulin should be used to prevent direct soil runoff to the channel. Although sandbags were placed to block the water outflow, small amount of muddy water leakage to the public drainage system still be observed outside the site boundary. Muddy water should not be allowed to enter the public drainage system directly and also need to be cleaned immediately (Zone 3 SB).	1. Mitigation measures have been enhanced next to the U-channel and the U-channels have been cleared (Zone 3).
	15 July 2021	Observation: 1. Sedimentation tank should be reviewed for its treatment efficiency, regular monitoring is needed to ensure no muddy water is discharged to the drainage system (Zone 3 RW1, near bus station).	1. The Sedimentation Tank has been cleared (Zone 3).

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Parameters	Date	Observations and Recommendations	Follow-up
		Follow-up: 1. Mitigation measure next to the u-channel was enhanced, covered with extra sand bags, sheet piles and wood rods. The stacking wood board and construction materials were requested to be moved away by ET and IEC (ad-hoc site walk). Situation will be reviewed in next site walk, 22 nd July 2021 (Zone 3 S05).	-
	22 July 2021	Follow-up: 1. Mitigation measure next to the u-channel was enhanced by covering with extra sand bags, sheet piles and wood rods. The stacking wood board and construction materials were moved away. No muddy water was observed in the public drainage system (Zone 3 S05).	-
	5 August 2021	Observation: 1. Muddy water runoff from the underground of Zone 3 RW7 was observed and entered into the on-site drainage system. According to the contractor, the muddy water was then passing through the silt trap and the final outfall under the STRCR was blocked. Hence, no muddy water was discharged to the public drainage system. The contractor was reminded that no muddy water without proper treatment and discharge to the public drainage system is allowed at any time. Enhanced mitigation measures should be applied, e.g. drainage blockage with sandbags, to prevent a large amount of muddy water entered into the silt trap suddenly and overflow accidentally (Zone 3 RW7).	1. Sand bags have been provided to enhance the mitigation measure (Zone 3).
	12 August 2021	Observation: 1. Stockpile of construction materials (wood rods) should be removed to avoid u-channel blockage (Zone 3 SB, outlet of sedimentation tank TPT 401).	1. Woods have been removed (Zone 3).
	19 August 2021	Observation: 1. The contractor should provide u-channel at the site exit for collecting wheel-washing water. The wastewater generated should avoid overflow to the main road. The wastewater collected should first be passed through the silt trap or sedimentation tank before discharging to the public drainage (Zone 4, S03).	1. The contractor requires 2 to 3 weeks to design and construct the water collection channel. Situation will be reviewed on September 2021 (Zone 4).
Chemical and Waste Management	17 June 2021	Observation: 1. The drip tray is worn out, filled with silt and water. The drip tray should be cleaned and repaired to maintain its function (Zone 1).	1. The drip tray has been cleaned and repaired (Zone 1).
	24 June 2021	Observation: 1. Drip tray should be provided for the chemical container to prevent leakage to the soil (Zone 3 NB).	1. Chemical drum has been removed (Zone 3).
	2 July 2021	Reminder: 1. Footsteps with sand and soil were observed near the site entrance. The cycling track should be cleaned regularly. Shoes washing is also needed before leaving the site (Zone 4 SB).	-
	8 July 2021	Observation: 1. Chemical should be placed on the drip tray to prevent soil contamination (Zone 3 NB).	1. Chemical drum has been removed (Zone 3).
	15 July 2021	Observation: 1. The drip tray was worn out with a hole. The drip tray should be repaired or placed (Zone 3 SB).	1. The generator has been removed (Zone 3).
	22 July 2021	Observation: 1. The drip tray was filled with rainwater. It should be cleaned to have the capacity to accommodate potential chemical spillage (Zone 3 SB).	1. The water in the drip tray has been cleared (Zone 3).
	29 July 2021	Observation: 1. Chemicals should be placed on drip tray to avoid potential soil contamination (Zone 3 RW6). 2. The drip tray was filled with rainwater. It should be cleaned to have the capacity to accommodate potential chemical spillage (Zone 3 RW6). 3. Chemicals should be placed on drip tray to avoid potential soil contamination (Zone 5 F163).	1. The chemical drums have been removed (Zone 3). 2. The water in the drip tray has been cleared (Zone 3). 3. The drip tray for the chemical drums has been provided (Zone 5).

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Parameters	Date	Observations and Recommendations	Follow-up
	5 August 2021	Reminder: 1. The drip trays were filled with water after sudden rainfall. They should be cleaned regularly to have the capacity for accommodating potential chemical spillage (Zone 3 RW6).	-
	12 August 2021	Reminder: 1. No soil or silt should be left when altering the position of water-filled barriers and site boundary. The pavement outside the site boundary should be cleaned (Zone 3 SB).	-
	26 August 2021	Observation: 1. The contractor should avoid any silt (from the Mini Piling Rig) being deposited outside the site area and on the adjacent pavement. The silt should be cleaned immediately (Zone 3, S05).	1. The silt have been cleaned immediately and screen have been enhanced (Zone 3).
Land Contamination	No deficiency was found during the reporting quarter.		
Landscape and Visual Impact	No deficiency was found during the reporting quarter.		
General Condition	No deficiency was found during the reporting quarter.		
Permit / Licenses	29 July 2021	Observation: 1. The decolorized NRMM label should be replaced with a new one and displayed at a conspicuous position (Zone 5 F163).	1. NRMM label has been affixed (Zone 5).



6. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

6.1 Environmental Exceedance

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

6.1.2 For night time construction noise monitoring, no exceedance case was recorded between 2300 and 0700 of the next day during the reporting quarter. Number of exceedance in the reporting period was summarized in **Table 6.1** and **6.2**.

Table 6.1 Summary of Exceedance of Dust Monitoring in Reporting Period

Monitoring Station		Number of exceedance in the reporting period							
		24-hour TSP				1-hour TSP			
		Jun 2021	Jul 2021	Aug 2021	Total	Jun 2021	Jul 2021	Aug 2021	Total
AMS 4A	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 5	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 7A	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0
AMS 12	AL	-	-	0	0	-	-	0	0
	LL	-	-	0	0	-	-	0	0
AMS 14	AL	0	0	-	0	0	0	-	0
	LL	0	0	-	0	0	0	-	0
AMS 17	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0
Total	AL	0	0	0	0	0	0	0	0
	LL	0	0	0	0	0	0	0	0



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

Monitoring Station ¹	Number of exceedance in the reporting period				Total
	Leq (30min) dB(A)				
	June 2021	July 2021	August 2021		
NMS 1	AL	0	0	0	0
	LL	0	0	0	0
NMS 2	AL	0	0	0	0
	LL	0	0	0	0
NMS 3	AL	0	0	0	0
	LL	0	0	0	0
NMS 4	AL	0	0	0	0
	LL	0	0	0	0
NMS 5A	AL	0	0	0	0
	LL	0	0	0	0
NMS 6A	AL	0	0	0	0
	LL	0	0	0	0
NMS 7	AL	0	0	0	0
	LL	0	0	0	0
NMS 8	AL	0	0	0	0
	LL	0	0	0	0
NMS 9	AL	0	0	0	0
	LL	0	0	0	0
NMS 10A	AL	0	0	0	0
	LL	0	0	0	0
NMS 11	AL	0	0	0	0
	LL	0	0	0	0
NMS 12	AL	0	0	0	0
	LL	0	0	0	0
NMS 13	AL	0	0	0	0
	LL	0	0	0	0
NMS 14	AL	0	0	0	0
	LL	0	0	0	0
NMS 15	AL	0	0	0	0
	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
	LL	0	0	0	0
NMS 19	AL	0	0	0	0
	LL	0	0	0	0
NMS 20	AL	0	0	0	0
	LL	0	0	0	0
NMS 23	AL	0	0	0	0
	LL	0	0	0	0
NMS 24	AL	0	0	0	0
	LL	0	0	0	0
NMS 25A	AL	0	0	0	0
	LL	0	0	0	0
NMS 26	AL	0	0	0	0
	LL	0	0	0	0
NMS 27	AL	0	0	0	0
	LL	0	0	0	0
Total	AL	0	0	0	0
	LL	0	0	0	0



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

Monitoring Station ¹	Number of exceedance in the reporting period			Total
	Leq (15min) dB(A)			
	June 2021	July 2021	August 2021	
NMS 1	0	0	0	0
NMS 2	0	0	0	0
NMS 3	0	0	0	0
NMS 4	0	0	0	0
NMS 5A	0	0	0	0
NMS 6A	0	0	0	0
NMS 7	0	0	0	0
NMS 8	0	0	0	0
NMS 9	0	0	0	0
NMS 11	0	0	0	0
NMS 13	0	0	0	0
NMS 14	0	0	0	0
NMS 15	0	0	0	0
NMS 16	0	0	0	0
NMS 18	0	0	0	0
NMS 19	0	0	0	0
NMS 20	0	0	0	0
NMS 23	0	0	0	0
NMS 24	0	0	0	0
NMS 25A	0	0	0	0
NMS 26	0	0	0	0
Total	0	0	0	0



6.2 Complaints, Notification of Summons and Prosecution

- 6.2.1 Total two complaint cases were received during the reporting period. The 1st complaint case that included four follow-up complaints received between May and June, under the 1823 case 3-6727963845. The complainant regarded the noise nuisance generated from the day time construction works at Zone 5. The 2nd complaint case was received via EPD Regional Office (North) on 26th July, 2021. The complainant concerned the poor air quality near Paris Park Villa during 19th to 26th July and suspected that the odour nuisance was generated from the diesel machineries at Zone 4 and 5.
- 6.2.2 The 1st complainant Ms. So, a resident of Wo Che Estate, Mei Wo House complained about the noise generated from the daytime construction work located outside Mei Wo House, the tunnel entrance (direction towards Fo Tan). Until 7th June 2021, total six complaints were received via 1823 (case: 3-6727963845) from the same complainant. According to the Main Contractor's daytime working schedule from 12th May to 7th June 2021 at zone 5 were soil replacement works (involved excavation, loading and unloading of materials, pour the no fine concrete and formation of haul road) and demolition of existing central divider works (involved loading and unloading of materials, minor breaking and corning operation). According to CEDD, a reply was sent to Ms. So on 27th May 2021. The Resident Site Staff (RSS) of AECOM contacted the complainant on 7th June 2021 night to explain the detail of upcoming construction work and associated noise mitigation measures to minimize the construction noise arising from the concerned construction work. The complainant was also informed that she could contact the RSS directly if she had any further enquiry in future. ET conducted regular daytime noise monitoring at NMS16-20 and NMS26 monitoring stations on 6th, 7th, 12th, 13th, 17th, 18th, 24th, 25th of May and 4th, 5th, 10th, 11th of June 2021. No exceedance case was found and the noise monitoring results were lower than the noise limit of 75 dB(A) L_{eq} (30 minutes) at the facade of dwellings and 70 dB(A) L_{eq} (30 minutes) at the facades of schools (65 dB (A) during examinations). ET reminded the Main Contractor to implement additional mitigation measures to minimize the noise nuisance generated from daytime construction works to the nearby Noise Sensitive Receivers (NSRs). The Main Contractor agreed to install an acoustic blanket, enclosed at the breaker to minimize the noise impact generated from the demolition of central divider works. The Main Contractor was reminded to maintain the noise mitigation measure during the breaking works. The Main Contractor was reminded to provide additional mitigation measures during the construction works to minimize the noise nuisance to the NSRs (similar to nighttime construction works), for example, a temporary moveable noise barrier to lower the noise impact and an acoustic blanket to block the line of sight from the engine and noise emission parts to the nearby NSRs. The Main Contractor was also reminded to display the project hotline number 5613-3367 on-site for public enquiry.
- 6.2.3 For the 2nd complaint, a resident of Paris Park Villa complained about the poor air quality around his living area between 19th and 26th July 2021. He suspected that the odour nuisance may be generated from the construction site's diesel machineries. The complaint was received by the EPD's Regional Office (North) on 26th July 2021 with reference no.: RN17367-21. According to the Main Contractor's daytime working schedule between 19th July and 26th July 2021 involved: (1) Zone 4 and 5 North boundary, the construction activities involved excavation, formation of temporary access, backfilling works for noise barrier stem wall, loading and unloading work. (2) Zone 4 and 5 South boundaries, the construction activities involved excavation, noise barrier foundation works, formation of temporary access, rebar fixing, formwork erection and tree works. There were no work activities carried out at night-time, Sunday and under the hosting of typhoon signals. According to AECOM's Resident Engineer and the Main Contractor, no particular malpractice was observed during the construction activities at Zone 4 and 5 between 19th and 26th July 2021. According to the Main



Contractor, only machineries with valid NRMM labels and regular maintenance are being used on-site. The Main Contractor sent the Ultra-Low Sulphur Diesel (ULSD) sample for laboratory testing since Feb 2019. There is no exceedance of the Sulphur content of more than 0.005% by weight in the past and the latest sample collected on 7th July (Cap. 311I Air Pollution Control (Fuel Restriction) Regulations). No particular finding on odour nuisance was found by the ET's staff when performing air monitoring in AMS 14 Ha Wo Che (close to 73A Ha Wo Che) on 21st and 22nd July 2021. ET also inspected the construction site on 29th July 2021 (between 9:00 to 10:15 a.m., weekly environmental inspection). There was no particular observation on odour nuisance or diesel smell generated from the Non-Road Mobile Machineries (NRMMs) and construction activities in the North and South boundary at Zone 4 and 5. No dark smoke was observed from the excavator, power generator, piling and pre-drilling machines under operation. ET inspected the area around Paris Park Villa and Ha Wo Che on 29th July 2021 between 10:30 a.m. to 11:30 a.m. There was no particular finding on odour nuisance in AMS14 Ha Wo Che (close to 73A Ha Wo Che). ET reminded the Main Contractor to strictly implement the air pollution control measures and minimize the air pollution impact generated from the construction work activities. The Main Contractor also is reminded that only approved or exempted NRMMs include regulated machines and non-road vehicles with proper labels are allowed to be used in specific activities on-site. The NRMMs should be well maintained. The Main Contractor was also be reminded that odour emissions from construction sites need to be controlled. Potential emission includes particulate matter, diesel and hazardous chemicals need to be considered for their odour impact. Use of ULSD should be maintained and dark smoke emission should be prevented in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005. The Main Contractor was also be reminded to display the project hotline number 5613-3367 on-site for public enquiry.

- 6.2.4 No notification of summons or prosecution was received in the reporting period.
- 6.2.5 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix F**.

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7. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

7.1 Implementation Status

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



8. CONCLUSIONS

- 8.1.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP was recorded in the reporting period at all monitoring stations.
- 8.1.2 Day time construction noise monitoring was carried out in the reporting quarter, no Action / Limit Level exceedance was recorded during the period.
- 8.1.3 For night time construction noise monitoring, no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.
- 8.1.4 Total two complaint cases were received during the reporting period. The 1st complaint case that included four follow-up complaints received between May and June, under the 1823 case 3-6727963845. The complainant regarded the noise nuisance generated from the day time construction works at Zone 5. The 2nd complaint case was received via EPD Regional Office (North) on 26th July, 2021. The complainant concerned the poor air quality near Paris Park Villa during 19th to 26th July and suspected that the odour nuisance was generated from the diesel machineries at Zone 4 and 5.
- 8.1.5 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.
- 8.1.6 Referring to the Contractor's information, no notification of summons and successful prosecution was received in the reporting period.

Comment and Recommendations

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

Air Quality Impact

- No specific observation was identified in the reporting month.

Construction Noise Impact

- No specific observation was identified in the reporting month.

Water Quality Impact

- Contractor should review the discharge points condition and efficiency of the interceptor channels regularly, to prevent sand and silt water outflow to the stormwater drainage system. Particular attention should be paid during wet season and heavy rainfall warning hosted by the Hong Kong Observatory (Zone 2 and 3).
- Silt, muds, sands or soil within the u-channel should be de-silt regularly to maintain the function of U-channel (Zone 5 N09).
- Sedimentation tank should be labelled, checklist should be added and regular checking is needed for monitoring the groundwater outflow to the drainage system (Zone 3, near bus station).



- U-channel should be desilted and cleaned after the heavy rainfall and rainstorm warning. Discharge point also need to be checked to prevent muddy water enter to the public drainage system (Zone 3 SB).
- Soil and muddy water (from excavation) were observed outside the water-barrier and cycling track. Sand bag, cement bunding or tarpaulin should be provided to prevent soil and muddy water outflow (Zone 4 SB).
- Muddy water was trapped inside the onsite u-channel due to soil erosion and rainfall. Additional bunding/sandbag/tarpaulin should be used to prevent direct soil runoff to the channel. Although sandbags were placed to block the water outflow, small amount of muddy water leakage to the public drainage system still be observed outside the site boundary. Muddy water should not be allowed to enter the public drainage system directly and also need to be cleaned immediately (Zone 3 SB).
- Sedimentation tank should be reviewed for its treatment efficiency, regular monitoring is needed to ensure no muddy water is discharged to the drainage system (Zone 3 RW1, near bus station).
- Mitigation measure next to the u-channel was enhanced, covered with extra sand bags, sheet piles and wood rods. The stacking wood board and construction materials were requested to be moved away by ET and IEC (ad-hoc site walk). Situation was reviewed on 22nd July 2021 (Zone 3 S05).
- Mitigation measure next to the u-channel was enhanced by covering with extra sand bags, sheet piles and wood rods. The stacking wood board and construction materials were moved away. No muddy water was observed in the public drainage system (Zone 3 S05).
- Muddy water runoff from the underground of Zone 3 RW7 was observed and entered into the on-site drainage system. According to the contractor, the muddy water was then passing through the silt trap and the final outfall under the STRCR was blocked. Hence, no muddy water was discharged to the public drainage system. The contractor was reminded that no muddy water without proper treatment and discharge to the public drainage system is allowed at any time. Enhanced mitigation measures should be applied, e.g. drainage blockage with sandbags, to prevent a large amount of muddy water entered into the silt trap suddenly and overflow accidentally (Zone 3 RW7).
- Stockpile of construction materials (wood rods) should be removed to avoid u-channel blockage (Zone 3 SB, outlet of sedimentation tank TPT 401).
- The contractor should provide u-channel at the site exit for collecting wheel-washing water. The wastewater generated should avoid overflow to the main road. The wastewater collected should first be passed through the silt trap or sedimentation tank before discharging to the public drainage (Zone 4, S03).

Chemical and Waste Management

- The drip tray is worn out, filled with silt and water. The drip tray should be cleaned and repaired to maintain its function (Zone 1).
- Drip tray should be provided for the chemical container to prevent leakage to the soil (Zone 3 NB).
- Footsteps with sand and soil were observed near the site entrance. The cycling track should be cleaned regularly. Shoes washing is also needed before leaving the site (Zone 4 SB).
- Chemical should be placed on the drip tray to prevent soil contamination (Zone 3 NB).
- The drip tray was worn out with a hole. The drip tray should be repaired or placed (Zone 3 SB).
- The drip tray was filled with rainwater. It should be cleaned to have the capacity to accommodate potential chemical spillage (Zone 3 SB).
- Chemicals should be placed on drip tray to avoid potential soil contamination (Zone 3 RW6, Zone 5 F163).
- The drip tray was filled with rainwater. It should be cleaned to have the capacity to accommodate potential chemical spillage (Zone 3 RW6).
- The drip trays were filled with water after sudden rainfall. They should be cleaned regularly to have the capacity for accommodating potential chemical spillage (Zone 3 RW6).
- No soil or silt should be left when altering the position of water-filled barriers and site boundary. The pavement outside the site boundary should be cleaned (Zone 3 SB).
- The contractor should avoid any silt (from the Mini Piling Rig) being deposited outside the site area and on the adjacent pavement. The silt should be cleaned immediately (Zone 3, S05).

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Land Contamination

- No specific observation was identified in the reporting month.

Landscape and Visual Impact

- No specific observation was identified in the reporting month.

General Condition

- No specific observation was identified in the reporting month.

Permit / Licenses

- The decolorized NRMM label should be replaced with a new one and displayed at a conspicuous position (Zone 5 F163).

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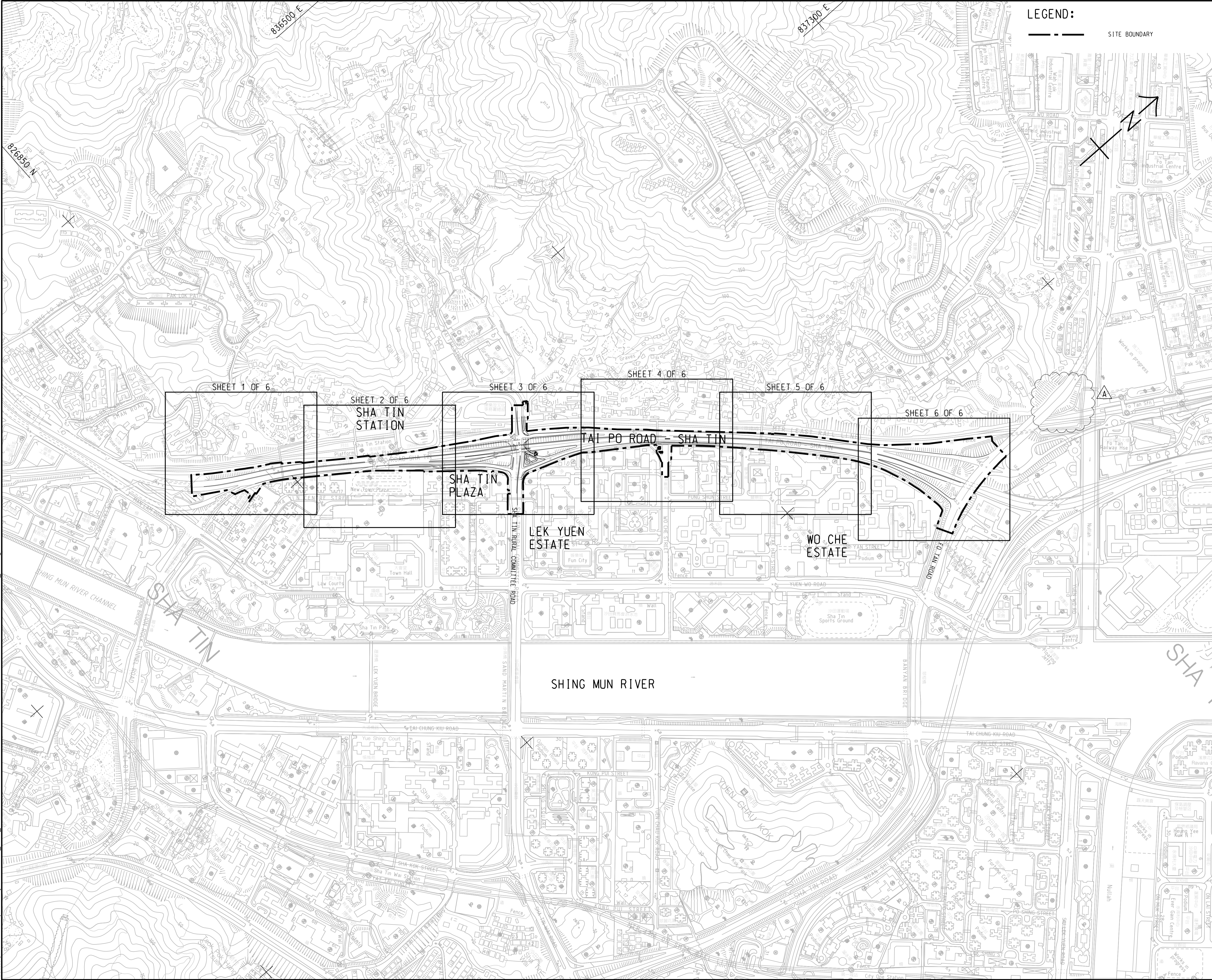
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Figure 1 Project General Layout

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 CNY



LEGEND:
 --- SITE BOUNDARY

AECOM

PROJECT
 項目

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

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 業主

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 Civil Engineering and Development Department

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SCALE
 比例

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DIMENSION UNIT
 尺寸單位

METRES

KEY PLAN
 索引圖

FIGURE 1.1a

CONTRACT NO.
 合約編號

NE/2017/05

SHEET TITLE
 圖紙名稱

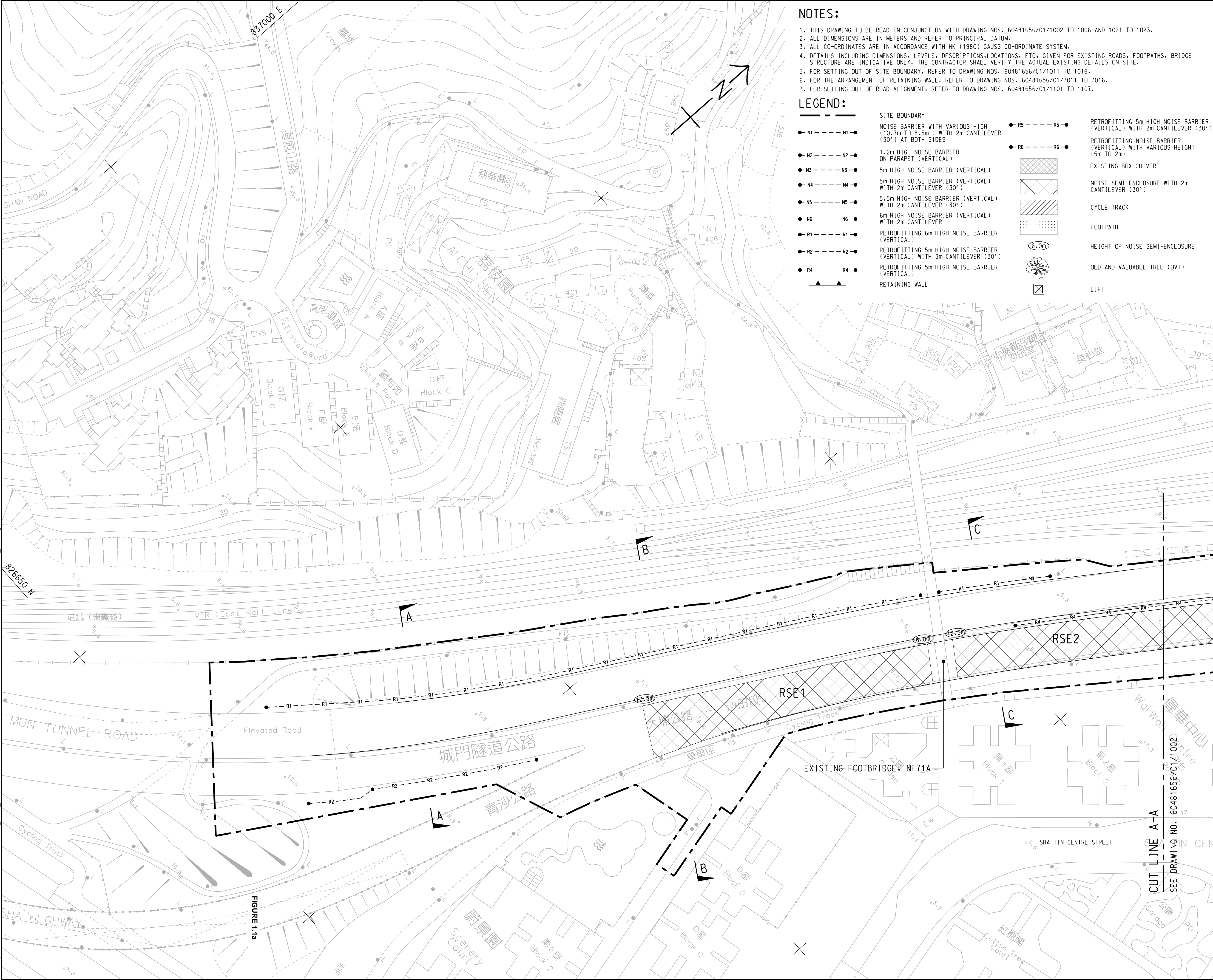
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SHEET NUMBER
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NOTES:

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

LEGEND:

<ul style="list-style-type: none"> ● N1 --- N1 ● ● N2 --- N2 ● ● N3 --- N3 ● ● N4 --- N4 ● ● N5 --- N5 ● ● N6 --- N6 ● ● R1 --- R1 ● ● R2 --- R2 ● ● R4 --- R4 ● 	<ul style="list-style-type: none"> SITE BOUNDARY NOISE BARRIER WITH VARIOUS HIGH (10.7m TO 8.5m) WITH 2m CANTILEVER (30°) AT BOTH SIDES 1.2m HIGH NOISE BARRIER ON PARAPET (VERTICAL) 5m HIGH NOISE BARRIER (VERTICAL) 5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°) 5.5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°) 6m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER RETROFITTING 6m HIGH NOISE BARRIER (VERTICAL) RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 3m CANTILEVER (30°) RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) RETAINING WALL 	<ul style="list-style-type: none"> ● R5 --- R5 ● ● R6 --- R6 ● [Hatched Box] [Diagonal Lines Box] [Dotted Box] (6.0m) [Tree Symbol] [Square with X] 	<ul style="list-style-type: none"> RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°) RETROFITTING NOISE BARRIER (VERTICAL) WITH VARIOUS HEIGHT (5m TO 2m) EXISTING BOX CULVERT NOISE SEMI-ENCLOSURE WITH 2m CANTILEVER (30°) CYCLE TRACK FOOTPATH HEIGHT OF NOISE SEMI-ENCLOSURE OLD AND VALUABLE TREE (OVT) LIFT
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PROJECT
項目

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

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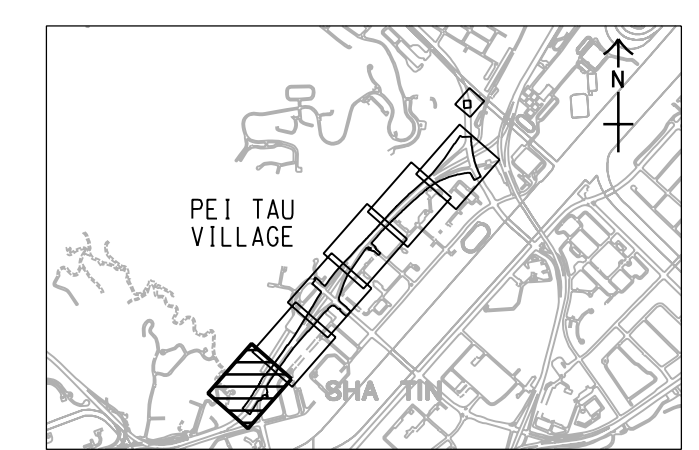
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比例
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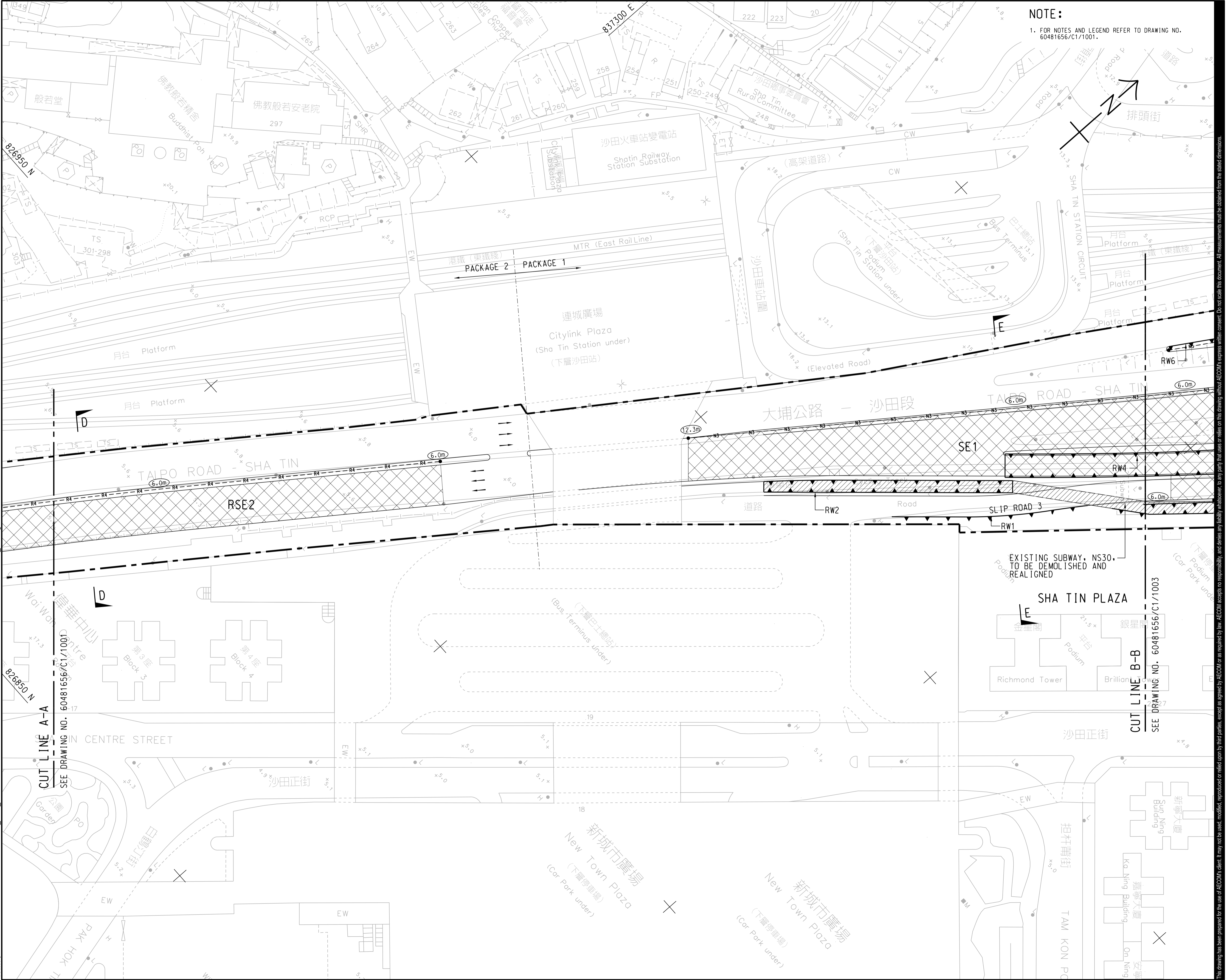
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GENERAL LAYOUT PLAN
FIGURE 1.1 b

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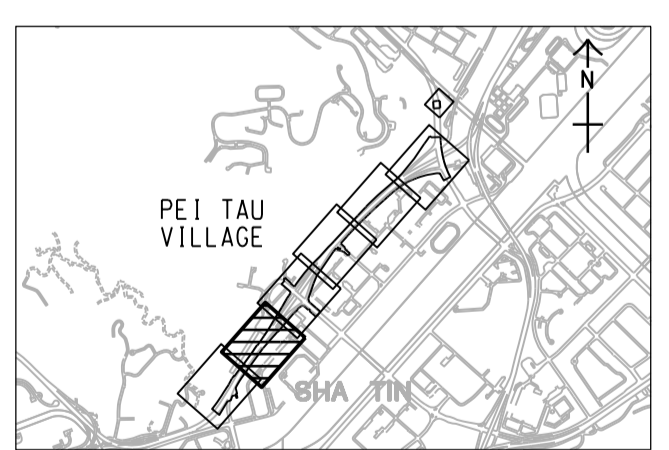
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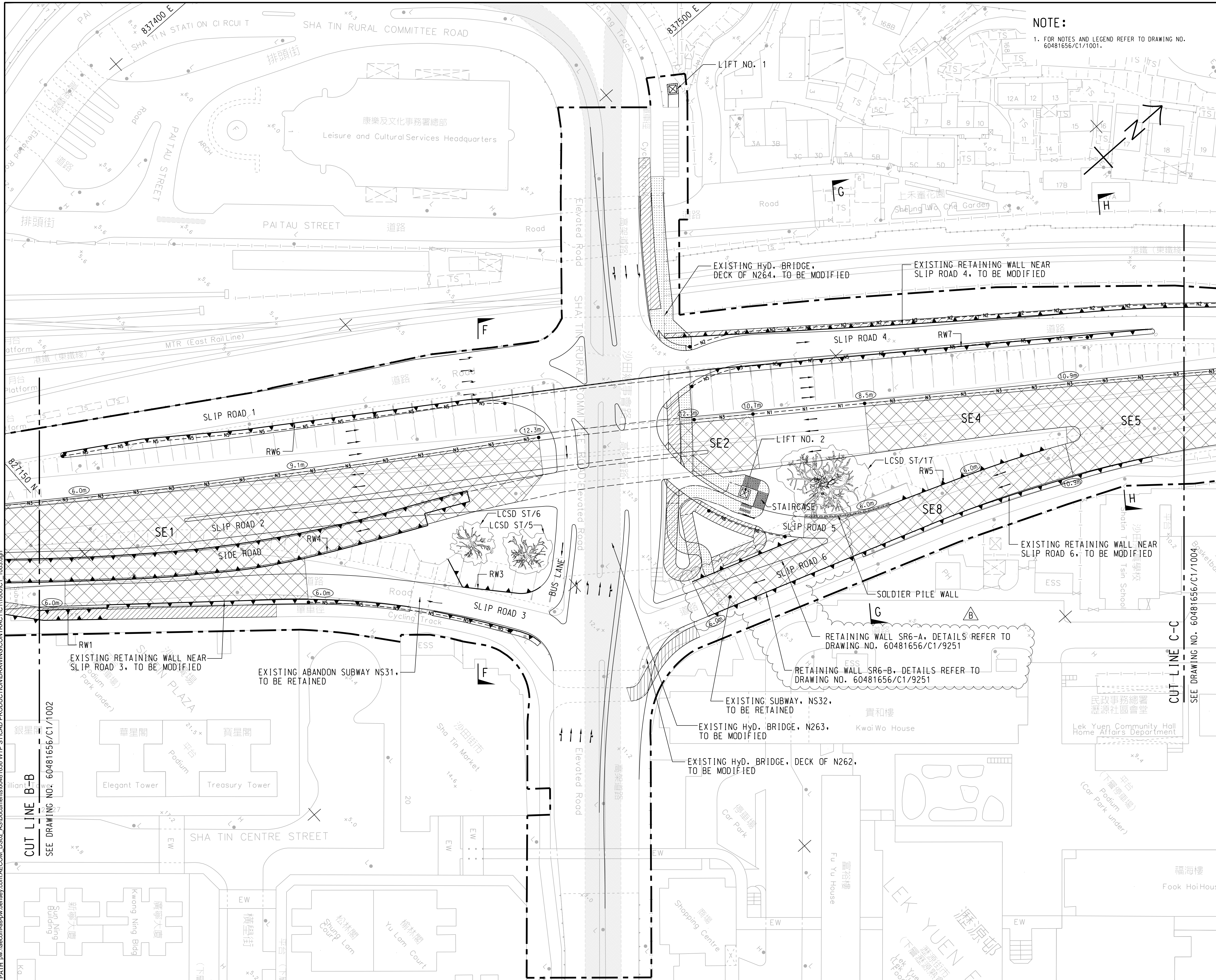
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GENERAL LAYOUT PLAN
FIGURE 1.1b

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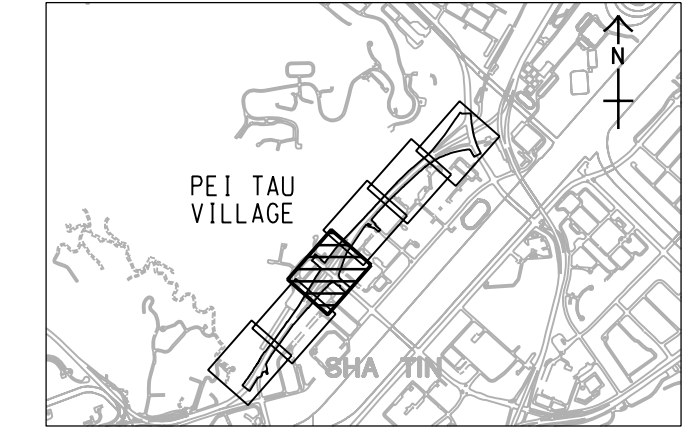
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GENERAL LAYOUT PLAN
FIGURE 1.1 b

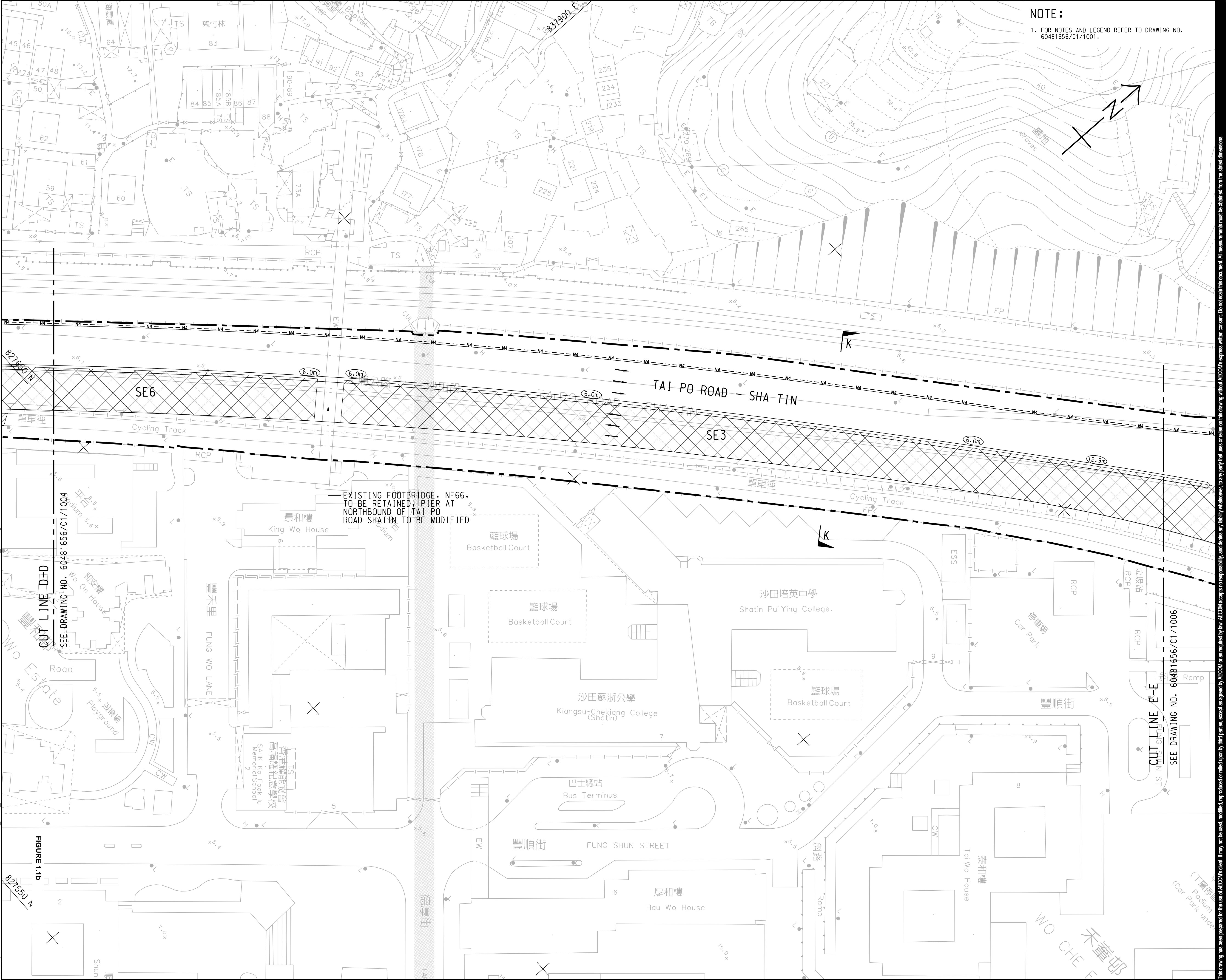
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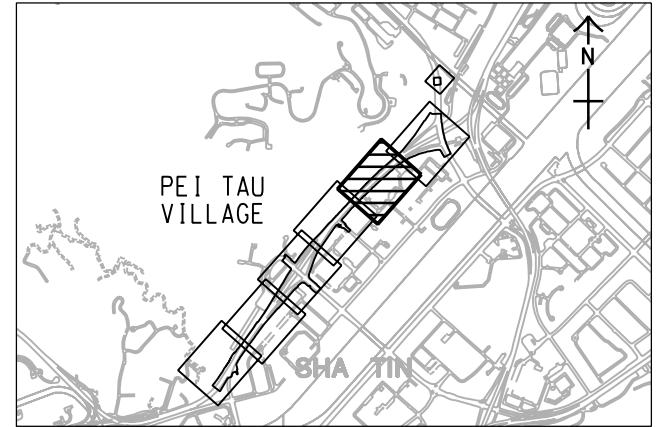
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DIMENSION UNIT
 尺寸單位
 METRES

KEY PLAN
 索引圖
 A1 1 : 40000



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 合約編號
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 FIGURE 1.1b

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Figure 2a

Air Monitoring Locations

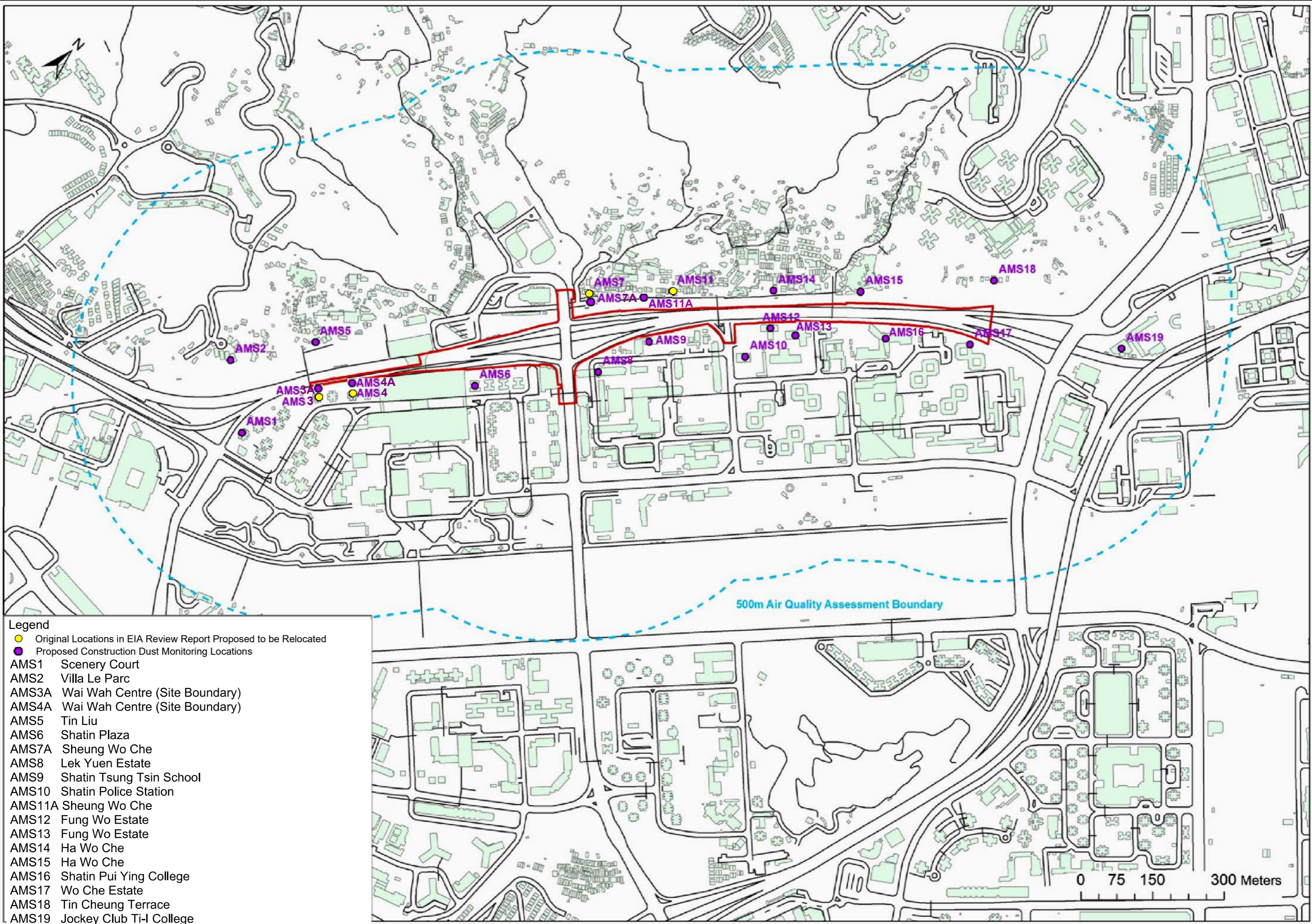


Figure 2a Air Quality Monitoring Locations

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Figure 2b Noise Monitoring Locations

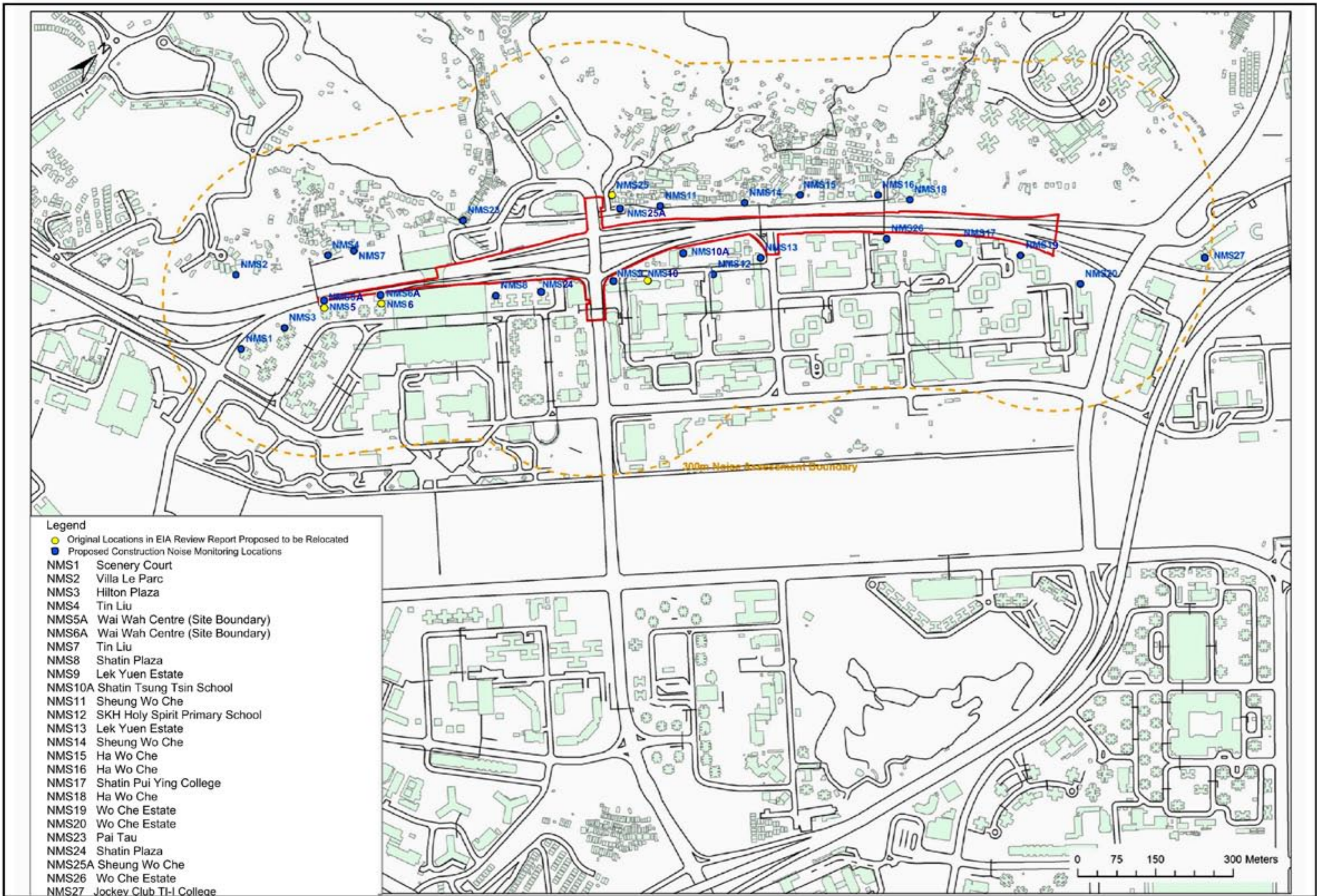


Figure 2b Noise Monitoring Locations

FUGRO TECHNICAL SERVICES LIMITED

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Appendix A

Construction Programme



Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				
								May 35	Jun 36	Jul 37	Aug 38	Sep 39
Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin)												
PRELIMINARIES & GENERAL REQUIREMENT												
GENERAL SUBMISSION												
SUB1403	ITP's for Lighting Luminaires and System	0	0	31-May-21*		30-Apr-21						
SUB1405	All Lighting Designs	0	0	31-May-21*		30-Apr-21						
SUB1410	Combined Services Drawings (CSD)	0	0	31-May-21*		30-Apr-21						
DESIGN SUBMISSION												
NOISE MITIGATION MEASURES												
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	12	29-Mar-21 A	11-Jun-21	31-Mar-21	22-Apr-21					
DES1270	PM Consent for Construction	28	28	11-Jun-21	09-Jul-21	11-May-21	08-Jun-21					
DES1290	PM review & comment	28	11	07-Aug-19 A	11-Jun-21	31-Aug-19	27-Sep-19					
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	12-Jun-21	02-Jul-21	12-May-21	01-Jun-21					
DES1310	PM Consent for Construction	28	28	02-Jul-21	30-Jul-21	01-Jun-21	29-Jun-21					
DES1330	PM review & comment	28	11	07-Aug-19 A	11-Jun-21	31-Aug-19	27-Sep-19					
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	12-Jun-21	03-Jul-21	12-May-21	02-Jun-21					
DES1350	PM Consent for Construction	28	28	03-Jul-21	31-Jul-21	02-Jun-21	30-Jun-21					
DES1370	PM review & comment	28	11	07-Aug-19 A	11-Jun-21	31-Aug-19	27-Sep-19					
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	12-Jun-21	02-Jul-21	12-May-21	01-Jun-21					
DES1390	PM Consent for Construction	28	28	02-Jul-21	30-Jul-21	01-Jun-21	29-Jun-21					
REMAINING WORKS												
DES1490	PM review & comment	28	1	25-Jan-19 A	31-May-21	04-Aug-19	01-Sep-19					
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design Certificate	35	1	13-Apr-20 A	02-Jun-21	02-Jun-20	07-Jul-20					
DES1510	PM Consent for Construction	28	28	02-Jun-21	30-Jun-21	02-May-21	30-May-21					
DES1530	PM review & comment	28	1	02-Jan-19 A	31-May-21	31-Jan-19	27-Feb-19					
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	31-May-21	02-Apr-19	03-May-19					
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	31-May-21	04-Jul-21	30-Apr-21	03-Jun-21					
DES1570	PM review & comment	28	28	05-Jul-21	01-Aug-21	04-Jun-21	01-Jul-21					
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Aug-21	03-Sep-21	03-Jul-21	03-Aug-21					
DES1590	PM Consent for Construction	28	28	04-Sep-21	01-Oct-21	04-Aug-21	31-Aug-21					
SUBLETTING & PROCUREMENT SCHEDULE												
SUBLETTING												
SPS1180	Flexible Surfacing	30	24	31-Oct-20 A	30-Jun-21	13-Jul-21	11-Aug-21					
SPS1190	Road Marking and Road Studs	30	24	30-Nov-20 A	30-Jun-21	13-Jul-21	11-Aug-21					
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	6	31-Mar-20 A	06-Jun-21	01-May-21	30-May-21					
SPS1230	Sub-base and Concrete pavement	30	30	01-Jun-21	30-Jun-21	12-May-21	11-Jun-21					
SPS1300	Traffic Sign, Sign gantry and Road Sign	30	6	30-Oct-20 A	22-Jan-22	02-Sep-21	01-Oct-21					
SPS1330	Road Lighting System (Excluding Noise Mitigation Measures)	30	6	31-Aug-20 A	02-Oct-21	02-Feb-21	03-Mar-21					
SPS1380	Road Barrier, Parapet, Kerb and Civil Work for Road Lighting and TCSS	30	6	31-Aug-20 A	30-Jun-21	12-May-21	11-Jun-21					
SPS1390	E&M Works	30	6	31-Aug-20 A	02-Oct-21	02-Feb-21	03-Mar-21					
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Louvre & Signature)	30	15	30-May-20 A	03-Aug-21	05-Jul-21	03-Aug-21					

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/5/21)
 Date: 08-Jun-21 | Revision: 3MRP DWP 2105 | Checked: Tim | Approved:
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Date	Revision	Checked	Approved
08-Jun-21	3MRP DWP 2105	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021						
								May 35	Jun 36	Jul 37	Aug 38	Sep 39		
ROADWORKS AND REMAINING WORKS														
ROADWORKS														
CENTRAL BARRIER														
Z2_1190	Drainage construction MN01 to MN06 246m	77	77	07-Jun-21	06-Sep-21	31-May-21	30-Aug-21							
WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)														
PRELIMINARY WORKS														
SUMMARY PROGRAMME														
Z3SU5000	Zone 3a (TPR area) Stage 1 RW6, RW7 & SR4	354	173	20-Nov-19 A	23-Dec-21	02-Sep-19	10-Nov-20							
Z3SU5030	Zone 3b (near SR6) Stage 1 Construct N263 & N264 foundation	393	109	09-Feb-20 A	08-Oct-21	31-Jul-19	23-Nov-20							
Z3SU5040	Zone 3b (SB near SR6) Stage 1 Construct Lift Tower 2 & staircase	256	160	31-Mar-20 A	09-Dec-21	29-Jun-20	11-May-21							
Z3SU5050	Zone 3b (near SR6) Stage 1 SE8 and SR6 foundation and N262 bridge	344	519	02-Jun-20 A	25-Feb-23	26-Jan-21	25-Mar-22							
Z3SU5080	Zone 3b (near SR6) Stage 2 N263 bridge deck construction	487	520	31-Mar-21 A	28-Feb-23	09-Jun-21	30-Jan-23							
Z3SU5070	Zone 3b (near SR6) Stage 3 Construct SR5	682	430	28-Oct-20 A	08-Nov-22	01-Dec-20	21-Mar-23							
Z3SU5100	Zone 3c (near SR3) Stage 1 construct RW1, SR3 & subway NS30	162	124	24-Jul-20 A	27-Oct-21	01-Dec-20	22-Jun-21							
Z3SU5110	Zone 3c (near SR3) Stage 1 SR2 foundation & RW4 410 to 414	106	468	07-Sep-20 A	21-Dec-22	30-Jan-21	15-Jun-21							
NOISE BARRIER AND SEMI-ENCLOSURE														
PILE FOUNDATION WORKS														
SOUTHBOUND SLIP ROAD														
Z3_1765	SEB-1 mini piles for SR6 1-B & 2-B (9nr raking, 9nr verra)	54	54	02-Aug-21	05-Oct-21	02-Aug-21	05-Oct-21							
PILE CAP AND FOOTING														
SOUTHBOUND														
Z3_5650	SE2_ELS for cap construction S2E1-52P (10m, 2 side)	6	6	30-Jun-21	08-Jul-21	31-May-21	05-Jun-21							
Z3_5660	SE2_pile cap construction S2E1-52P (1nr)	21	21	08-Jul-21	02-Aug-21	07-Jun-21	02-Jul-21							
Z3_5670	SE2_backfill & remove ELS	2	2	02-Aug-21	04-Aug-21	03-Jul-21	05-Jul-21							
ROADWORKS AND REMAINING WORKS														
ROADWORKS														
NORTHBOUND														
Z3_2740	Drainage construction MN26 to MN29 145m	45	45	17-Jul-21	08-Sep-21	10-Jul-21	01-Sep-21							
SOUTHBOUND SLIP ROAD														
Z3_3160	Drainage construction MP01 to MP02 100m	51	51	19-Aug-21	21-Oct-21	04-Aug-21	04-Oct-21							
BRIDGE AND STRUCTURE WORKS														
PRELIMINARY WORKS														
UTILITIES DIVERSION														
SOUTHBOUND														
Z3_2940	UU_CLP-slew 11kv cable for RW1 & 2 CH1500-1580 80m	9	9	18-Jun-21	28-Jun-21	24-May-21	02-Jun-21							
Z3_2950	UU_CATV-slew cable for RW1 & 2 CH1500-1590 90m	11	11	04-Jun-21	17-Jun-21	10-May-21	22-May-21							
Z3_2960	UU_HKBN-slew cable for RW1 & 2 CH1500-1580 80m	9	9	18-Jun-21	28-Jun-21	24-May-21	02-Jun-21							
Z3_3100	UU_HKBN-slew cable for N262 CH1800-1810 10m	1	1	12-Jun-21	12-Jun-21	12-Jun-21	12-Jun-21							
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	75	24	08-Jun-20 A	28-Jun-21	31-Jul-20	29-Oct-20							
Z3_5685	UU_Construct combine UU trough between RW1 to SR3 Stage 2	60	24	08-Jun-20 A	28-Jun-21	02-Jun-21	13-Aug-21							
WIDENING FOR NORTH HOLLOW ABUTMENT (N264)														
Z3_4210	C01_column construction	28	28	28-Aug-21	02-Oct-21	31-Jul-21	02-Sep-21							
Z3_4240	N264_temporary protection MTRC cable	42	42	28-Aug-21	20-Oct-21	31-Jul-21	18-Sep-21							

Remaining Level of Effort	Remaining Work	Milestone	Milestone	ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION) 3 Months Rolling Programme (31/5/21) Page 3 of 7	Date	Revision	Checked	Approved
Actual Level of Effort	Critical Remaining Work	Baseline Milestone	Baseline Milestone		08-Jun-21	3MRP DWP 2105	Tim	
Actual Work	Primary Baseline							

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					
								May 35	Jun 36	Jul 37	Aug 38	Sep 39	
MODIFICATION OF BRIDGE N263													
RECONSTRUCTION ABUTMENT WALL AT NHA													
Z3_4140	NAW-1_ELS, excavation & pile cap construction	60	50	23-Oct-20 A	29-Jul-21	30-Nov-20	10-Feb-21						
Z3_4142	Demolish part of existing North Hollow Abutment wall for construction new wall	45	41	22-Apr-21 A	29-Jul-21	30-Apr-21	24-Jun-21						
Z3_4180	NAW-2_ELS, excavation & pile cap construction	60	24	28-Sep-20 A	29-Jun-21	31-Oct-20	12-Jan-21						
Z3_4190	NAW_construct new abutment wall (North side)	60	60	29-Jun-21	08-Sep-21	31-May-21	11-Aug-21						
Z3_4195	NAW_construct new abutment wall (Remaining)	75	75	30-Jul-21	28-Oct-21	02-Jul-21	28-Sep-21						
MODIFICATION EXISTING PIER WALL OF N263													
Z3_3900	SAW-1_ELS & pile cap construction	30	9	13-Mar-21 A	09-Jun-21	31-Mar-21	10-May-21						
Z3_3940	SAW_Modify existing N263 pier wall (North side) between NAW2 & NAW3	60	1	08-Feb-21 A	31-May-21	30-Apr-21	13-Jul-21						
Z3_3945	SAW_construct new abutment wall (Remaining)	100	100	10-Jun-21	08-Oct-21	01-Jun-21	28-Sep-21						
MODIFICATION EXISTING SOUTH HOLLOW ABUTMENT WALL													
Z3_3950	SHA_piling works for pier SHA 6 nos. Socket H-pile	48	48	06-Sep-21*	04-Nov-21	06-Sep-21	04-Nov-21						
DECK CONSTRUCTION OF BRIDGE N263													
Z3_3880	N263_erect temporary working platform for deck construction (widen Area)	35	26	31-Mar-21 A	04-Oct-21	09-Jun-21	01-Sep-21						
MODIFICATION OF BRIDGE N262													
Z3_3510	C02_piling works 4nr mini pile	16	16	14-Jul-21	31-Jul-21	14-Jul-21	31-Jul-21						
Z3_3540	C03_piling works 7nr mini pile	24	24	15-Jun-21*	13-Jul-21	15-Jun-21	13-Jul-21						
NEW SLIP ROAD 2													
Z3_5350	SR2-1_ELS & pile cap construction	30	30	10-Jun-21	16-Jul-21	01-Jun-21	07-Jul-21						
Z3_5416	SR2-2A/B_ELS & pile cap construction	30	30	17-Jul-21	20-Aug-21	08-Jul-21	11-Aug-21						
LIFT TOWER 1													
Z3_3600	L1-PC1_piling works 4nr socket H-pile	32	32	06-Sep-21*	16-Oct-21	06-Sep-21	16-Oct-21						
LIFT TOWER 2 & STAIRCASE													
Z3_3690	Lift Tower 2_erect steel structure	28	28	02-Jul-21*	03-Aug-21	02-Jul-21	03-Aug-21						
Z3_3700	Lift Tower 2_external finishing	45	45	04-Aug-21	25-Sep-21	04-Aug-21	25-Sep-21						
Z3_3710	Lift Tower 2_lift installation	75	75	04-Aug-21	02-Nov-21	04-Aug-21	02-Nov-21						
Z3_3800	Lift Tower 2_Pier 3 column construction	21	20	24-Apr-21 A	27-Aug-21	06-Jul-21	29-Jul-21						
Z3_3802	Lift Tower 2_Pier 2 column construction	21	21	27-Aug-21	22-Sep-21	30-Jul-21	23-Aug-21						
Z3_3804	Lift Tower 2_Pier 1 column construction	21	21	27-Aug-21	22-Sep-21	30-Jul-21	23-Aug-21						
NEW SLIP ROAD 5													
Z3_5490	SR5-3_piling works 21nr mini pile	84	84	21-Jun-21*	28-Sep-21	21-Jun-21	28-Sep-21						
RETAINING WALL & SUBWAY													
RETAINING WALL NO.1													
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	23	02-Dec-20 A	28-Jun-21	01-Feb-21	29-Mar-21						
Z3_4555	RW1_Diversion existing CLP cable	14	14	31-May-21*	16-Jun-21	17-May-21	02-Jun-21						
Z3_4560	RW1_ELS works for Bay 101 to Bay 104 (56m_2 side)	31	25	22-May-21 A	28-Jul-21	03-Jun-21	10-Jul-21						
Z3_4570	RW1_base slab construction for Bay 101 to Bay 104	32	28	25-May-21 A	11-Aug-21	23-Jun-21	30-Jul-21						
Z3_4580	RW1_retaining wall construction for Bay 101 to Bay 104	40	40	23-Jul-21	07-Sep-21	13-Jul-21	27-Aug-21						
Z3_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	45	31-May-21	23-Jul-21	30-Apr-21	24-Jun-21						
Z3_4610	RW1_ELS works for Bay 105 to Bay 107 (29m_2 side)	16	16	28-Jul-21	16-Aug-21	12-Jul-21	29-Jul-21						
Z3_4620	RW1_base slab construction for Bay 105 to Bay 107	24	24	16-Aug-21	13-Sep-21	31-Jul-21	27-Aug-21						
RETAINING WALL NO.6													

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/5/21)
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Date	Revision	Checked	Approved
08-Jun-21	3MRP DWP 2105	Tim	


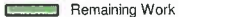






Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				
								May 35	Jun 36	Jul 37	Aug 38	Sep 39
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 606	72	36	11-Mar-21 A	13-Jul-21	31-Mar-21	30-Jun-21	RW6_retaining wall construction for Bay 601 to Bay 606				
Z3_1218_1030	RW6_remove ELS & backfill for Bay 601 to Bay 606	8	8	07-Sep-21	16-Sep-21	31-Aug-21	09-Sep-21	RW6_remove ELS & backfill for Bay 601 to Bay 606				
Z3_1218_1050	RW6_base slab construction for Bay 613 & Bay 614	16	16	31-May-21	18-Jun-21	30-Apr-21	20-May-21	RW6_base slab construction for Bay 613 & Bay 614				
Z3_1218_1060	RW6_retaining wall construction for Bay 613 to 614	24	24	14-Jul-21	10-Aug-21	10-Jul-21	07-Aug-21	RW6_retaining wall construction for Bay 613 to 614				
RETAINING WALL NO.7												
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	30	30-Jul-21	03-Sep-21	02-Jul-21	06-Aug-21	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)				
Z3_1218_2010	RW7_base slab construction for Bay 706 to Bay 711	42	42	17-Aug-21	07-Oct-21	20-Jun-21	07-Sep-21	RW7_base slab construction for Bay 706 to Bay 711				
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	31	31-May-21 A	08-Jul-21	30-Apr-21	08-Jun-21	RW7_base slab construction for Bay 701 & Bay 704				
Z3_1218_2060	RW7_retaining wall construction for Bay 701 to Bay 704	48	48	08-Jul-21	02-Sep-21	09-Jun-21	05-Aug-21	RW7_retaining wall construction for Bay 701 to Bay 704				
MODIFY EXISTING RETAINING WALL SR3												
Z3_4920	SR3_ELS works for Bay SR301 to Bay SR306 (67m_1 side)	19	18	24-Jul-20 A	22-Jun-21	05-Nov-20	26-Nov-20	SR3_ELS works for Bay SR301 to Bay SR306 (67m_1 side)				
Z3_4940	SR3_base slab construction for Bay SR301 to Bay SR306	42	42	22-Jun-21	11-Aug-21	24-May-21	14-Jul-21	SR3_base slab construction for Bay SR301 to Bay SR306				
Z3_4950	SR3_retaining wall construction for Bay SR301 to SR306	60	60	21-Jul-21	30-Sep-21	22-Jun-21	01-Sep-21	SR3_retaining wall construction for Bay SR301 to SR306				
Z3_5020	SR3_ELS works for Bay SR307 to Bay SR311 (60m_1 side)	17	7	18-Dec-20 A	29-Jun-21	02-Feb-21	24-Feb-21	SR3_ELS works for Bay SR307 to Bay SR311 (60m_1 side)				
Z3_5040	SR3_base slab construction for Bay SR307 to Bay SR311	35	14	06-Mar-21 A	27-Aug-21	24-Jun-21	05-Aug-21	SR3_base slab construction for Bay SR307 to Bay SR311				
Z3_5050	SR3_retaining wall construction for Bay SR307 to SR311	50	45	17-May-21 A	05-Oct-21	14-Jul-21	10-Sep-21	SR3_retaining wall construction for Bay SR307 to SR311				
MODIFY EXISTING RETAINING WALL SR4												
Z3_5090	SR4_retaining wall construction for Bay SR401 to SR405	50	40	31-Oct-20 A	19-Jul-21	31-Oct-20	31-Dec-20	SR4_retaining wall construction for Bay SR401 to SR405				
Z3_5100	SR4_remove ELS & backfill for Bay SR401 to SR405	10	10	19-Jul-21	30-Jul-21	19-Jun-21	02-Jul-21	SR4_remove ELS & backfill for Bay SR401 to SR405				
Z3_5130	SR4_retaining wall construction for Bay SR406 to SR409	40	35	01-Feb-21 A	28-Aug-21	02-Jun-21	21-Jul-21	SR4_retaining wall construction for Bay SR406 to SR409				
Z3_5140	SR4_remove ELS & backfill for Bay SR406 to SR409	10	10	28-Aug-21	09-Sep-21	31-Jul-21	12-Aug-21	SR4_remove ELS & backfill for Bay SR406 to SR409				
MODIFY EXISTING SUBWAY NS30												
Z3_4542	Demolish existing subway & construct NS30	160	120	02-Dec-20 A	22-Oct-21	01-Feb-21	19-Aug-21	Demolish existing subway & construct NS30				
WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)												
PRELIMINARY WORKS												
SUMMARY PROGRAMME												
Z4SU1005	Zone 4 Stage 1 NB & SB foundation	434	238	06-Mar-20 A	16-Mar-22	31-Mar-20	16-Sep-21	Zone 4 Stage 1 NB & SB foundation				
Z4SU1100	Zone 4 NF66 Construction	220	120	20-Jul-20 A	22-Oct-21	31-Aug-20	31-May-21	Zone 4 NF66 Construction				
Z4SU1110	Zone 4 NF40 Construction	387	187	12-Oct-19 A	12-Jan-22	06-Jan-20	28-Apr-21	Zone 4 NF40 Construction				
UTILITIES DIVERSION												
NORTHBOUND												
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	17-Aug-21	14-Sep-21	11-Aug-21	08-Sep-21	UU_CATV-slew cable for N4 CH2190-2400 210m				
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	31-May-21	04-Jun-21	30-Apr-21	06-May-21	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m				
NOISE BARRIER AND SEMI-ENCLOSURE												
PILE FOUNDATION WORKS												
NORTHBOUND												
Z4_1520	N4_mini piles for N4-12 to N4-27 (126nr ver)	128	128	05-Jun-21*	06-Nov-21	31-May-21	01-Nov-21	N4_mini piles for N4-12 to N4-27 (126nr ver)				
SOUTHBOUND												
Z4_1540	SE6_mini piles for S6E1-58 to S6E1-69 (70nr ver)	140	22	05-Jun-20 A	26-Jun-21	28-Sep-20	19-Mar-21	SE6_mini piles for S6E1-58 to S6E1-69 (70nr ver)				
PILE CAP AND FOOTING												
SOUTHBOUND												
Z4_1122	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)	48	41	12-Mar-21 A	20-Jul-21	09-Jun-21	06-Aug-21	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)				
Z4_1126	SE6_footing/cap construction S6E1-51P to S6E1-57 (6nr)	42	40	13-May-21 A	04-Sep-21	21-Jun-21	10-Aug-21	SE6_footing/cap construction S6E1-51P to S6E1-57 (6nr)				

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/5/21)
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Date	Revision	Checked	Approved
08-Jun-21	3MRP DWP 2105	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021						
								May 35	Jun 36	Jul 37	Aug 38	Sep 39		
Z5_1320	R4_cap/footing construction R4-01 to R4-12P (8nr)	168	118	08-Oct-20 A	11-Feb-22	21-May-21	09-Dec-21							
ROADWORKS AND REMAINING WORKS														
GEOTECHNICAL WORKS														
SOUTHBOUND SLIP ROAD														
Z5_1740	Zone 5_fill replacement by no-fines concrete 7SE-A/F166 (open excavation)	29	21	12-Mar-21 A	18-May-22	07-Apr-22	14-May-22							
PORTION E (ZONE 5)														
PRELIMINARY WORKS														
SUMMARY PROGRAMME														
TPR NORTHBOUND														
PESU1000	Construction Zone 5 Portion E_Northbound structure	336	181	11-May-20 A	05-Jan-22	31-Jul-20	16-Sep-21							
NOISE BARRIER AND SEMI-ENCLOSURE														
PILE FOUNDATION WORKS														
NORTHBOUND SLIP ROAD														
Z5E_1010	R6_mini piles for R6-02P & R6-06P (25nr raking, 16nr ver)	164	0	27-Oct-20 A	06-May-21 A	12-Dec-20	08-Jul-21							
Z5E_1200	N4 & R5_mini piles for N4-54P to R5-02P (16nr raking, 16nr ver)	64	64	31-May-21*	14-Aug-21	24-May-21	07-Aug-21							
PILE CAP AND FOOTING														
NORTHBOUND SLIP ROAD														
Z5E_1020	R5_ELS for footing construction R5-02 to R5-07 (120m_1 side)	30	30	08-Jun-21	15-Jul-21	10-May-21	16-Jun-21							
Z5E_1030	R5_footing construction R5-03 to R5-07 (5nr)	63	63	15-Jul-21	28-Sep-21	18-Jun-21	30-Aug-21							
Z5E_1060	R6_cap/footing construction R6-02P & R6-06P (4nr)	42	14	01-Mar-21 A	16-Oct-21	23-Aug-21	13-Oct-21							
Z5E_1210	N4 & R5_ELS for pile cap construction N4-54P to R5-02P (15m_1 side)	5	5	18-Aug-21	20-Aug-21	09-Aug-21	13-Aug-21							
Z5E_1220	N4 & R5_cap/footing construction N4-52 to R5-02P (6nr)	63	63	21-Aug-21	05-Nov-21	14-Aug-21	29-Oct-21							
ROADWORKS AND REMAINING WORKS														
GEOTECHNICAL WORKS														
NORTHBOUND SLIP ROAD														
Z5E_1150	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F163 (open excavation)	50	24	10-Sep-20 A	03-Dec-21	09-Dec-20	09-Feb-21							
Z5E_1180	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/FR136 (open excavation)	50	50	08-Jun-21*	07-Aug-21	10-May-21	10-Jul-21							
Z5E_1170	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F133 (open excavation)	38	8	10-Feb-20 A	08-Jun-21	11-Sep-20	28-Oct-20							

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/5/21)
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Date	Revision	Checked	Approved
08-Jun-21	3MRP DWP 2105	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				
								Jun 36	Jul 37	Aug 38	Sep 39	Oct 40
Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin)												
PRELIMINARIES & GENERAL REQUIREMENT												
GENERAL SUBMISSION												
SUB1403	ITP's for Lighting Luminaires and System	0	0	30-Jun-21*		30-Apr-21						
SUB1405	All Lighting Designs	0	0	30-Jun-21*		30-Apr-21						
SUB1410	Combined Services Drawings (CSD)	0	0	30-Jun-21*		30-Apr-21						
DESIGN SUBMISSION												
NOISE MITIGATION MEASURES												
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	12	29-Mar-21 A	11-Jul-21	31-Mar-21	22-Apr-21					
DES1270	PM Consent for Construction	28	28	11-Jul-21	08-Aug-21	11-May-21	08-Jun-21					
DES1290	PM review & comment	28	11	07-Aug-19 A	11-Jul-21	31-Aug-19	27-Sep-19					
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	12-Jul-21	01-Aug-21	12-May-21	01-Jun-21					
DES1310	PM Consent for Construction	28	28	01-Aug-21	29-Aug-21	01-Jun-21	29-Jun-21					
DES1330	PM review & comment	28	11	07-Aug-19 A	11-Jul-21	31-Aug-19	27-Sep-19					
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	12-Jul-21	02-Aug-21	12-May-21	02-Jun-21					
DES1350	PM Consent for Construction	28	28	02-Aug-21	30-Aug-21	02-Jun-21	30-Jun-21					
DES1370	PM review & comment	28	11	07-Aug-19 A	11-Jul-21	31-Aug-19	27-Sep-19					
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	12-Jul-21	01-Aug-21	12-May-21	01-Jun-21					
DES1390	PM Consent for Construction	28	28	01-Aug-21	29-Aug-21	01-Jun-21	29-Jun-21					
REMAINING WORKS												
DES1490	PM review & comment	28	1	25-Jan-19 A	30-Jun-21	04-Aug-19	01-Sep-19					
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design Certificate	35	1	13-Apr-20 A	02-Jul-21	02-Jun-20	07-Jul-20					
DES1510	PM Consent for Construction	28	28	02-Jul-21	30-Jul-21	02-May-21	30-May-21					
DES1530	PM review & comment	28	1	02-Jan-19 A	30-Jun-21	31-Jan-19	27-Feb-19					
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	30-Jun-21	02-Apr-19	03-May-19					
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	30-Jun-21	03-Aug-21	30-Apr-21	03-Jun-21					
DES1570	PM review & comment	28	28	04-Aug-21	31-Aug-21	04-Jun-21	01-Jul-21					
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	02-Sep-21	03-Oct-21	03-Jul-21	03-Aug-21					
DES1590	PM Consent for Construction	28	28	04-Oct-21	31-Oct-21	04-Aug-21	31-Aug-21					
SUBLETING & PROCUREMENT SCHEDULE												
SUBLETING												
SPS1180	Flexible Surfacing	30	23	31-Oct-20 A	29-Jul-21	13-Jul-21	11-Aug-21					
SPS1190	Road Marking and Road Studs	30	23	30-Nov-20 A	29-Jul-21	13-Jul-21	11-Aug-21					
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	5	31-Mar-20 A	04-Jul-21	01-May-21	30-May-21					
SPS1230	Sub-base and Concrete pavement	30	30	30-Jun-21	29-Jul-21	12-May-21	11-Jun-21					
SPS1300	Traffic Sign, Sign gantry and Road Sign	30	5	30-Oct-20 A	20-Feb-22	02-Sep-21	01-Oct-21					
SPS1330	Road Lighting System (Excluding Noise Mitigation Measures)	30	0	31-Aug-20 A	16-Jun-21 A	02-Feb-21	03-Mar-21					
SPS1380	Road Barrier, Parapet, Kerb and Civil Work for Road Lighting and TCSS	30	5	31-Aug-20 A	29-Jul-21	12-May-21	11-Jun-21					
SPS1390	E&M Works	30	0	31-Aug-20 A	16-Jun-21 A	02-Feb-21	03-Mar-21					
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	12	30-May-20 A	01-Sep-21	05-Jul-21	03-Aug-21					

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

Date	Revision	Checked	Approved
08-Jul-21	3MRP DWP 2106	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				
								Jun 36	Jul 37	Aug 38	Sep 39	Oct 40
SPS1420	Lighting System for Noise Mitigation Measures	30	0	31-Aug-20 A	16-Jun-21 A	30-Apr-21	29-May-21	Lighting System for Noise Mitigation Measures				
SPS1440	Drainage for Noise Mitigation Measures	30	30	30-Jun-21	29-Jul-21	30-Apr-21	29-May-21	Drainage for Noise Mitigation Measures				
SPS1450	Other Works (Mis. Metal Work, Finishing, Brickwork, etc)	30	30	30-Jul-21	29-Aug-21	01-Jun-21	30-Jun-21	Other Works (Mis. Metal Work, Finishing, Brickwork, etc)				
WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)												
PRELIMINARIES WORKS												
SUMMARY PROGRAMME												
Z1SU1030	Zone 1 Stage 1 RSE1 CM foundation	328	68	28-Dec-19 A	17-Sep-21	31-Dec-19	05-Feb-21	Zone 1 Stage 1 RSE1 CM foundation				
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 08	268	77	28-Jul-20 A	30-Sep-21	31-Jul-20	26-Jun-21	Zone 1 Stage 1 R1 structure R1-01 to 08				
Z1SU1034	Zone 1 Stage 1 R2 structure	435	205	20-Feb-20 A	08-Mar-22	20-Mar-20	07-Sep-21	Zone 1 Stage 1 R2 structure				
Z1SU1040	Zone 1 Stage 2 RES1 SB foundation	194	194	04-Oct-21	01-Jun-22	08-Sep-21	09-May-22	Zone 1 Stage 2 RES1 SB foundation				
NOISE BARRIER AND SEMI-ENCLOSURE												
PILE FOUNDATION WORKS												
SOUTHBOUND												
Z1_1540	RSE1_mini piles for RSE1-51P to 56P (40nr ver)	120	120	04-Oct-21	01-Mar-22	08-Sep-21	04-Feb-22	RSE1_mini piles for RSE1-51P to 56P (40nr ver)				
PILE CAP AND FOOTING												
NORTHBOUND												
Z1_1000	R1_ELS for footing/cap construction R1-01 to R1-08 (110m_1 side)	30	10	19-Oct-20 A	12-Jul-21	31-Oct-20	04-Dec-20	R1_ELS for footing/cap construction R1-01 to R1-08 (110m_1 side)				
Z1_1002	R1_footing construction R1-01, R1-03 to R1-08 (7nr)	147	59	27-Nov-20 A	18-Sep-21	21-Dec-20	24-Jun-21	R1_footing construction R1-01, R1-03 to R1-08 (7nr)				
Z1_1004	R1_pile cap construction R1-02P (1nr)	21	8	27-Jan-21 A	30-Sep-21	16-Jun-21	12-Jul-21	R1_pile cap construction R1-02P (1nr)				
CENTRAL BARRIER												
Z1_1130	RSE1_ELS for footing construction RSE1-01 to RSE1-07 (83m_2 side)	46	12	02-Sep-20 A	14-Jul-21	29-Oct-20	22-Dec-20	RSE1_ELS for footing construction RSE1-01 to RSE1-07 (83m_2 side)				
Z1_1147	RSE1_footing/cap construction RSE1-01P to RSE1-05 (5nr)	105	26	02-Nov-20 A	31-Jul-21	30-Nov-20	10-Apr-21	RSE1_footing/cap construction RSE1-01P to RSE1-05 (5nr)				
Z1_1150	RSE1_backfill & remove ELS	14	13	29-Apr-21 A	11-Sep-21	02-Jul-21	19-Jul-21	RSE1_backfill & remove ELS				
SOUTHBOUND												
Z1_1070	R2_ELS for footing/cap construction R2-01 to R2-06P (68m_2 side)	38	23	04-Sep-20 A	27-Jul-21	08-May-21	24-Jun-21	R2_ELS for footing/cap construction R2-01 to R2-06P (68m_2 side)				
Z1_1092	R2_footing/cap construction R2-01 to R2-06P(6nr)	126	76	23-Oct-20 A	27-Oct-21	23-Apr-21	23-Sep-21	R2_footing/cap construction R2-01 to R2-06P(6nr)				
Z1_1100	R2_backfill & remove ELS	12	11	15-Dec-20 A	09-Nov-21	08-Sep-21	23-Sep-21	R2_backfill & remove ELS				
STRUCTURE STEEL FRAME												
CENTRAL BARRIER												
Z1_1190	RSE1_erect steel posts PC1 to PC22 (22nr)	6	5	25-May-21 A	17-Sep-21	19-Jul-21	27-Jul-21	RSE1_erect steel posts PC1 to PC22 (22nr)				
ROADWORKS AND REMAINING WORKS												
ROADWORKS												
CENTRAL BARRIER												
Z1_1240	Drainage construction MR01 to MR04 38m	24	24	31-Jul-21	28-Aug-21	02-Jun-21	02-Jul-21	Drainage construction MR01 to MR04 38m				
GEOTECHNICAL WORKS												
NORTHBOUND												
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	30-Sep-21*	02-Dec-21	05-Aug-21	07-Oct-21	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1				

WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)

PRELIMINARIES WORKS												
SUMMARY PROGRAMME												
Z2SU1000	Construction Zone 2_Stage 1 RSE2 CM foundation	594	93	21-Nov-19 A	21-Oct-21	08-Aug-19	10-Aug-21	Construction Zone 2_Stage 1 RSE2 CM foundation				
NOISE BARRIER AND SEMI-ENCLOSURE												
PILE CAP AND FOOTING												

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

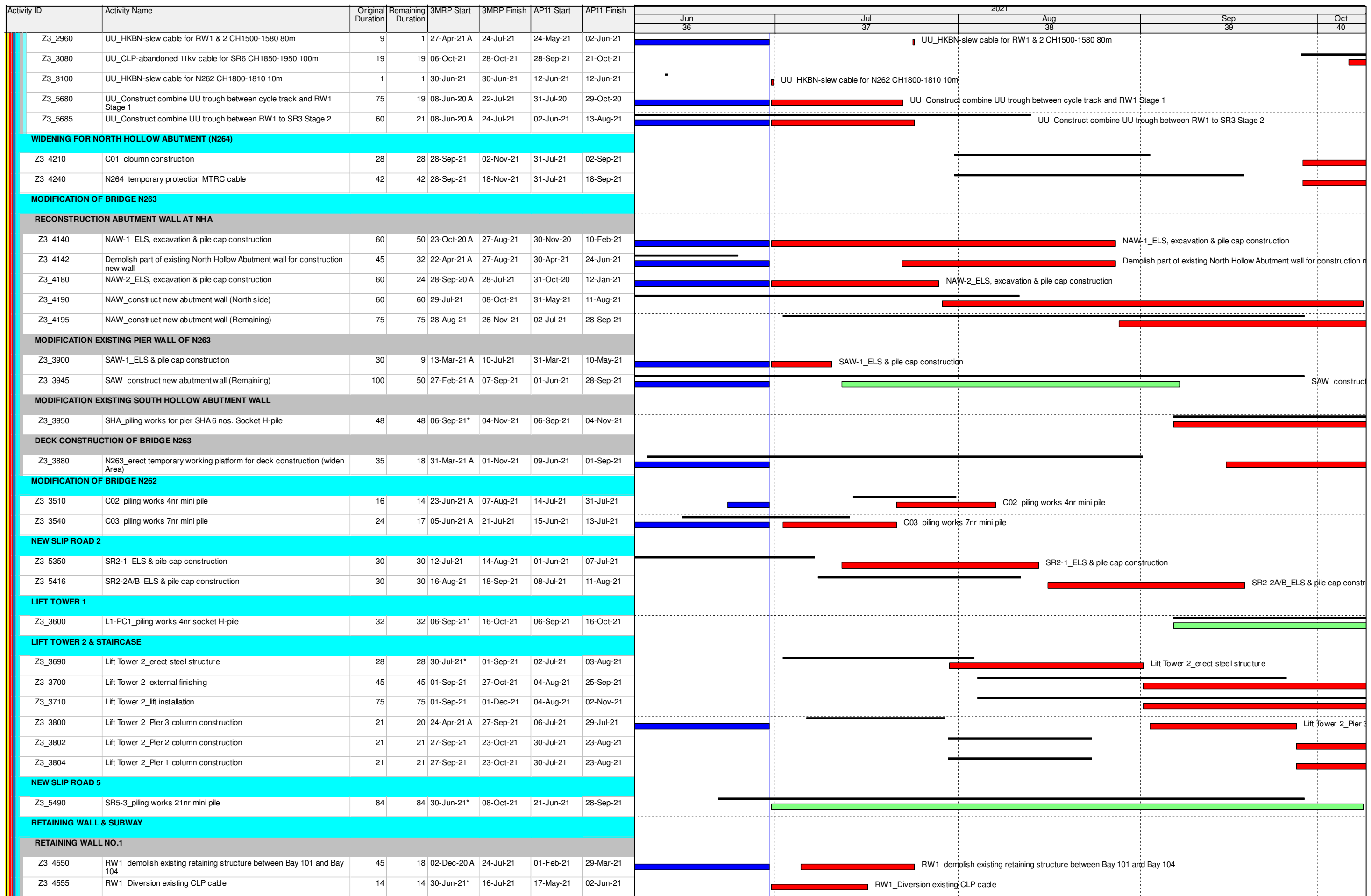
Date	Revision	Checked	Approved
08-Jul-21	3MRP DWP 2106	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				
								Jun 36	Jul 37	Aug 38	Sep 39	Oct 40
CENTRAL BARRIER												
Z2_1040	RSE2_ELS for footing/cap construction RSE2-01 to RSE2-15P (174m_2 side)	96	0	08-Aug-20 A	17-Jun-21 A	29-Oct-20	25-Feb-21	RSE2_ELS for footing/cap construction RSE2-01 to RSE2-15P (174m_2 side)				
Z2_1060	RSE2_footing/cap construction RSE2-01P to 15P (14nr)	126	15	01-Sep-20 A	17-Jul-21	27-Jan-21	06-Jul-21	RSE2_footing/cap construction RSE2-01P to 15P (14nr)				
Z2_1070	RSE2_backfill & remove ELS	29	29	28-Aug-21	04-Oct-21	05-Aug-21	07-Sep-21	RSE2				
STRUCTURE STEEL FRAME												
CENTRAL BARRIER												
Z2_1120	RSE2_erect steel posts PC23 to PC67 (45nr)	12	12	04-Oct-21	21-Oct-21	08-Sep-21	24-Sep-21					
ROADWORKS AND REMAINING WORKS												
ROADWORKS												
CENTRAL BARRIER												
Z2_1190	Drainage construction MN01 to MN06 246m	77	69	02-Jun-21 A	24-Sep-21	31-May-21	30-Aug-21	Drainage construction				
WORK BETWEEN CITYLINE PLAZA AND FOOTBRIDGE NF40 (ZONE 3)												
PRELIMINARIES WORKS												
SUMMARY PROGRAMME												
Z3SU5000	Zone 3a (TPR area) Stage 1 RW6, RW7 & SR4	354	173	20-Nov-19 A	25-Jan-22	02-Sep-19	10-Nov-20	Zone 3a (TPR area) Stage 1 RW6, RW7 & SR4				
Z3SU5030	Zone 3b (near SR6) Stage 1 Construct N263 & N264 foundation	393	59	09-Feb-20 A	07-Sep-21	31-Jul-19	23-Nov-20	Zone 3b (near SR6) Stage 1 Construct N263 & N264 foundation				
Z3SU5040	Zone 3b (SB near SR6) Stage 1 Construct Lift Tower 2 & staircase	256	160	31-Mar-20 A	11-Jan-22	29-Jun-20	11-May-21	Zone 3b (SB near SR6) Stage 1 Construct Lift Tower 2 & staircase				
Z3SU5050	Zone 3b (near SR6) Stage 1 SE8 and SR6 foundation and N262 bridge	344	500	02-Jun-20 A	04-Mar-23	26-Jan-21	25-Mar-22	Zone 3b (near SR6) Stage 1 SE8 and SR6 foundation and N262 bridge				
Z3SU5060	Zone 3b (near SR6) Stage 2 N263 bridge deck construction	487	520	31-Mar-21 A	29-Mar-23	09-Jun-21	30-Jan-23	Zone 3b (near SR6) Stage 2 N263 bridge deck construction				
Z3SU5070	Zone 3b (near SR6) Stage 3 Construct SR5	682	430	28-Oct-20 A	07-Dec-22	01-Dec-20	21-Mar-23	Zone 3b (near SR6) Stage 3 Construct SR5				
Z3SU5100	Zone 3c (near SR3) Stage 1 construct RW1, SR3 & subway NS30	162	120	24-Jul-20 A	20-Nov-21	01-Dec-20	22-Jun-21	Zone 3c (near SR3) Stage 1 construct RW1, SR3 & subway NS30				
Z3SU5110	Zone 3c (near SR3) Stage 1 SR2 foundation & RW4 410 to 414	106	468	07-Sep-20 A	26-Jan-23	30-Jan-21	15-Jun-21	Zone 3c (near SR3) Stage 1 SR2 foundation & RW4 410 to 414				
NOISE BARRIER AND SEMI-ENCLOSURE												
PILE FOUNDATION WORKS												
SOUTHBOUND SLIP ROAD												
Z3_1765	SE8-1_mini piles for SR6 1-B & 2-B (9nr raking, 9nr vernr)	54	54	09-Aug-21	12-Oct-21	02-Aug-21	05-Oct-21	SE8-1_mini piles for SR6 1-B & 2-B (9nr raking, 9nr vernr)				
PILE CAP AND FOOTING												
SOUTHBOUND												
Z3_5650	SE2_ELS for cap construction S2E1-52P (10m_2 side)	6	6	30-Jul-21	06-Aug-21	31-May-21	05-Jun-21	SE2_ELS for cap construction S2E1-52P (10m_2 side)				
Z3_5660	SE2_pile cap construction S2E1-52P (1nr)	21	21	06-Aug-21	31-Aug-21	07-Jun-21	02-Jul-21	SE2_pile cap construction S2E1-52P (1nr)				
Z3_5670	SE2_backfill & remove ELS	2	2	31-Aug-21	02-Sep-21	03-Jul-21	05-Jul-21	SE2_backfill & remove ELS				
ROADWORKS AND REMAINING WORKS												
ROADWORKS												
NORTHBOUND												
Z3_2740	Drainage construction MN26 to MN29 145m	45	45	16-Aug-21	08-Oct-21	10-Jul-21	01-Sep-21	Drainage construction MN26 to MN29 145m				
SOUTHBOUND SLIP ROAD												
Z3_3160	Drainage construction MP01 to MP02 100m	51	51	14-Sep-21	15-Nov-21	04-Aug-21	04-Oct-21	Drainage construction MP01 to MP02 100m				
BRIDGE AND STRUCTURE WORKS												
PRELIMINARIES WORKS												
UTILITIES DIVERSION												
SOUTHBOUND												
Z3_2940	UU_CLP-slew 11kv cable for RW1 & 2 CH1500-1580 80m	9	1	27-Apr-21 A	24-Jul-21	24-May-21	02-Jun-21	UU_CLP-slew 11kv cable for RW1 & 2 CH1500-1580 80m				
Z3_2950	UU_CATV-slew cable for RW1 & 2 CH1500-1590 90m	11	1	27-Apr-21 A	24-Jul-21	10-May-21	22-May-21	UU_CATV-slew cable for RW1 & 2 CH1500-1590 90m				

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

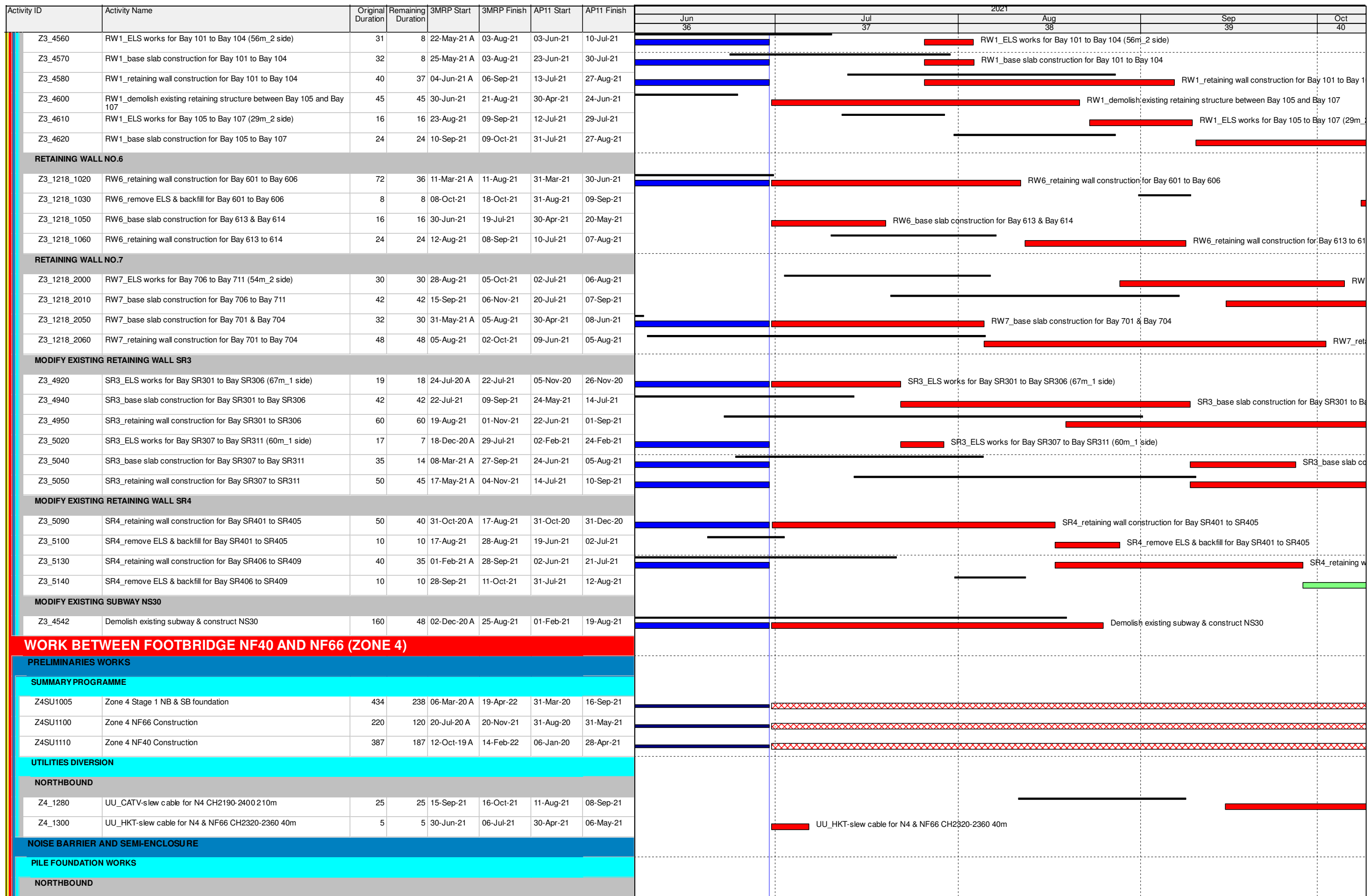
ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/6/21)
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08-Jul-21	3MRP DWP 2106	Tim	



ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/6/21)
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WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)

PRELIMINARIES WORKS

SUMMARY PROGRAMME

Z4SU1005	Zone 4 Stage 1 NB & SB foundation	434	238	06-Mar-20 A	19-Apr-22	31-Mar-20	16-Sep-21	Zone 4 Stage 1 NB & SB foundation				
Z4SU1100	Zone 4 NF66 Construction	220	120	20-Jul-20 A	20-Nov-21	31-Aug-20	31-May-21	Zone 4 NF66 Construction				
Z4SU1110	Zone 4 NF40 Construction	387	187	12-Oct-19 A	14-Feb-22	06-Jan-20	28-Apr-21	Zone 4 NF40 Construction				

UTILITIES DIVERSION

NORTHBOUND

Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	15-Sep-21	16-Oct-21	11-Aug-21	08-Sep-21	UU_CATV-slew cable for N4 CH2190-2400 210m				
Z4_1300	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m	5	5	30-Jun-21	06-Jul-21	30-Apr-21	06-May-21	UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m				

NOISE BARRIER AND SEMI-ENCLOSURE

PILE FOUNDATION WORKS

NORTHBOUND

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/6/21)
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Date	Revision	Checked	Approved
08-Jul-21	3MRP DWP 2106	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021						
								Jun 36	Jul 37	Aug 38	Sep 39	Oct 40		
Z4_1520	N4_mini piles for N4-12 to N4-27 (126nr ver)	128	128	07-Jul-21*	06-Dec-21	31-May-21	01-Nov-21							
SOUTHBOUND														
Z4_1540	SE6_mini piles for S6E1-58 to S6E1-69 (70nr ver)	140	22	05-Jun-20 A	27-Jul-21	28-Sep-20	19-Mar-21							
PILE CAP AND FOOTING														
SOUTHBOUND														
Z4_1122	SE6_ELS for footing/cap construction S6E1-51P to S6E1-57 (86m_2 side)	48	41	12-Mar-21 A	18-Aug-21	09-Jun-21	06-Aug-21							
Z4_1126	SE6_footing/cap construction S6E1-51P to S6E1-57 (6nr)	42	40	13-May-21 A	06-Oct-21	21-Jun-21	10-Aug-21							
Z4_1130	SE6_ELS for cap construction S6E1-58 to S6E1-69 (145m_2 side)	40	36	26-Apr-21 A	30-Sep-21	21-Jun-21	07-Aug-21							
Z4_1140	SE6_footing/cap construction S6E1-58 to S6E1-69 (12nr)	84	84	06-Oct-21	17-Jan-22	10-Aug-21	19-Nov-21							
BRIDGE AND STRUCTURE WORKS														
MODIFICATION WORKS FOR NF40														
NF40_1080	Construct pile cap & part of new column	60	24	15-Feb-21 A	29-Jul-21	01-Mar-21	14-May-21							
NF40_1090	Construct temporary support tower & jack up NF40	60	60	29-Jul-21	09-Oct-21	31-May-21	11-Aug-21							
NF40_1100	Demolish part of existing pier	30	30	09-Oct-21	15-Nov-21	11-Aug-21	15-Sep-21							
MODIFICATION WORKS FOR NF66														
NF66_1020	Construct the new column & columnhead	60	24	08-Feb-21 A	03-Aug-21	06-Feb-21	24-Apr-21							
NF66_1030	Erection temporary support tower	60	60	30-Jun-21	08-Sep-21	26-May-21	05-Aug-21							
NF66_1040	Remove existing column	60	60	09-Sep-21	20-Nov-21	06-Aug-21	18-Oct-21							
WORK BETWEEN FOOTBRIDGE NF66 AND FO TAN ROAD (ZONE 5)														
PRELIMINARIES WORKS														
SUMMARY PROGRAMME														
Z5SU1005	Zone 5 Stage 1 NB & SB foundation	467	288	10-Feb-20 A	20-Jun-22	31-Mar-20	28-Oct-21							
PREPARATORY WORKS														
MODIFICATION EXISTING ROAD/TEMPORARY ROAD														
Z5_1730	Zone 5-1_remove existing central barrier	21	21	02-Jul-21	02-Aug-21	02-Jul-21	02-Aug-21							
UTILITIES DIVERSION														
NORTHBOUND														
Z5_1630	UU_HGC-slew cable for N4 CH2575-2650 75m	9	7	01-Feb-21 A	09-Jul-21	08-May-21	18-May-21							
Z5_1640	UU_NWT-slew cable for N4 CH2580-2650 70m	15	15	09-Jul-21	27-Jul-21	20-May-21	05-Jun-21							
NOISE BARRIER AND SEMI-ENCLOSURE														
PILE FOUNDATION WORKS														
SOUTHBOUND														
Z5_1170	SE3-1_site investigation for S3E1-51 to S3E1-72 (21nr)	55	26	05-May-20 A	31-Jul-21	15-Jul-20	16-Sep-20							
Z5_1180	SE3-1_mini piles for S3E1-51 to S3E1-72 (132nr ver)	132	132	02-Aug-21*	10-Jan-22	02-Aug-21	10-Jan-22							
SOUTHBOUND SLIP ROAD														
Z5_1300	R4_mini piles for R4-10P (12nr raking, 11nr ver)	92	92	30-Jun-21	19-Oct-21	03-Jun-21	20-Sep-21							
PILE CAP AND FOOTING														
NORTHBOUND														
Z5_1020	N4_ELS for footing/cap construction N4-29 to N4-53 (322m_2 side)	89	80	01-Feb-21 A	01-Nov-21	11-May-21	25-Aug-21							
Z5_1030	N4_cap/footing construction N4-29 to N4-53 (25nr)	147	135	27-Mar-21 A	17-Mar-22	25-May-21	17-Nov-21							
SOUTHBOUND														
Z5_1230	SE3-2_ELS for footing construction S3E2-51 to S3E2-61P (131m_2 side)	73	66	20-Mar-21 A	15-Sep-21	31-Mar-21	02-Jul-21							
Z5_1245	SE3-2_footing/cap construction S3E2-51 to 61P (9nr)	189	180	13-May-21 A	05-Feb-22	24-May-21	07-Jan-22							

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/6/21)
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08-Jul-21	3MRP DWP 2106	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021						
								Jun 36	Jul 37	Aug 38	Sep 39	Oct 40		
SOUTHBOUND SLIP ROAD														
Z5_1260	N3_ELS for footing construction N3-01 to N3-02 (30m_2 side)	17	9	01-Oct-20 A	10-Jul-21	26-Feb-21	17-Mar-21							
Z5_1270	N3_footing construction N3-01 to N3-02 (2nr)	42	21	24-Oct-20 A	04-Aug-21	08-Apr-21	31-May-21							
Z5_1280	N3_backfill & remove ELS	5	3	23-Jan-21 A	06-Aug-21	07-Apr-21	14-Apr-21							
Z5_1310	R4_ELS for footing/cap construction R4-01 to R4-12P (158m_1 side)	44	29	08-Sep-20 A	19-Oct-21	18-Mar-21	13-May-21							
Z5_1320	R4_cap/footing construction R4-01 to R4-12P (8nr)	168	118	08-Oct-20 A	12-Mar-22	21-May-21	09-Dec-21							
ROADWORKS AND REMAINING WORKS														
GEOTECHNICAL WORKS														
SOUTHBOUND SLIP ROAD														
Z5_1740	Zone 5_fill replacement by no-fines concrete 7SE-A/F166 (open excavation)	29	21	12-Mar-21 A	17-Jun-22	07-Apr-22	14-May-22							
PORTION E (ZONE 5)														
PRELIMINARIES WORKS														
SUMMARY PROGRAMME														
TPR NORTHBOUND														
PESU1000	Construction Zone 5 Portion E_Northbound structure	336	182	11-May-20 A	08-Feb-22	31-Jul-20	16-Sep-21							
NOISE BARRIER AND SEMI-ENCLOSURE														
PILE FOUNDATION WORKS														
NORTHBOUND SLIP ROAD														
Z5E_1200	N4 & R5_mini piles for N4-54P to R5-02P (16nr raking, 16nr ver)	64	64	30-Jun-21*	13-Sep-21	24-May-21	07-Aug-21							
PILE CAP AND FOOTING														
NORTHBOUND SLIP ROAD														
Z5E_1020	R5_ELS for footing construction R5-02 to R5-07 (120m_1 side)	30	30	09-Jul-21	13-Aug-21	10-May-21	16-Jun-21							
Z5E_1030	R5_footing construction R5-03 to R5-07 (5nr)	63	63	13-Aug-21	29-Oct-21	16-Jun-21	30-Aug-21							
Z5E_1060	R6_cap/footing construction R6-02P & R6-06P (4nr)	42	13	01-Mar-21 A	13-Nov-21	23-Aug-21	13-Oct-21							
Z5E_1210	N4 & R5_ELS for pile cap construction N4-54P to R5-02P (15m_1 side)	5	5	14-Sep-21	18-Sep-21	09-Aug-21	13-Aug-21							
Z5E_1220	N4 & R5_cap/footing construction N4-52 to R5-02P (6nr)	63	63	20-Sep-21	04-Dec-21	14-Aug-21	29-Oct-21							
ROADWORKS AND REMAINING WORKS														
GEOTECHNICAL WORKS														
NORTHBOUND SLIP ROAD														
Z5E_1150	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F163 (open excavation)	50	24	10-Sep-20 A	05-Jan-22	09-Dec-20	09-Feb-21							
Z5E_1160	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/FR136 (open excavation)	50	20	03-Jun-21 A	02-Aug-21	10-May-21	10-Jul-21							
Z5E_1170	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F133 (open excavation)	38	8	10-Feb-20 A	09-Jul-21	11-Sep-20	28-Oct-20							

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (30/6/21)
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Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021					
								Jul 37	Aug 38	Sep 39	Oct 40	Nov 41	
Contract NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin)													
PROJECT KEY DATES													
PROJECT COMPLETION													
KEY1130	Contract Completion of Section 3	0	0		18-Oct-21*		18-Oct-21						
PRELIMINARIES & GENERAL REQUIREMENT													
GENERAL SUBMISSION													
SUB1403	ITP's for Lighting Luminaires and System	0	0	31-Jul-21*		30-Apr-21							
SUB1405	All Lighting Designs	0	0	31-Jul-21*		30-Apr-21							
SUB1410	Combined Services Drawings (CSD)	0	0	31-Jul-21*		30-Apr-21							
DESIGN SUBMISSION													
NOISE MITIGATION MEASURES													
DES1260	Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	23	12	29-Mar-21 A	11-Aug-21	31-Mar-21	22-Apr-21						
DES1270	PM Consent for Construction	28	28	11-Aug-21	08-Sep-21	11-May-21	08-Jun-21						
DES1290	PM review & comment	28	11	07-Aug-19 A	11-Aug-21	31-Aug-19	27-Sep-19						
DES1300	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate	20	20	12-Aug-21	01-Sep-21	12-May-21	01-Jun-21						
DES1310	PM Consent for Construction	28	28	01-Sep-21	29-Sep-21	01-Jun-21	29-Jun-21						
DES1330	PM review & comment	28	11	07-Aug-19 A	11-Aug-21	31-Aug-19	27-Sep-19						
DES1340	Re-submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate	21	21	12-Aug-21	02-Sep-21	12-May-21	02-Jun-21						
DES1350	PM Consent for Construction	28	28	02-Sep-21	30-Sep-21	02-Jun-21	30-Jun-21						
DES1370	PM review & comment	28	11	07-Aug-19 A	11-Aug-21	31-Aug-19	27-Sep-19						
DES1380	Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate	20	20	12-Aug-21	01-Sep-21	12-May-21	01-Jun-21						
DES1390	PM Consent for Construction	28	28	01-Sep-21	29-Sep-21	01-Jun-21	29-Jun-21						
REMAINING WORKS													
DES1490	PM review & comment	28	1	25-Jan-19 A	31-Jul-21	04-Aug-19	01-Sep-19						
DES1500	Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design Certificate	35	1	13-Apr-20 A	02-Aug-21	02-Jun-20	07-Jul-20						
DES1510	PM Consent for Construction	28	28	02-Aug-21	30-Aug-21	02-May-21	30-May-21						
DES1530	PM review & comment	28	1	02-Jan-19 A	31-Jul-21	31-Jan-19	27-Feb-19						
DES1540	Re-submit Design of Watermain & Irrigation System w/Design Certificate	32	1	02-Jan-19 A	31-Jul-21	02-Apr-19	03-May-19						
DES1560	Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	35	35	31-Jul-21	03-Sep-21	30-Apr-21	03-Jun-21						
DES1570	PM review & comment	28	28	04-Sep-21	01-Oct-21	04-Jun-21	01-Jul-21						
DES1580	Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate	32	32	03-Oct-21	03-Nov-21	03-Jul-21	03-Aug-21						
DES1590	PM Consent for Construction	28	28	04-Nov-21	01-Dec-21	04-Aug-21	31-Aug-21						
SUBLETTING & PROCUREMENT SCHEDULE													
SUBLETTING													
SPS1180	Flexible Surfacing	30	15	31-Oct-20 A	22-Aug-21	13-Jul-21	11-Aug-21						
SPS1190	Road Marking and Road Studs	30	23	30-Nov-20 A	22-Aug-21	13-Jul-21	11-Aug-21						
SPS1210	Drainage (PC pipe, manhole & gully) and Duct	30	5	31-Mar-20 A	04-Aug-21	01-May-21	30-May-21						
SPS1230	Sub-base and Concrete pavement	30	15	31-Oct-20 A	22-Aug-21	12-May-21	11-Jun-21						
SPS1300	Traffic Sign, Sign gantry and Road Sign	30	5	30-Oct-20 A	23-Mar-22	02-Sep-21	01-Oct-21						
SPS1380	Road Barrier, Parapet, Kerb and Civil Work for Road Lighting and TCSS	30	3	31-Aug-20 A	22-Aug-21	12-May-21	11-Jun-21						

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
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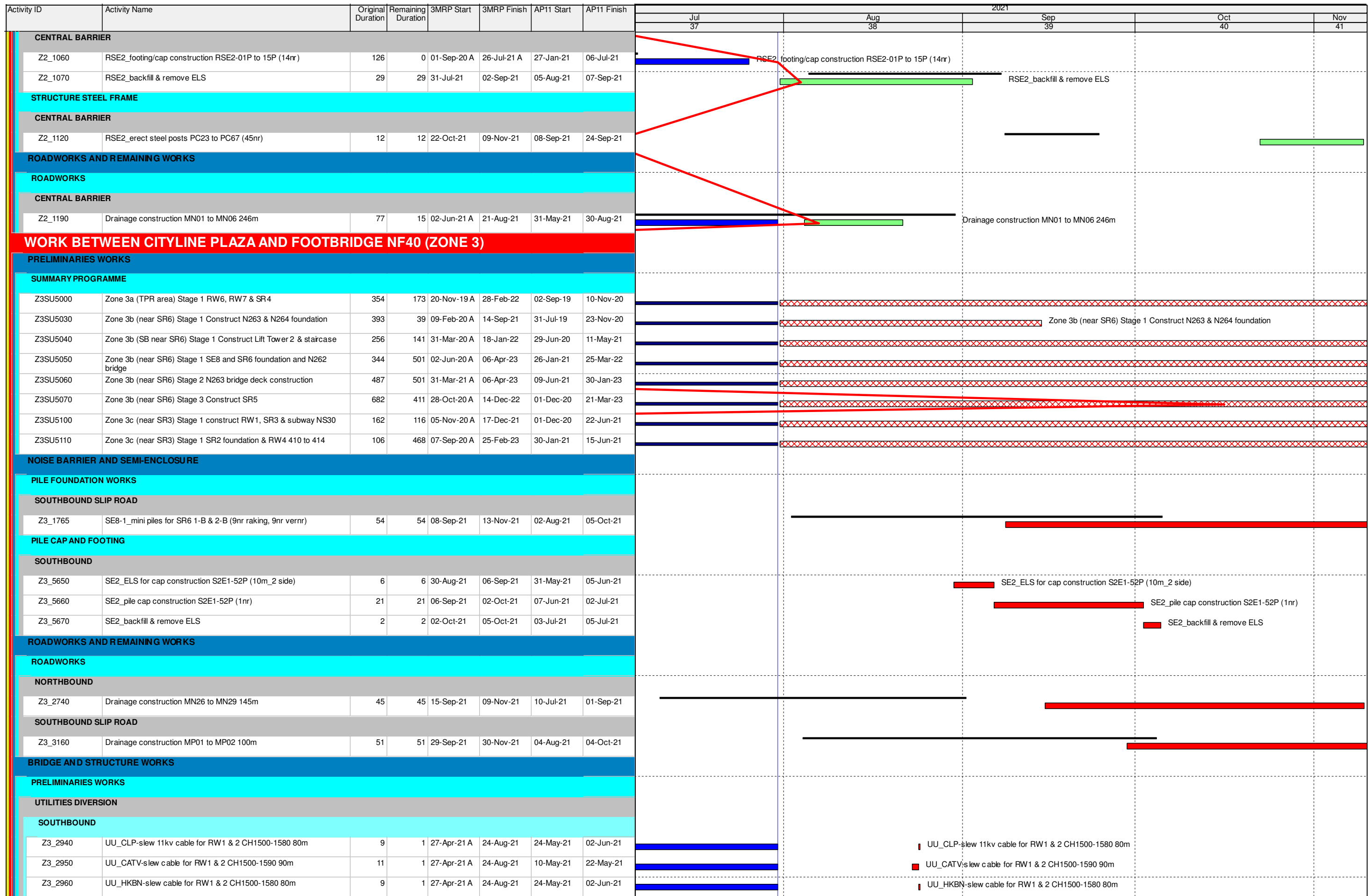
Date	Revision	Checked	Approved
09-Aug-21	3MRP DWP 2107	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021												
								Jul 37	Aug 38	Sep 39	Oct 40	Nov 41								
SPS1410	Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature)	30	3	30-May-20 A	04-Oct-21	05-Jul-21	03-Aug-21													
SPS1440	Drainage for Noise Mitigation Measures	30	30	31-Jul-21	29-Aug-21	30-Apr-21	29-May-21													
SPS1450	Other Works (Mis. Metal Work, Finishing, Brickwork, etc)	30	15	09-Jul-21 A	29-Sep-21	01-Jun-21	30-Jun-21													
WORK BETWEEN SHING MUN TUNNELS ROAD AND FOOT BRIDGE NF71A (ZONE 1)																				
PRELIMINARIES WORKS																				
SUMMARY PROGRAMME																				
Z1SU1030	Zone 1 Stage 1 RSE1 CM foundation	328	69	28-Dec-19 A	22-Oct-21	31-Dec-19	05-Feb-21													
Z1SU1032	Zone 1 Stage 1 R1 structure R1-01 to 08	268	75	28-Jul-20 A	29-Oct-21	31-Jul-20	26-Jun-21													
Z1SU1034	Zone 1 Stage 1 R2 structure	435	204	20-Feb-20 A	07-Apr-22	20-Mar-20	07-Sep-21													
Z1SU1040	Zone 1 Stage 2 RES1 SB foundation	194	194	15-Oct-21	13-Jun-22	08-Sep-21	09-May-22													
NOISE BARRIER AND SEMI-ENCLOSURE																				
PILE FOUNDATION WORKS																				
SOUTHBOUND																				
Z1_1540	RSE1_mini piles for RSE1-51P to 56P (40nr ver)	120	120	15-Oct-21	11-Mar-22	08-Sep-21	04-Feb-22													
PILE CAP AND FOOTING																				
NORTHBOUND																				
Z1_1000	R1_ELS for footing/cap construction R1-01 to R1-08 (110m_1 side)	30	10	19-Oct-20 A	11-Aug-21	31-Oct-20	04-Dec-20													
Z1_1002	R1_footing construction R1-01, R1-03 to R1-08 (7nr)	147	59	27-Nov-20 A	22-Oct-21	21-Dec-20	24-Jun-21													
Z1_1004	R1_pile cap construction R1-02P (1nr)	21	6	27-Jan-21 A	29-Oct-21	16-Jun-21	12-Jul-21													
CENTRAL BARRIER																				
Z1_1130	RSE1_ELS for footing construction RSE1-01 to RSE1-07 (83m_2 side)	46	12	02-Sep-20 A	13-Aug-21	29-Oct-20	22-Dec-20													
Z1_1147	RSE1_footing/cap construction RSE1-01P to RSE1-05 (5nr)	105	26	02-Nov-20 A	31-Aug-21	30-Nov-20	10-Apr-21													
Z1_1150	RSE1_backfill & remove ELS	14	13	29-Apr-21 A	15-Oct-21	02-Jul-21	19-Jul-21													
SOUTHBOUND																				
Z1_1070	R2_ELS for footing/cap construction R2-01 to R2-06P (68m_2 side)	38	15	04-Sep-20 A	18-Aug-21	08-May-21	24-Jun-21													
Z1_1092	R2_footing/cap construction R2-01 to R2-06P(6nr)	126	69	23-Oct-20 A	10-Nov-21	23-Apr-21	23-Sep-21													
Z1_1100	R2_backfill & remove ELS	12	11	15-Dec-20 A	23-Nov-21	08-Sep-21	23-Sep-21													
STRUCTURE STEEL FRAME																				
CENTRAL BARRIER																				
Z1_1190	RSE1_erect steel posts PC1 to PC22 (22nr)	6	5	25-May-21 A	22-Oct-21	19-Jul-21	27-Jul-21													
ROADWORKS AND REMAINING WORKS																				
ROADWORKS																				
CENTRAL BARRIER																				
Z1_1240	Drainage construction MR01 to MR04 38m	24	24	31-Aug-21	29-Sep-21	02-Jun-21	02-Jul-21													
GEOTECHNICAL WORKS																				
NORTHBOUND																				
Z1_1320	Zone 1_fill replacement by no-fines concrete 7SW-D/FF156 (open excavation) NB_R1	52	52	30-Oct-21*	31-Dec-21	05-Aug-21	07-Oct-21													
WORK BETWEEN FOOT BRIDGE NF71A AND CITYLINE PLAZA (ZONE 2)																				
PRELIMINARIES WORKS																				
SUMMARY PROGRAMME																				
Z2SU1000	Construction Zone 2_Stage 1 RSE2 CM foundation	594	84	21-Nov-19 A	09-Nov-21	08-Aug-19	10-Aug-21													
NOISE BARRIER AND SEMI-ENCLOSURE																				
PILE CAP AND FOOTING																				

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
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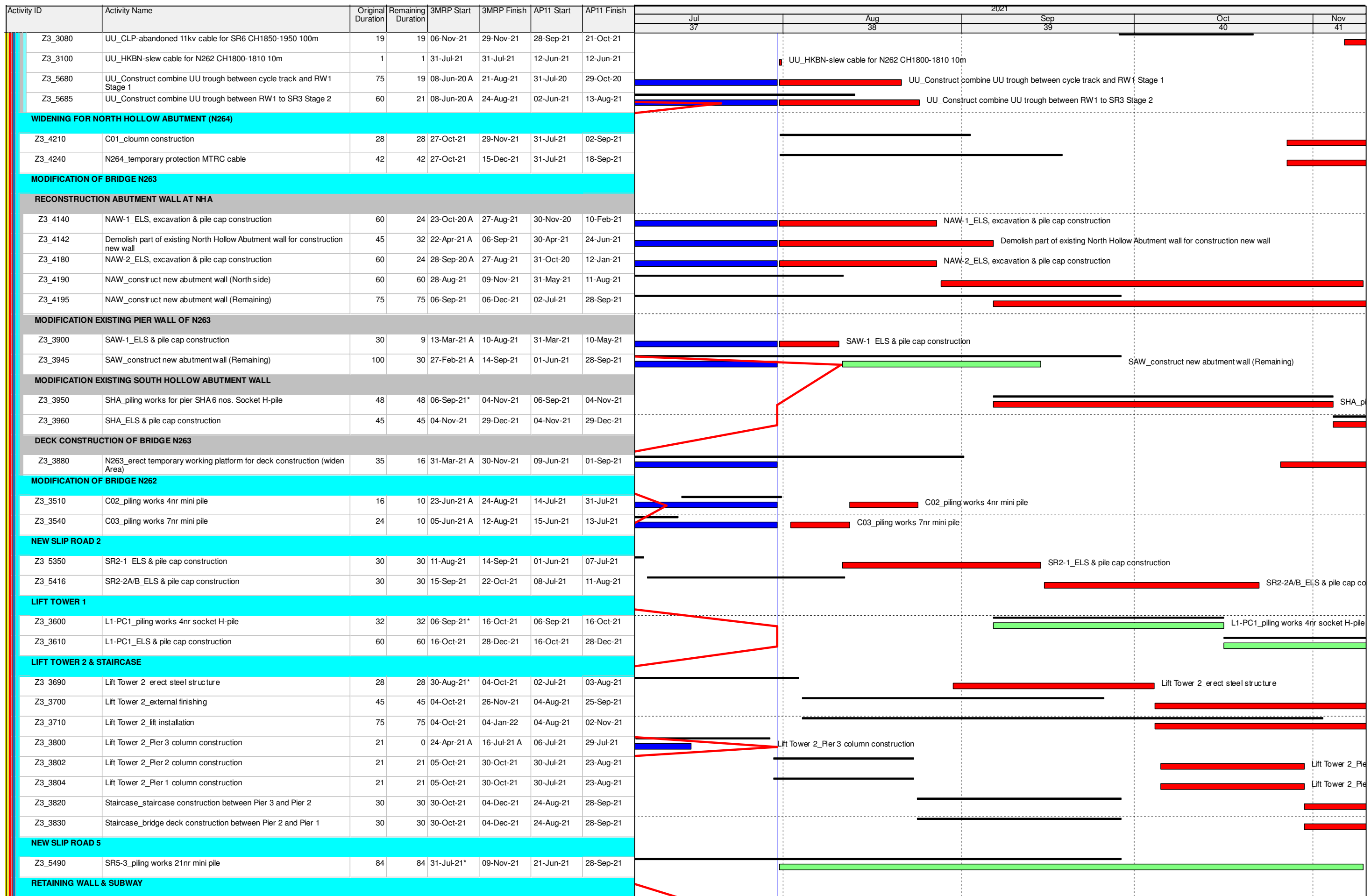
Date	Revision	Checked	Approved
09-Aug-21	3MRP DWP 2107	Tim	



-  Remaining Level of Effort
-  Remaining Work
-  Milestone
-  Baseline Milestone
-  Actual Level of Effort
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-  Baseline Milestone
-  Actual Work
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ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
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Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				
								Jul 37	Aug 38	Sep 39	Oct 40	Nov 41
RETAINING WALL NO.1												
Z3_4550	RW1_demolish existing retaining structure between Bay 101 and Bay 104	45	0	02-Dec-20 A	19-Jul-21 A	01-Feb-21	29-Mar-21	RW1_demolish existing retaining structure between Bay 101 and Bay 104				
Z3_4555	RW1_Diversion existing CLP cable	14	14	31-Jul-21*	16-Aug-21	17-May-21	02-Jun-21	RW1_Diversion existing CLP cable				
Z3_4560	RW1_ELS works for Bay 101 to Bay 104 (56m_2 side)	31	8	22-May-21 A	02-Sep-21	03-Jun-21	10-Jul-21	RW1_ELS works for Bay 101 to Bay 104 (56m_2 side)				
Z3_4570	RW1_base slab construction for Bay 101 to Bay 104	32	8	25-May-21 A	02-Sep-21	23-Jun-21	30-Jul-21	RW1_base slab construction for Bay 101 to Bay 104				
Z3_4580	RW1_retaining wall construction for Bay 101 to Bay 104	40	10	04-Jun-21 A	22-Sep-21	13-Jul-21	27-Aug-21	RW1_retaining wall construction for Bay 101 to Bay 104				
Z3_4600	RW1_demolish existing retaining structure between Bay 105 and Bay 107	45	32	02-Jul-21 A	06-Sep-21	30-Apr-21	24-Jun-21	RW1_demolish existing retaining structure between Bay 105 and Bay 107				
Z3_4610	RW1_ELS works for Bay 105 to Bay 107 (29m_2 side)	16	16	06-Sep-21	25-Sep-21	12-Jul-21	29-Jul-21	RW1_ELS works for Bay 105 to Bay 107 (29m_2 side)				
Z3_4620	RW1_base slab construction for Bay 105 to Bay 107	24	24	25-Sep-21	26-Oct-21	31-Jul-21	27-Aug-21	RW1_base slab construction for Bay 105 to Bay 107				
Z3_4630	RW1_retaining wall construction for Bay 105 to Bay 107	30	30	26-Oct-21	30-Nov-21	28-Aug-21	04-Oct-21	RW1_retaining wall construction for Bay 105 to Bay 107				
RETAINING WALL NO.6												
Z3_1218_1020	RW6_retaining wall construction for Bay 601 to Bay 606	72	36	11-Mar-21 A	10-Sep-21	31-Mar-21	30-Jun-21	RW6_retaining wall construction for Bay 601 to Bay 606				
Z3_1218_1030	RW6_remove ELS & backfill for Bay 601 to Bay 606	8	8	09-Nov-21	17-Nov-21	31-Aug-21	09-Sep-21	RW6_remove ELS & backfill for Bay 601 to Bay 606				
Z3_1218_1050	RW6_base slab construction for Bay 613 & Bay 614	16	16	31-Jul-21	18-Aug-21	30-Apr-21	20-May-21	RW6_base slab construction for Bay 613 & Bay 614				
Z3_1218_1060	RW6_retaining wall construction for Bay 613 to 614	24	24	11-Sep-21	11-Oct-21	10-Jul-21	07-Aug-21	RW6_retaining wall construction for Bay 613 to 614				
RETAINING WALL NO.7												
Z3_1218_2000	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)	30	30	29-Sep-21	05-Nov-21	02-Jul-21	06-Aug-21	RW7_ELS works for Bay 706 to Bay 711 (54m_2 side)				
Z3_1218_2010	RW7_base slab construction for Bay 706 to Bay 711	42	42	19-Oct-21	07-Dec-21	20-Jul-21	07-Sep-21	RW7_base slab construction for Bay 706 to Bay 711				
Z3_1218_2050	RW7_base slab construction for Bay 701 & Bay 704	32	30	31-May-21 A	04-Sep-21	30-Apr-21	08-Jun-21	RW7_base slab construction for Bay 701 & Bay 704				
Z3_1218_2060	RW7_retaining wall construction for Bay 701 to Bay 704	48	48	04-Sep-21	03-Nov-21	09-Jun-21	05-Aug-21	RW7_retaining wall construction for Bay 701 to Bay 704				
MODIFY EXISTING RETAINING WALL SR3												
Z3_4920	SR3_ELS works for Bay SR301 to Bay SR306 (67m_1 side)	19	18	05-Nov-20 A	21-Aug-21	05-Nov-20	26-Nov-20	SR3_ELS works for Bay SR301 to Bay SR306 (67m_1 side)				
Z3_4940	SR3_base slab construction for Bay SR301 to Bay SR306	42	42	21-Aug-21	12-Oct-21	24-May-21	14-Jul-21	SR3_base slab construction for Bay SR301 to Bay SR306				
Z3_4950	SR3_retaining wall construction for Bay SR301 to SR306	60	60	18-Sep-21	01-Dec-21	22-Jun-21	01-Sep-21	SR3_retaining wall construction for Bay SR301 to SR306				
Z3_5020	SR3_ELS works for Bay SR307 to Bay SR311 (60m_1 side)	17	7	18-Dec-20 A	28-Aug-21	02-Feb-21	24-Feb-21	SR3_ELS works for Bay SR307 to Bay SR311 (60m_1 side)				
Z3_5040	SR3_base slab construction for Bay SR307 to Bay SR311	35	14	08-Mar-21 A	29-Oct-21	24-Jun-21	05-Aug-21	SR3_base slab construction for Bay SR307 to Bay SR311				
Z3_5050	SR3_retaining wall construction for Bay SR307 to SR311	50	45	17-May-21 A	04-Dec-21	14-Jul-21	10-Sep-21	SR3_retaining wall construction for Bay SR307 to SR311				
MODIFY EXISTING RETAINING WALL SR4												
Z3_5090	SR4_retaining wall construction for Bay SR401 to SR405	50	40	31-Oct-20 A	16-Sep-21	31-Oct-20	31-Dec-20	SR4_retaining wall construction for Bay SR401 to SR405				
Z3_5100	SR4_remove ELS & backfill for Bay SR401 to SR405	10	10	16-Sep-21	29-Sep-21	19-Jun-21	02-Jul-21	SR4_remove ELS & backfill for Bay SR401 to SR405				
Z3_5130	SR4_retaining wall construction for Bay SR406 to SR409	40	32	01-Feb-21 A	27-Oct-21	02-Jun-21	21-Jul-21	SR4_retaining wall construction for Bay SR406 to SR409				
Z3_5140	SR4_remove ELS & backfill for Bay SR406 to SR409	10	10	27-Oct-21	08-Nov-21	31-Jul-21	12-Aug-21	SR4_remove ELS & backfill for Bay SR406 to SR409				
MODIFY EXISTING SUBWAY NS30												
Z3_4542	Demolish existing subway & construct NS30	160	48	02-Dec-20 A	25-Sep-21	01-Feb-21	19-Aug-21	Demolish existing subway & construct NS30				
WORK BETWEEN FOOTBRIDGE NF40 AND NF66 (ZONE 4)												
PRELIMINARIES WORKS												
SUMMARY PROGRAMME												
Z4SU1005	Zone 4 Stage 1 NB & SB foundation	434	238	06-Mar-20 A	20-May-22	31-Mar-20	16-Sep-21	Zone 4 Stage 1 NB & SB foundation				
Z4SU1100	Zone 4 NF66 Construction	220	120	20-Jul-20 A	21-Dec-21	31-Aug-20	31-May-21	Zone 4 NF66 Construction				
Z4SU1110	Zone 4 NF40 Construction	387	187	12-Oct-19 A	16-Mar-22	06-Jan-20	28-Apr-21	Zone 4 NF40 Construction				
UTILITIES DIVERSION												
NORTHBOUND												
Z4_1280	UU_CATV-slew cable for N4 CH2190-2400 210m	25	25	19-Oct-21	16-Nov-21	11-Aug-21	08-Sep-21	UU_CATV-slew cable for N4 CH2190-2400 210m				

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/7/21)
Page 5 of 7

Date	Revision	Checked	Approved
09-Aug-21	3MRP DWP 2107	Tim	



Date	Revision	Checked	Approved
09-Aug-21	3MRP DWP 2107	Tim	

Activity ID	Activity Name	Original Duration	Remaining Duration	3MRP Start	3MRP Finish	AP11 Start	AP11 Finish	2021				
								Jul 37	Aug 38	Sep 39	Oct 40	Nov 41
SOUTHBOUND												
Z5_1230	SE3-2_ELS for footing construction S3E2-51 to S3E2-61P (131m_2 side)	73	62	20-Mar-21 A	15-Oct-21	31-Mar-21	02-Jul-21					
Z5_1245	SE3-2_footing/cap construction S3E2-51 to 61P (9nr)	189	168	13-May-21 A	23-Feb-22	24-May-21	07-Jan-22					
SOUTHBOUND SLIP ROAD												
Z5_1260	N3_ELS for footing construction N3-01 to N3-02 (30m_2 side)	17	9	01-Oct-20 A	10-Aug-21	26-Feb-21	17-Mar-21					
Z5_1270	N3_footing construction N3-01 to N3-02 (2nr)	42	21	24-Oct-20 A	03-Sep-21	08-Apr-21	31-May-21					
Z5_1280	N3_backfill & remove ELS	5	3	23-Jan-21 A	06-Sep-21	07-Apr-21	14-Apr-21					
Z5_1310	R4_ELS for footing/cap construction R4-01 to R4-12P (158m_1 side)	44	29	08-Sep-20 A	18-Nov-21	18-Mar-21	13-May-21					
Z5_1320	R4_cap/footing construction R4-01 to R4-12P (8nr)	168	118	08-Oct-20 A	12-Apr-22	21-May-21	09-Dec-21					
ROADWORKS AND REMAINING WORKS												
GEOTECHNICAL WORKS												
SOUTHBOUND SLIP ROAD												
Z5_1740	Zone 5_fill replacement by no-fines concrete 7SE-A/F166 (open excavation)	29	21	12-Mar-21 A	18-Jul-22	07-Apr-22	14-May-22					
PORTION E (ZONE 5)												
PRELIMINARIES WORKS												
SUMMARY PROGRAMME												
TPR NORTHBOUND												
PESU1000	Construction Zone 5 Portion E_Northbound structure	336	174	11-May-20 A	01-Mar-22	31-Jul-20	16-Sep-21					
NOISE BARRIER AND SEMI-ENCLOSURE												
PILE FOUNDATION WORKS												
NORTHBOUND SLIP ROAD												
Z5E_1200	N4 & R5_mini piles for N4-54P to R5-02P (16nr raking, 16nr ver)	64	51	09-Jul-21 A	30-Sep-21	24-May-21	07-Aug-21					
PILE CAP AND FOOTING												
NORTHBOUND SLIP ROAD												
Z5E_1020	R5_ELS for footing construction R5-02 to R5-07 (120m_1 side)	30	30	09-Aug-21	13-Sep-21	10-May-21	16-Jun-21					
Z5E_1030	R5_footing construction R5-03 to R5-07 (5nr)	63	63	13-Sep-21	29-Nov-21	16-Jun-21	30-Aug-21					
Z5E_1060	R6_cap/footing construction R6-02P & R6-06P (4nr)	42	0	01-Mar-21 A	30-Jul-21 A	23-Aug-21	13-Oct-21					
Z5E_1210	N4 & R5_ELS for pile cap construction N4-54P to R5-02P (15m_1 side)	5	5	30-Sep-21	07-Oct-21	09-Aug-21	13-Aug-21					
Z5E_1220	N4 & R5_cap/footing construction N4-52 to R5-02P (6nr)	63	63	07-Oct-21	21-Dec-21	14-Aug-21	29-Oct-21					
ROADWORKS AND REMAINING WORKS												
GEOTECHNICAL WORKS												
NORTHBOUND SLIP ROAD												
Z5E_1150	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F163 (open excavation)	50	24	10-Sep-20 A	20-Jan-22	09-Dec-20	09-Feb-21					
Z5E_1160	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/FR136 (open excavation)	50	20	03-Jun-21 A	01-Sep-21	10-May-21	10-Jul-21					
Z5E_1170	Zone 5 Portion E_fill replacement by no-fines concrete 7SE-A/F133 (open excavation)	38	8	10-Feb-20 A	09-Aug-21	11-Sep-20	28-Oct-20					

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

ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION)
3 Months Rolling Programme (31/7/21)
Page 7 of 7

Date	Revision	Checked	Approved
09-Aug-21	3MRP DWP 2107	Tim	

FUGRO TECHNICAL SERVICES LIMITED

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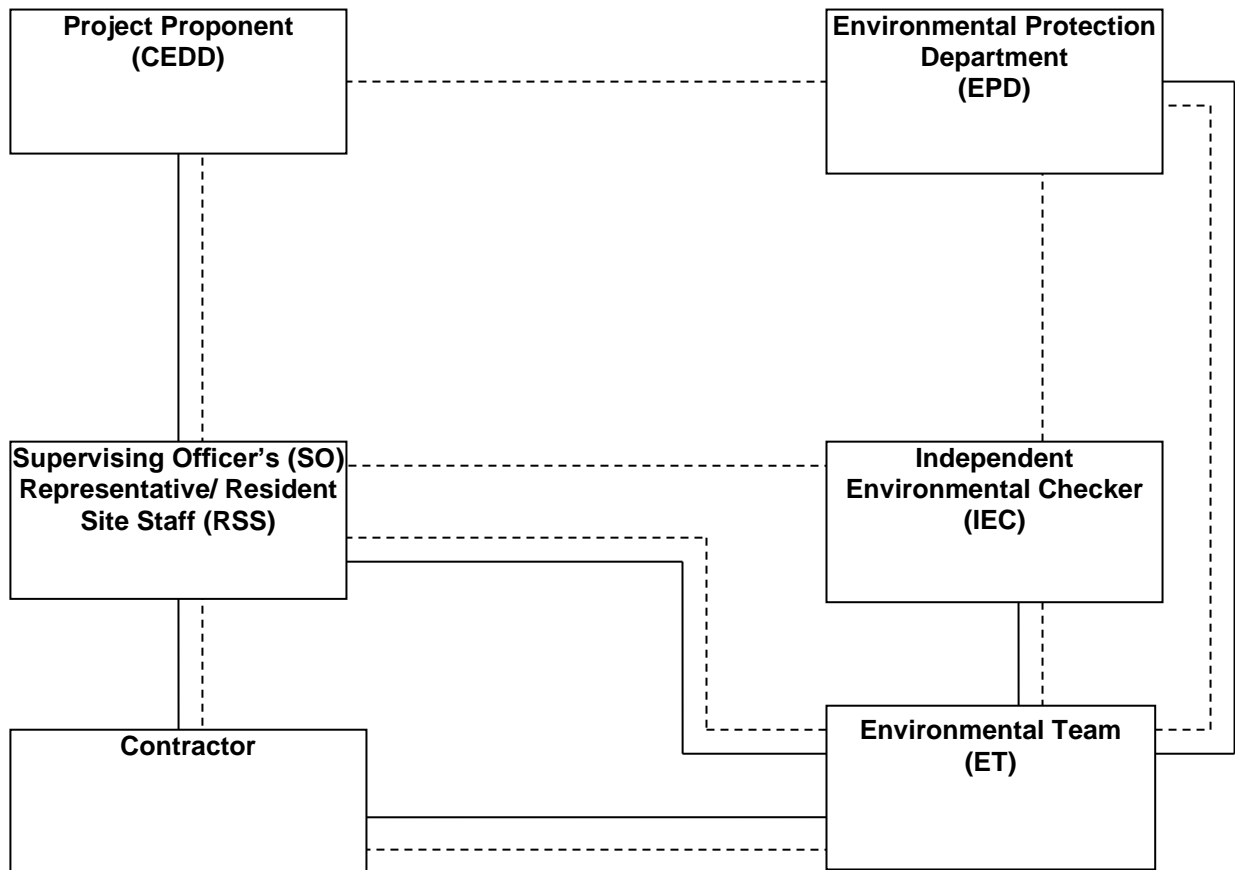
Appendix B

Project Organization Chart

FUGRO TECHNICAL SERVICES LIMITED

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

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Appendix C

Action and Limit Levels for Air Quality and Noise

FUGRO TECHNICAL SERVICES LIMITED

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

Parameter	Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
24-hr TSP ($\mu\text{g}/\text{m}^3$)	AMS1	171	260
	AMS2	166	
	AMS3A	200	
	AMS4A	200	
	AMS5	156	
	AMS6	165	
	AMS7A	171	
	AMS8	161	
	AMS9	159	
	AMS10	155	
	AMS11A	165	
	AMS12	168	
	AMS13	174	
	AMS14	174	
	AMS15	172	
	AMS16	180	
	AMS17	171	
	AMS18	175	
	AMS19	174	
1-hr TSP ($\mu\text{g}/\text{m}^3$)	AMS1	350	500
	AMS2	324	
	AMS3A	350	
	AMS4A	348	
	AMS5	340	
	AMS6	347	
	AMS7A	344	
	AMS8	336	
	AMS9	327	
	AMS10	330	
	AMS11A	335	
	AMS12	296	
	AMS13	303	
	AMS14	350	
	AMS15	350	
	AMS16	310	
	AMS17	338	
	AMS18	308	
	AMS19	305	

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

Time Period	Location	Action	Limit
0700-1900 hrs on normal weekdays	NMS1 NMS2 NMS3 NMS4 NMS5A NMS6A NMS7 NMS8 NMS9 NMS10A* NMS11 NMS12* NMS13 NMS14 NMS15 NMS16 NMS17* NMS18 NMS19 NMS20 NMS23 NMS24 NMS25A NMS26 NMS27*	When one documented complaint is received	75 dB(A)

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

Action and Limit Levels for Construction Noise, Leq (15min), dB(A)

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

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Appendix D

Graphical Presentation of Monitoring Data

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

AMS 4A - Wai Wah Centre

1-hour TSP ($\mu\text{g}/\text{m}^3$)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
02-Aug-21	11:24	72	70	84	75	348	500	Sunny
07-Aug-21	14:43	70	70	67	69			Fine
13-Aug-21	11:16	79	82	72	78			Fine
19-Aug-21	16:10	82	86	84	84			Fine
25-Aug-21	09:18	96	91	96	94			Sunny
31-Aug-21	09:30	77	89	62	76			Overcast
Average		79						
Max		96						
Min		62						

AMS5 - Tin Liu

1-hour TSP ($\mu\text{g}/\text{m}^3$)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
06-May-21	09:18	88	88	94	90	340	500	Fine
12-May-21	14:18	79	65	76	73			Fine
18-May-21	16:39	59	62	54	58			Sunny
24-May-21	11:43	64	67	64	65			Fine
29-May-21	14:46	57	55	54	55			Fine
04-Jun-21	15:21	41	48	45	45	340	500	Fine
10-Jun-21	15:32	60	65	66	64			Fine
16-Jun-21	17:06	55	55	50	53			Fine
22-Jun-21	13:55	50	50	45	48			Fine
28-Jun-21	16:05	65	68	72	68			Overcast
03-Jul-21	15:34	62	60	63	62	340	500	Fine
09-Jul-21	15:24	67	68	56	64			Sunny
15-Jul-21	09:09	56	58	53	56			Fine
21-Jul-21	12:11	71	60	87	73			Fine
27-Jul-21	11:10	64	61	64	63			Overcast
Average		62						
Max		94						
Min		41						

AMS7A - Sheung Wo Che

1-hour TSP ($\mu\text{g}/\text{m}^3$)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
06-May-21	13:30	98	99	83	93	344	500	Fine
12-May-21	07:59	82	76	76	78			Fine
18-May-21	07:50	46	42	45	44			Sunny
24-May-21	07:55	65	57	68	63			Fine
29-May-21	13:06	62	68	67	66			Fine
04-Jun-21	15:29	50	32	44	42	344	500	Fine
10-Jun-21	16:14	58	62	64	61			Fine
16-Jun-21	10:55	54	52	57	54			Fine
22-Jun-21	10:40	51	35	50	45			Fine
29-Jun-21	10:22	55	58	60	58			Fine
03-Jul-21	09:11	52	53	47	51	344	500	Fine
09-Jul-21	10:06	64	63	52	60			Sunny
15-Jul-21	13:00	50	45	51	49			Fine
21-Jul-21	16:20	66	60	70	65			Fine
27-Jul-21	09:25	58	58	50	55			Overcast
02-Aug-21	11:39	49	49	54	51	344	500	Sunny
07-Aug-21	10:27	52	54	49	52			Fine
13-Aug-21	14:32	54	58	57	56			Fine
19-Aug-21	10:23	52	60	58	57			Fine
25-Aug-21	15:27	63	66	63	64			Sunny
31-Aug-21	07:44	50	54	55	53			Overcast
Average		58						
Max		99						
Min		32						

AMS 12 - Fung Wo Estate

1-hour TSP ($\mu\text{g}/\text{m}^3$)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
02-Aug-21	13:55	60	66	60	62	296	500	Sunny
07-Aug-21	12:45	40	55	60	52			Fine
13-Aug-21	16:47	55	61	46	54			Fine
19-Aug-21	10:39	46	61	61	56			Fine
25-Aug-21	08:44	58	66	67	64			Sunny
31-Aug-21	15:56	43	44	49	45			Overcast
Average		55						
Max		67						
Min		40						

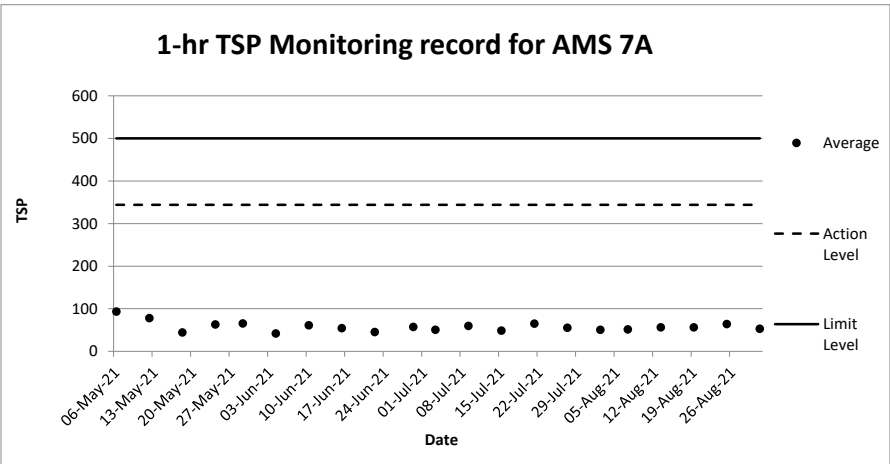
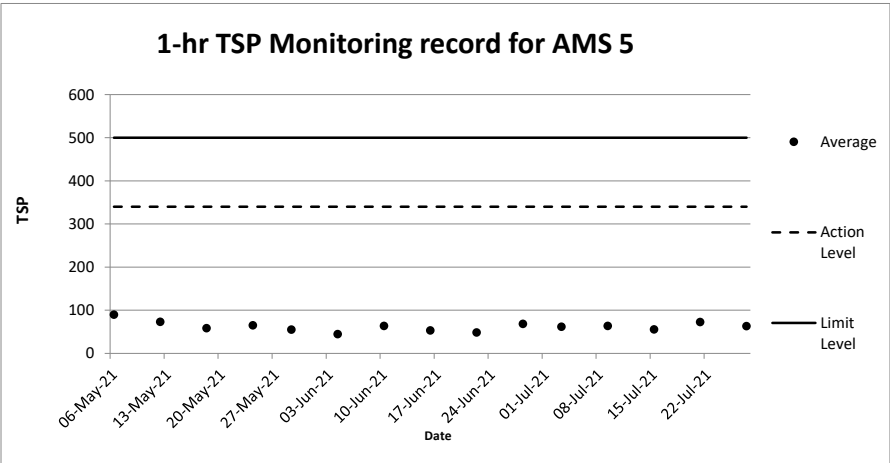
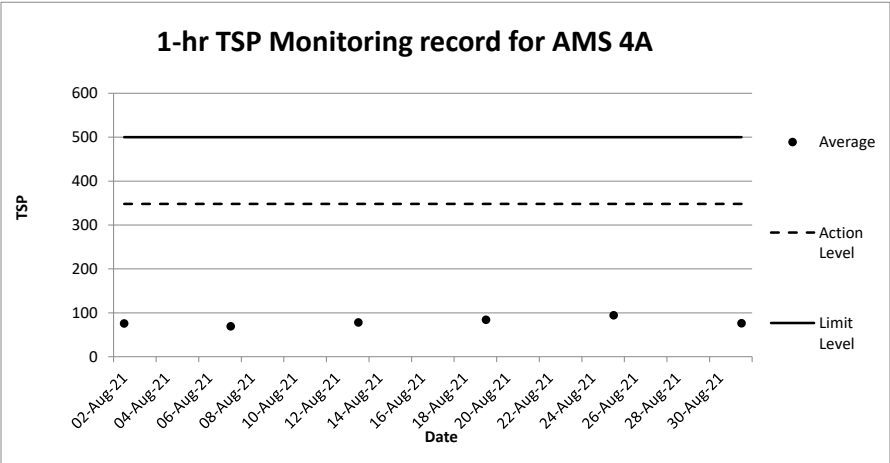
AMS 14 - Ha Wo Che

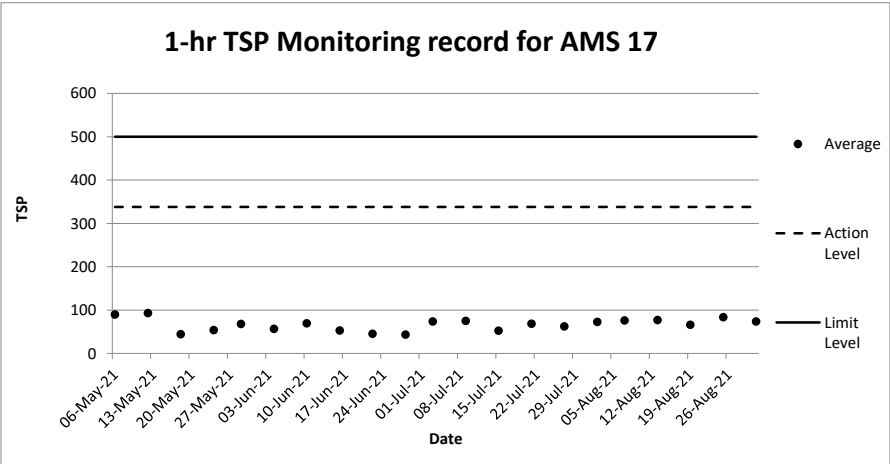
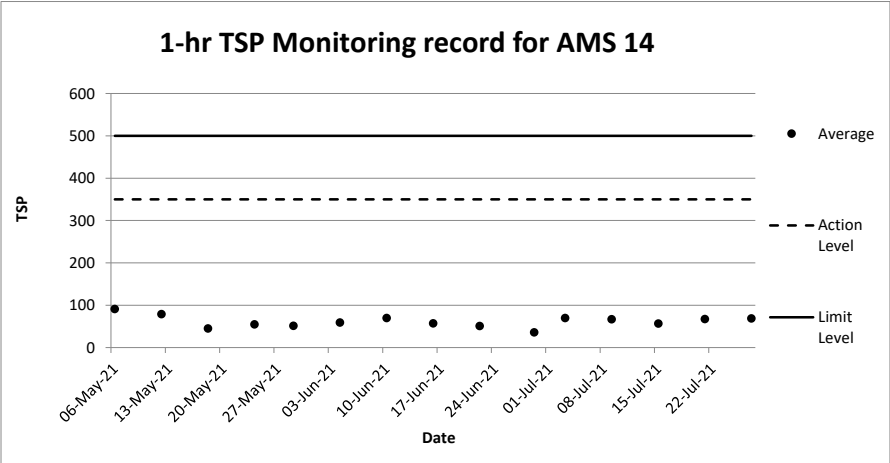
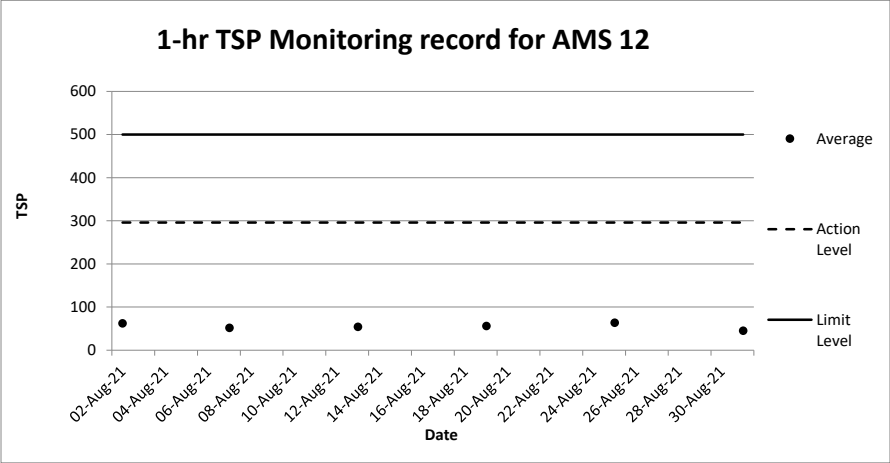
1-hour TSP ($\mu\text{g}/\text{m}^3$)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
06-May-21	15:46	88	91	94	91	350	500	Fine
12-May-21	14:43	84	77	76	79			Fine
18-May-21	16:58	41	47	48	45			Sunny
24-May-21	15:02	60	54	51	55			Fine
29-May-21	14:18	47	52	55	51			Fine
04-Jun-21	09:46	60	59	59	59	350	500	Fine
10-Jun-21	14:17	67	72	70	70			Fine
16-Jun-21	10:42	59	57	56	57			Fine
22-Jun-21	13:29	37	57	59	51			Fine
29-Jun-21	09:11	33	36	39	36			Fine
03-Jul-21	16:11	67	70	72	70	350	500	Fine
09-Jul-21	14:51	64	67	70	67			Sunny
15-Jul-21	07:44	60	51	60	57			Fine
21-Jul-21	12:43	67	65	71	68			Fine
27-Jul-21	09:42	70	70	67	69			Overcast
Average		62						
Max		94						
Min		33						

AMS 17 - Wo Che Estate

1-hour TSP ($\mu\text{g}/\text{m}^3$)								
Date	Start Time	1st hr	2nd hr	3rd hr	Average	Action Level	Limit Level	Weather
06-May-21	13:03	87	91	90	89	338	500	Fine
12-May-21	16:26	91	94	94	93			Fine
18-May-21	08:10	48	36	48	44			Sunny
24-May-21	12:16	53	64	44	54			Fine
29-May-21	12:38	68	68	67	68			Fine
04-Jun-21	07:59	53	57	59	56	338	500	Fine
10-Jun-21	12:26	65	74	68	69			Fine
16-Jun-21	08:28	57	50	51	53			Fine
22-Jun-21	14:15	45	48	42	45			Fine
28-Jun-21	15:19	43	44	43	43			Overcast
03-Jul-21	18:42	67	74	80	74	338	500	Fine
09-Jul-21	14:40	77	75	72	75			Sunny
15-Jul-21	13:36	57	54	45	52			Fine
21-Jul-21	11:47	73	65	67	68			Fine
27-Jul-21	08:56	65	57	65	62			Overcast
02-Aug-21	14:06	69	79	69	72	338	500	Sunny
07-Aug-21	13:58	74	77	77	76			Fine
13-Aug-21	13:05	87	77	67	77			Fine
19-Aug-21	14:58	74	72	52	66			Fine
25-Aug-21	13:03	97	79	74	83			Sunny
31-Aug-21	09:10	87	64	69	73			Overcast
Average		66						
Max		97						
Min		36						

- 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.





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

AMS4A - Wai Wah Centre

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
02/08/2021 07:24	48
02/08/2021 08:24	46
02/08/2021 09:24	50
02/08/2021 10:24	79
02/08/2021 11:24	72
02/08/2021 12:24	70
02/08/2021 13:24	84
02/08/2021 14:24	46
02/08/2021 15:24	50
02/08/2021 16:24	72
02/08/2021 17:24	77
02/08/2021 18:24	72
02/08/2021 19:24	53
02/08/2021 20:24	65
02/08/2021 21:24	60
02/08/2021 22:24	82
02/08/2021 23:24	72
03/08/2021 00:24	43
03/08/2021 01:24	62
03/08/2021 02:24	65
03/08/2021 03:24	72
03/08/2021 04:24	82
03/08/2021 05:24	67
03/08/2021 06:24	60
Average	65
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
07/08/2021 07:13	38
07/08/2021 08:13	74
07/08/2021 09:13	55
07/08/2021 10:13	48
07/08/2021 11:13	38
07/08/2021 12:13	70
07/08/2021 13:13	50
07/08/2021 14:13	70
07/08/2021 15:13	70
07/08/2021 16:13	67
07/08/2021 17:13	69
07/08/2021 18:13	67
07/08/2021 19:13	62
07/08/2021 20:13	50
07/08/2021 21:13	62
07/08/2021 22:13	41
07/08/2021 23:13	55
08/08/2021 00:13	50
08/08/2021 01:13	53
08/08/2021 02:13	65
08/08/2021 03:13	38
08/08/2021 04:13	46
08/08/2021 05:13	50
08/08/2021 06:13	50
Average	56
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
13/08/2021 07:16	80
13/08/2021 08:16	65
13/08/2021 09:16	84
13/08/2021 10:16	53
13/08/2021 11:16	79
13/08/2021 12:16	82
13/08/2021 13:16	72
13/08/2021 14:16	67
13/08/2021 15:16	50
13/08/2021 16:16	65
13/08/2021 17:16	65
13/08/2021 18:16	67
13/08/2021 19:16	60
13/08/2021 20:16	72
13/08/2021 21:16	86
13/08/2021 22:16	77
13/08/2021 23:16	65
14/08/2021 00:16	86
14/08/2021 01:16	77
14/08/2021 02:16	50
14/08/2021 03:16	79
14/08/2021 04:16	74
14/08/2021 05:16	77
14/08/2021 06:16	77
Average	71
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
19/08/2021 07:10	77
19/08/2021 08:10	79
19/08/2021 09:10	62
19/08/2021 10:10	86
19/08/2021 11:10	77
19/08/2021 12:10	77
19/08/2021 13:10	79
19/08/2021 14:10	65
19/08/2021 15:10	67
19/08/2021 16:10	82
19/08/2021 17:10	86
19/08/2021 18:10	84
19/08/2021 19:10	79
19/08/2021 20:10	74
19/08/2021 21:10	79
19/08/2021 22:10	79
19/08/2021 23:10	86
20/08/2021 00:10	46
20/08/2021 01:10	72
20/08/2021 02:10	67
20/08/2021 03:10	79
20/08/2021 04:10	50
20/08/2021 05:10	65
20/08/2021 06:10	86
Average	74
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
25/08/2021 07:18	58
25/08/2021 08:18	62
25/08/2021 09:18	96
25/08/2021 10:18	91
25/08/2021 11:18	96
25/08/2021 12:18	60
25/08/2021 13:18	96
25/08/2021 14:18	60
25/08/2021 15:18	74
25/08/2021 16:18	89
25/08/2021 17:18	84
25/08/2021 18:18	77
25/08/2021 19:18	86
25/08/2021 20:18	74
25/08/2021 21:18	97
25/08/2021 22:18	67
25/08/2021 23:18	70
26/08/2021 00:18	62
26/08/2021 01:18	84
26/08/2021 02:18	89
26/08/2021 03:18	74
26/08/2021 04:18	70
26/08/2021 05:18	60
26/08/2021 06:18	91
Average	78
Action Level	200
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
31/08/2021 07:30	67
31/08/2021 08:30	50
31/08/2021 09:30	77
31/08/2021 10:30	89
31/08/2021 11:30	62
31/08/2021 12:30	50
31/08/2021 13:30	41
31/08/2021 14:30	60
31/08/2021 15:30	77
31/08/2021 16:30	77
31/08/2021 17:30	65
31/08/2021 18:30	46
31/08/2021 19:30	43
31/08/2021 20:30	41
31/08/2021 21:30	48
31/08/2021 22:30	77
31/08/2021 23:30	46
01/09/2021 00:30	53
01/09/2021 01:30	70
01/09/2021 02:30	74
01/09/2021 03:30	48
01/09/2021 04:30	46
01/09/2021 05:30	60
01/09/2021 06:30	46
Average	59
Action Level	200
Limit Level	260

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

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

AMSS - Tin Liu

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
06/05/2021 07:18	80
06/05/2021 08:18	82
06/05/2021 09:18	88
06/05/2021 10:18	88
06/05/2021 11:18	94
06/05/2021 12:18	83
06/05/2021 13:18	68
06/05/2021 14:18	89
06/05/2021 15:18	80
06/05/2021 16:18	83
06/05/2021 17:18	80
06/05/2021 18:18	92
06/05/2021 19:18	67
06/05/2021 20:18	92
06/05/2021 21:18	86
06/05/2021 22:18	70
06/05/2021 23:18	74
07/05/2021 00:18	92
07/05/2021 01:18	80
07/05/2021 02:18	83
07/05/2021 03:18	94
07/05/2021 04:18	70
07/05/2021 05:18	83
07/05/2021 06:18	89
Average	83
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
12/05/2021 08:18	56
12/05/2021 09:18	77
12/05/2021 10:18	65
12/05/2021 11:18	70
12/05/2021 12:18	56
12/05/2021 13:18	56
12/05/2021 14:18	79
12/05/2021 15:18	65
12/05/2021 16:18	76
12/05/2021 17:18	77
12/05/2021 18:18	48
12/05/2021 19:18	71
12/05/2021 20:18	52
12/05/2021 21:18	61
12/05/2021 22:18	59
12/05/2021 23:18	68
13/05/2021 00:18	59
13/05/2021 01:18	62
13/05/2021 02:18	53
13/05/2021 03:18	50
13/05/2021 04:18	71
13/05/2021 05:18	61
13/05/2021 06:18	79
13/05/2021 07:18	50
Average	63
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
18/05/2021 07:39	54
18/05/2021 08:39	61
18/05/2021 09:39	54
18/05/2021 10:39	38
18/05/2021 11:39	32
18/05/2021 12:39	57
18/05/2021 13:39	51
18/05/2021 14:39	43
18/05/2021 15:39	53
18/05/2021 16:39	59
18/05/2021 17:39	62
18/05/2021 18:39	54
18/05/2021 19:39	29
18/05/2021 20:39	40
18/05/2021 21:39	61
18/05/2021 22:39	35
18/05/2021 23:39	35
19/05/2021 00:39	51
19/05/2021 01:39	30
19/05/2021 02:39	57
19/05/2021 03:39	27
19/05/2021 04:39	61
19/05/2021 05:39	57
19/05/2021 06:39	46
Average	48
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
24/05/2021 07:43	51
24/05/2021 08:43	59
24/05/2021 09:43	40
24/05/2021 10:43	54
24/05/2021 11:43	64
24/05/2021 12:43	67
24/05/2021 13:43	64
24/05/2021 14:43	42
24/05/2021 15:43	59
24/05/2021 16:43	54
24/05/2021 17:43	62
24/05/2021 18:43	45
24/05/2021 19:43	57
24/05/2021 20:43	61
24/05/2021 21:43	53
24/05/2021 22:43	42
24/05/2021 23:43	54
25/05/2021 00:43	65
25/05/2021 01:43	67
25/05/2021 02:43	50
25/05/2021 03:43	45
25/05/2021 04:43	54
25/05/2021 05:43	59
25/05/2021 06:43	54
Average	55
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
29/05/2021 08:46	44
29/05/2021 09:46	38
29/05/2021 10:46	41
29/05/2021 11:46	41
29/05/2021 12:46	44
29/05/2021 13:46	46
29/05/2021 14:46	57
29/05/2021 15:46	55
29/05/2021 16:46	54
29/05/2021 17:46	47
29/05/2021 18:46	49
29/05/2021 19:46	51
29/05/2021 20:46	54
29/05/2021 21:46	54
29/05/2021 22:46	41
29/05/2021 23:46	43
30/05/2021 00:46	38
30/05/2021 01:46	44
30/05/2021 02:46	41
30/05/2021 03:46	44
30/05/2021 04:46	54
30/05/2021 05:46	55
30/05/2021 06:46	46
30/05/2021 07:46	47
Average	47
Action Level	156
Limit Level	260

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

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

AMSS - Tin Liu

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
04/06/2021 07:21	30
04/06/2021 08:21	38
04/06/2021 09:21	33
04/06/2021 10:21	29
04/06/2021 11:21	47
04/06/2021 12:21	35
04/06/2021 13:21	30
04/06/2021 14:21	36
04/06/2021 15:21	41
04/06/2021 16:21	48
04/06/2021 17:21	45
04/06/2021 18:21	29
04/06/2021 19:21	45
04/06/2021 20:21	33
04/06/2021 21:21	44
04/06/2021 22:21	42
04/06/2021 23:21	30
05/06/2021 00:21	29
05/06/2021 01:21	33
05/06/2021 02:21	48
05/06/2021 03:21	35
05/06/2021 04:21	38
05/06/2021 05:21	35
05/06/2021 06:21	41
Average	37
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
10/06/2021 08:32	30
10/06/2021 09:32	35
10/06/2021 10:32	41
10/06/2021 11:32	41
10/06/2021 12:32	44
10/06/2021 13:32	46
10/06/2021 14:32	41
10/06/2021 15:32	60
10/06/2021 16:32	65
10/06/2021 17:32	66
10/06/2021 18:32	41
10/06/2021 19:32	46
10/06/2021 20:32	59
10/06/2021 21:32	60
10/06/2021 22:32	49
10/06/2021 23:32	54
11/06/2021 00:32	52
11/06/2021 01:32	57
11/06/2021 02:32	54
11/06/2021 03:32	47
11/06/2021 04:32	47
11/06/2021 05:32	41
11/06/2021 06:32	44
11/06/2021 07:32	41
Average	48
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
16/06/2021 08:06	38
16/06/2021 09:06	56
16/06/2021 10:06	32
16/06/2021 11:06	55
16/06/2021 12:06	41
16/06/2021 13:06	55
16/06/2021 14:06	36
16/06/2021 15:06	33
16/06/2021 16:06	41
16/06/2021 17:06	55
16/06/2021 18:06	55
16/06/2021 19:06	50
16/06/2021 20:06	33
16/06/2021 21:06	53
16/06/2021 22:06	39
16/06/2021 23:06	42
17/06/2021 00:06	32
17/06/2021 01:06	36
17/06/2021 02:06	52
17/06/2021 03:06	41
17/06/2021 04:06	33
17/06/2021 05:06	41
17/06/2021 06:06	32
17/06/2021 07:06	47
Average	43
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
22/06/2021 07:55	52
22/06/2021 08:55	32
22/06/2021 09:55	53
22/06/2021 10:55	27
22/06/2021 11:55	47
22/06/2021 12:55	29
22/06/2021 13:55	50
22/06/2021 14:55	50
22/06/2021 15:55	45
22/06/2021 16:55	38
22/06/2021 17:55	44
22/06/2021 18:55	27
22/06/2021 19:55	53
22/06/2021 20:55	29
22/06/2021 21:55	32
22/06/2021 22:55	32
22/06/2021 23:55	38
23/06/2021 00:55	29
23/06/2021 01:55	35
23/06/2021 02:55	50
23/06/2021 03:55	48
23/06/2021 04:55	41
23/06/2021 05:55	27
23/06/2021 06:55	53
Average	40
Action Level	156
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
28/06/2021 13:05	42
28/06/2021 14:05	48
28/06/2021 15:05	49
28/06/2021 16:05	65
28/06/2021 17:05	68
28/06/2021 18:05	72
28/06/2021 19:05	65
28/06/2021 20:05	55
28/06/2021 21:05	61
28/06/2021 22:05	59
28/06/2021 23:05	57
29/06/2021 00:05	49
29/06/2021 01:05	46
29/06/2021 02:05	42
29/06/2021 03:05	34
29/06/2021 04:05	30
29/06/2021 05:05	30
29/06/2021 06:05	42
29/06/2021 07:05	36
29/06/2021 08:05	49
29/06/2021 09:05	47
29/06/2021 10:05	42
29/06/2021 11:05	38
29/06/2021 12:05	32
Average	48
Action Level	156
Limit Level	260

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

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

AM55 - Tin Liu

Date and Time	TSP Concentration (µg/m³)
03/07/2021 08:34	35
03/07/2021 09:34	33
03/07/2021 10:34	28
03/07/2021 11:34	30
03/07/2021 12:34	41
03/07/2021 13:34	40
03/07/2021 14:34	38
03/07/2021 15:34	62
03/07/2021 16:34	60
03/07/2021 17:34	63
03/07/2021 18:34	57
03/07/2021 19:34	55
03/07/2021 20:34	46
03/07/2021 21:34	49
03/07/2021 22:34	51
03/07/2021 23:34	54
04/07/2021 00:34	52
04/07/2021 01:34	44
04/07/2021 02:34	41
04/07/2021 03:34	40
04/07/2021 04:34	41
04/07/2021 05:34	46
04/07/2021 06:34	51
04/07/2021 07:34	54
Average	46
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
09/07/2021 08:24	59
09/07/2021 09:24	58
09/07/2021 10:24	55
09/07/2021 11:24	64
09/07/2021 12:24	55
09/07/2021 13:24	62
09/07/2021 14:24	59
09/07/2021 15:24	67
09/07/2021 16:24	68
09/07/2021 17:24	56
09/07/2021 18:24	62
09/07/2021 19:24	52
09/07/2021 20:24	70
09/07/2021 21:24	61
09/07/2021 22:24	55
09/07/2021 23:24	64
10/07/2021 00:24	62
10/07/2021 01:24	64
10/07/2021 02:24	55
10/07/2021 03:24	56
10/07/2021 04:24	50
10/07/2021 05:24	53
10/07/2021 06:24	68
10/07/2021 07:24	50
Average	59
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
15/07/2021 08:09	50
15/07/2021 09:09	56
15/07/2021 10:09	58
15/07/2021 11:09	53
15/07/2021 12:09	42
15/07/2021 13:09	59
15/07/2021 14:09	44
15/07/2021 15:09	52
15/07/2021 16:09	44
15/07/2021 17:09	58
15/07/2021 18:09	55
15/07/2021 19:09	44
15/07/2021 20:09	52
15/07/2021 21:09	52
15/07/2021 22:09	50
15/07/2021 23:09	53
16/07/2021 00:09	45
16/07/2021 01:09	44
16/07/2021 02:09	42
16/07/2021 03:09	44
16/07/2021 04:09	58
16/07/2021 05:09	45
16/07/2021 06:09	42
16/07/2021 07:09	50
Average	50
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
21/07/2021 09:11	57
21/07/2021 10:11	54
21/07/2021 11:11	65
21/07/2021 12:11	71
21/07/2021 13:11	60
21/07/2021 14:11	87
21/07/2021 15:11	71
21/07/2021 16:11	54
21/07/2021 17:11	57
21/07/2021 18:11	51
21/07/2021 19:11	60
21/07/2021 20:11	49
21/07/2021 21:11	44
21/07/2021 22:11	62
21/07/2021 23:11	38
22/07/2021 00:11	41
22/07/2021 01:11	43
22/07/2021 02:11	35
22/07/2021 03:11	41
22/07/2021 04:11	47
22/07/2021 05:11	50
22/07/2021 06:11	38
22/07/2021 07:11	44
22/07/2021 08:11	43
Average	53
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
27/07/2021 07:10	48
27/07/2021 08:10	58
27/07/2021 09:10	55
27/07/2021 10:10	52
27/07/2021 11:10	64
27/07/2021 12:10	61
27/07/2021 13:10	64
27/07/2021 14:10	59
27/07/2021 15:10	55
27/07/2021 16:10	48
27/07/2021 17:10	50
27/07/2021 18:10	58
27/07/2021 19:10	64
27/07/2021 20:10	62
27/07/2021 21:10	58
27/07/2021 22:10	55
27/07/2021 23:10	55
28/07/2021 00:10	58
28/07/2021 01:10	59
28/07/2021 02:10	55
28/07/2021 03:10	53
28/07/2021 04:10	65
28/07/2021 05:10	56
28/07/2021 06:10	59
Average	57
Action Level	156
Limit Level	260

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

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

AMS7A - Sheung Wo Che

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
06/05/2021 07:30	96
06/05/2021 08:30	80
06/05/2021 09:30	74
06/05/2021 10:30	80
06/05/2021 11:30	80
06/05/2021 12:30	87
06/05/2021 13:30	98
06/05/2021 14:30	99
06/05/2021 15:30	83
06/05/2021 16:30	77
06/05/2021 17:30	89
06/05/2021 18:30	83
06/05/2021 19:30	92
06/05/2021 20:30	83
06/05/2021 21:30	99
06/05/2021 22:30	80
06/05/2021 23:30	93
07/05/2021 00:30	77
07/05/2021 01:30	99
07/05/2021 02:30	87
07/05/2021 03:30	96
07/05/2021 04:30	93
07/05/2021 05:30	86
07/05/2021 06:30	70
Average	87
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
12/05/2021 07:59	82
12/05/2021 08:59	76
12/05/2021 09:59	76
12/05/2021 10:59	61
12/05/2021 11:59	58
12/05/2021 12:59	70
12/05/2021 13:59	67
12/05/2021 14:59	83
12/05/2021 15:59	61
12/05/2021 16:59	63
12/05/2021 17:59	83
12/05/2021 18:59	66
12/05/2021 19:59	60
12/05/2021 20:59	52
12/05/2021 21:59	63
12/05/2021 22:59	83
12/05/2021 23:59	80
13/05/2021 00:59	52
13/05/2021 01:59	84
13/05/2021 02:59	54
13/05/2021 03:59	52
13/05/2021 04:59	80
13/05/2021 05:59	60
13/05/2021 06:59	80
Average	69
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
18/05/2021 07:50	46
18/05/2021 08:50	42
18/05/2021 09:50	45
18/05/2021 10:50	46
18/05/2021 11:50	34
18/05/2021 12:50	45
18/05/2021 13:50	33
18/05/2021 14:50	37
18/05/2021 15:50	48
18/05/2021 16:50	40
18/05/2021 17:50	29
18/05/2021 18:50	31
18/05/2021 19:50	46
18/05/2021 20:50	29
18/05/2021 21:50	46
18/05/2021 22:50	45
18/05/2021 23:50	42
19/05/2021 00:50	46
19/05/2021 01:50	36
19/05/2021 02:50	42
19/05/2021 03:50	34
19/05/2021 04:50	31
19/05/2021 05:50	46
19/05/2021 06:50	34
Average	40
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
24/05/2021 07:55	65
24/05/2021 08:55	57
24/05/2021 09:55	68
24/05/2021 10:55	46
24/05/2021 11:55	57
24/05/2021 12:55	42
24/05/2021 13:55	62
24/05/2021 14:55	57
24/05/2021 15:55	68
24/05/2021 16:55	46
24/05/2021 17:55	60
24/05/2021 18:55	40
24/05/2021 19:55	43
24/05/2021 20:55	56
24/05/2021 21:55	45
24/05/2021 22:55	43
24/05/2021 23:55	68
25/05/2021 00:55	62
25/05/2021 01:55	53
25/05/2021 02:55	50
25/05/2021 03:55	54
25/05/2021 04:55	68
25/05/2021 05:55	67
25/05/2021 06:55	51
Average	55
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
29/05/2021 09:06	49
29/05/2021 10:06	53
29/05/2021 11:06	56
29/05/2021 12:06	58
29/05/2021 13:06	62
29/05/2021 14:06	68
29/05/2021 15:06	67
29/05/2021 16:06	61
29/05/2021 17:06	59
29/05/2021 18:06	50
29/05/2021 19:06	55
29/05/2021 20:06	56
29/05/2021 21:06	47
29/05/2021 22:06	47
29/05/2021 23:06	41
30/05/2021 00:06	39
30/05/2021 01:06	43
30/05/2021 02:06	39
30/05/2021 03:06	41
30/05/2021 04:06	41
30/05/2021 05:06	47
30/05/2021 06:06	44
30/05/2021 07:06	39
30/05/2021 08:06	40
Average	50
Action Level	171
Limit Level	260

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

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

AMS7A - Sheung Wo Che

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
04/06/2021 07:29	45
04/06/2021 08:29	29
04/06/2021 09:29	35
04/06/2021 10:29	39
04/06/2021 11:29	48
04/06/2021 12:29	33
04/06/2021 13:29	41
04/06/2021 14:29	29
04/06/2021 15:29	50
04/06/2021 16:29	32
04/06/2021 17:29	44
04/06/2021 18:29	28
04/06/2021 19:29	31
04/06/2021 20:29	28
04/06/2021 21:29	48
04/06/2021 22:29	31
04/06/2021 23:29	36
05/06/2021 00:29	42
05/06/2021 01:29	42
05/06/2021 02:29	38
05/06/2021 03:29	32
05/06/2021 04:29	38
05/06/2021 05:29	47
05/06/2021 06:29	31
Average	37
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
10/06/2021 09:14	33
10/06/2021 10:14	28
10/06/2021 11:14	27
10/06/2021 12:14	39
10/06/2021 13:14	30
10/06/2021 14:14	34
10/06/2021 15:14	41
10/06/2021 16:14	58
10/06/2021 17:14	62
10/06/2021 18:14	64
10/06/2021 19:14	44
10/06/2021 20:14	44
10/06/2021 21:14	39
10/06/2021 22:14	43
10/06/2021 23:14	49
11/06/2021 00:14	53
11/06/2021 01:14	54
11/06/2021 02:14	50
11/06/2021 03:14	52
11/06/2021 04:14	47
11/06/2021 05:14	53
11/06/2021 06:14	50
11/06/2021 07:14	44
11/06/2021 08:14	46
Average	45
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
16/06/2021 07:55	28
16/06/2021 08:55	31
16/06/2021 09:55	29
16/06/2021 10:55	54
16/06/2021 11:55	52
16/06/2021 12:55	57
16/06/2021 13:55	29
16/06/2021 14:55	31
16/06/2021 15:55	33
16/06/2021 16:55	31
16/06/2021 17:55	55
16/06/2021 18:55	38
16/06/2021 19:55	55
16/06/2021 20:55	45
16/06/2021 21:55	28
16/06/2021 22:55	44
16/06/2021 23:55	51
17/06/2021 00:55	38
17/06/2021 01:55	48
17/06/2021 02:55	44
17/06/2021 03:55	50
17/06/2021 04:55	47
17/06/2021 05:55	36
17/06/2021 06:55	54
Average	42
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
22/06/2021 07:40	39
22/06/2021 08:40	35
22/06/2021 09:40	38
22/06/2021 10:40	51
22/06/2021 11:40	35
22/06/2021 12:40	50
22/06/2021 13:40	38
22/06/2021 14:40	41
22/06/2021 15:40	33
22/06/2021 16:40	44
22/06/2021 17:40	41
22/06/2021 18:40	44
22/06/2021 19:40	52
22/06/2021 20:40	55
22/06/2021 21:40	32
22/06/2021 22:40	47
22/06/2021 23:40	52
23/06/2021 00:40	31
23/06/2021 01:40	42
23/06/2021 02:40	36
23/06/2021 03:40	33
23/06/2021 04:40	47
23/06/2021 05:40	51
23/06/2021 06:40	33
Average	42
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
28/06/2021 13:22	47
28/06/2021 14:22	46
28/06/2021 15:22	41
28/06/2021 16:22	44
28/06/2021 17:22	50
28/06/2021 18:22	49
28/06/2021 19:22	55
28/06/2021 20:22	52
28/06/2021 21:22	49
28/06/2021 22:22	46
28/06/2021 23:22	54
29/06/2021 00:22	50
29/06/2021 01:22	51
29/06/2021 02:22	46
29/06/2021 03:22	41
29/06/2021 04:22	40
29/06/2021 05:22	37
29/06/2021 06:22	34
29/06/2021 07:22	40
29/06/2021 08:22	43
29/06/2021 09:22	44
29/06/2021 10:22	55
29/06/2021 11:22	58
29/06/2021 12:22	60
Average	47
Action Level	171
Limit Level	260

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

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

AMS7A - Sheung Wo Che

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
03/07/2021 09:11	52
03/07/2021 10:11	53
03/07/2021 11:11	47
03/07/2021 12:11	32
03/07/2021 13:11	41
03/07/2021 14:11	39
03/07/2021 15:11	40
03/07/2021 16:11	33
03/07/2021 17:11	33
03/07/2021 18:11	39
03/07/2021 19:11	43
03/07/2021 20:11	41
03/07/2021 21:11	36
03/07/2021 22:11	43
03/07/2021 23:11	46
04/07/2021 00:11	53
04/07/2021 01:11	50
04/07/2021 02:11	46
04/07/2021 03:11	46
04/07/2021 04:11	36
04/07/2021 05:11	37
04/07/2021 06:11	34
04/07/2021 07:11	39
04/07/2021 08:11	40
Average	42
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
09/07/2021 08:06	52
09/07/2021 09:06	52
09/07/2021 10:06	64
09/07/2021 11:06	63
09/07/2021 12:06	52
09/07/2021 13:06	64
09/07/2021 14:06	54
09/07/2021 15:06	45
09/07/2021 16:06	55
09/07/2021 17:06	57
09/07/2021 18:06	48
09/07/2021 19:06	64
09/07/2021 20:06	50
09/07/2021 21:06	44
09/07/2021 22:06	60
09/07/2021 23:06	55
10/07/2021 00:06	63
10/07/2021 01:06	64
10/07/2021 02:06	45
10/07/2021 03:06	66
10/07/2021 04:06	61
10/07/2021 05:06	45
10/07/2021 06:06	42
10/07/2021 07:06	50
Average	55
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
15/07/2021 08:00	51
15/07/2021 09:00	47
15/07/2021 10:00	47
15/07/2021 11:00	38
15/07/2021 12:00	44
15/07/2021 13:00	50
15/07/2021 14:00	45
15/07/2021 15:00	51
15/07/2021 16:00	48
15/07/2021 17:00	41
15/07/2021 18:00	52
15/07/2021 19:00	48
15/07/2021 20:00	38
15/07/2021 21:00	39
15/07/2021 22:00	47
15/07/2021 23:00	45
16/07/2021 00:00	51
16/07/2021 01:00	39
16/07/2021 02:00	45
16/07/2021 03:00	50
16/07/2021 04:00	38
16/07/2021 05:00	45
16/07/2021 06:00	47
16/07/2021 07:00	41
Average	45
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
21/07/2021 09:20	36
21/07/2021 10:20	37
21/07/2021 11:20	41
21/07/2021 12:20	38
21/07/2021 13:20	31
21/07/2021 14:20	43
21/07/2021 15:20	49
21/07/2021 16:20	66
21/07/2021 17:20	60
21/07/2021 18:20	70
21/07/2021 19:20	47
21/07/2021 20:20	54
21/07/2021 21:20	60
21/07/2021 22:20	64
21/07/2021 23:20	55
22/07/2021 00:20	49
22/07/2021 01:20	57
22/07/2021 02:20	49
22/07/2021 03:20	44
22/07/2021 04:20	52
22/07/2021 05:20	40
22/07/2021 06:20	37
22/07/2021 07:20	35
22/07/2021 08:20	44
Average	48
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
27/07/2021 07:25	47
27/07/2021 08:25	42
27/07/2021 09:25	58
27/07/2021 10:25	58
27/07/2021 11:25	50
27/07/2021 12:25	54
27/07/2021 13:25	45
27/07/2021 14:25	52
27/07/2021 15:25	44
27/07/2021 16:25	58
27/07/2021 17:25	51
27/07/2021 18:25	54
27/07/2021 19:25	44
27/07/2021 20:25	58
27/07/2021 21:25	55
27/07/2021 22:25	44
27/07/2021 23:25	44
28/07/2021 00:25	45
28/07/2021 01:25	55
28/07/2021 02:25	41
28/07/2021 03:25	48
28/07/2021 04:25	58
28/07/2021 05:25	42
28/07/2021 06:25	42
Average	50
Action Level	171
Limit Level	260

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

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

AMS7A - Sheung Wo Che

Date and Time	TSP Concentration (µg/m³)
02/08/2021 07:39	35
02/08/2021 08:39	44
02/08/2021 09:39	47
02/08/2021 10:39	39
02/08/2021 11:39	46
02/08/2021 12:39	49
02/08/2021 13:39	54
02/08/2021 14:39	36
02/08/2021 15:39	35
02/08/2021 16:39	44
02/08/2021 17:39	32
02/08/2021 18:39	47
02/08/2021 19:39	46
02/08/2021 20:39	50
02/08/2021 21:39	46
02/08/2021 22:39	52
02/08/2021 23:39	52
03/08/2021 00:39	38
03/08/2021 01:39	41
03/08/2021 02:39	44
03/08/2021 03:39	43
03/08/2021 04:39	43
03/08/2021 05:39	41
03/08/2021 06:39	46
Average	44
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
07/08/2021 07:27	44
07/08/2021 08:27	47
07/08/2021 09:27	33
07/08/2021 10:27	52
07/08/2021 11:27	54
07/08/2021 12:27	49
07/08/2021 13:27	49
07/08/2021 14:27	38
07/08/2021 15:27	39
07/08/2021 16:27	50
07/08/2021 17:27	35
07/08/2021 18:27	30
07/08/2021 19:27	44
07/08/2021 20:27	50
07/08/2021 21:27	33
07/08/2021 22:27	46
07/08/2021 23:27	55
08/08/2021 00:27	46
08/08/2021 01:27	47
08/08/2021 02:27	50
08/08/2021 03:27	44
08/08/2021 04:27	54
08/08/2021 05:27	50
08/08/2021 06:27	32
Average	45
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
13/08/2021 07:32	49
13/08/2021 08:32	47
13/08/2021 09:32	41
13/08/2021 10:32	38
13/08/2021 11:32	38
13/08/2021 12:32	46
13/08/2021 13:32	32
13/08/2021 14:32	54
13/08/2021 15:32	58
13/08/2021 16:32	57
13/08/2021 17:32	49
13/08/2021 18:32	32
13/08/2021 19:32	33
13/08/2021 20:32	50
13/08/2021 21:32	44
13/08/2021 22:32	57
13/08/2021 23:32	58
14/08/2021 00:32	32
14/08/2021 01:32	33
14/08/2021 02:32	50
14/08/2021 03:32	58
14/08/2021 04:32	49
14/08/2021 05:32	36
14/08/2021 06:32	58
Average	46
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
19/08/2021 07:23	46
19/08/2021 08:23	39
19/08/2021 09:23	38
19/08/2021 10:23	52
19/08/2021 11:23	60
19/08/2021 12:23	58
19/08/2021 13:23	38
19/08/2021 14:23	39
19/08/2021 15:23	57
19/08/2021 16:23	36
19/08/2021 17:23	43
19/08/2021 18:23	47
19/08/2021 19:23	60
19/08/2021 20:23	41
19/08/2021 21:23	38
19/08/2021 22:23	49
19/08/2021 23:23	43
20/08/2021 00:23	39
20/08/2021 01:23	57
20/08/2021 02:23	49
20/08/2021 03:23	35
20/08/2021 04:23	50
20/08/2021 05:23	46
20/08/2021 06:23	43
Average	46
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
25/08/2021 07:27	65
25/08/2021 08:27	41
25/08/2021 09:27	49
25/08/2021 10:27	55
25/08/2021 11:27	61
25/08/2021 12:27	65
25/08/2021 13:27	54
25/08/2021 14:27	58
25/08/2021 15:27	63
25/08/2021 16:27	66
25/08/2021 17:27	63
25/08/2021 18:27	61
25/08/2021 19:27	57
25/08/2021 20:27	46
25/08/2021 21:27	54
25/08/2021 22:27	41
25/08/2021 23:27	66
26/08/2021 00:27	54
26/08/2021 01:27	52
26/08/2021 02:27	68
26/08/2021 03:27	54
26/08/2021 04:27	54
26/08/2021 05:27	68
26/08/2021 06:27	66
Average	57
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
31/08/2021 07:44	50
31/08/2021 08:44	54
31/08/2021 09:44	55
31/08/2021 10:44	39
31/08/2021 11:44	43
31/08/2021 12:44	49
31/08/2021 13:44	36
31/08/2021 14:44	52
31/08/2021 15:44	55
31/08/2021 16:44	46
31/08/2021 17:44	54
31/08/2021 18:44	39
31/08/2021 19:44	54
31/08/2021 20:44	47
31/08/2021 21:44	43
31/08/2021 22:44	47
31/08/2021 23:44	39
01/09/2021 00:44	46
01/09/2021 01:44	33
01/09/2021 02:44	50
01/09/2021 03:44	44
01/09/2021 04:44	52
01/09/2021 05:44	35
01/09/2021 06:44	39
Average	46
Action Level	171
Limit Level	260

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

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

AMS 12 - Fung Wo Estate

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
02/08/2021 07:55	40
02/08/2021 08:55	49
02/08/2021 09:55	54
02/08/2021 10:55	50
02/08/2021 11:55	63
02/08/2021 12:55	60
02/08/2021 13:55	60
02/08/2021 14:55	66
02/08/2021 15:55	60
02/08/2021 16:55	55
02/08/2021 17:55	61
02/08/2021 18:55	60
02/08/2021 19:55	41
02/08/2021 20:55	69
02/08/2021 21:55	52
02/08/2021 22:55	61
02/08/2021 23:55	63
03/08/2021 00:55	58
03/08/2021 01:55	57
03/08/2021 02:55	50
03/08/2021 03:55	41
03/08/2021 04:55	40
03/08/2021 05:55	58
03/08/2021 06:55	55
Average	55
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
07/08/2021 07:45	60
07/08/2021 08:45	49
07/08/2021 09:45	44
07/08/2021 10:45	50
07/08/2021 11:45	43
07/08/2021 12:45	40
07/08/2021 13:45	55
07/08/2021 14:45	60
07/08/2021 15:45	35
07/08/2021 16:45	49
07/08/2021 17:45	47
07/08/2021 18:45	49
07/08/2021 19:45	37
07/08/2021 20:45	54
07/08/2021 21:45	38
07/08/2021 22:45	41
07/08/2021 23:45	40
08/08/2021 00:45	54
08/08/2021 01:45	34
08/08/2021 02:45	58
08/08/2021 03:45	38
08/08/2021 04:45	44
08/08/2021 05:45	32
08/08/2021 06:45	52
Average	46
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
13/08/2021 07:47	41
13/08/2021 08:47	38
13/08/2021 09:47	50
13/08/2021 10:47	43
13/08/2021 11:47	58
13/08/2021 12:47	55
13/08/2021 13:47	38
13/08/2021 14:47	63
13/08/2021 15:47	40
13/08/2021 16:47	55
13/08/2021 17:47	61
13/08/2021 18:47	46
13/08/2021 19:47	38
13/08/2021 20:47	44
13/08/2021 21:47	49
13/08/2021 22:47	54
13/08/2021 23:47	55
14/08/2021 00:47	38
14/08/2021 01:47	44
14/08/2021 02:47	49
14/08/2021 03:47	61
14/08/2021 04:47	49
14/08/2021 05:47	46
14/08/2021 06:47	50
Average	49
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
19/08/2021 07:39	40
19/08/2021 08:39	60
19/08/2021 09:39	57
19/08/2021 10:39	46
19/08/2021 11:39	61
19/08/2021 12:39	61
19/08/2021 13:39	38
19/08/2021 14:39	49
19/08/2021 15:39	35
19/08/2021 16:39	55
19/08/2021 17:39	37
19/08/2021 18:39	57
19/08/2021 19:39	34
19/08/2021 20:39	35
19/08/2021 21:39	47
19/08/2021 22:39	34
19/08/2021 23:39	35
20/08/2021 00:39	35
20/08/2021 01:39	46
20/08/2021 02:39	44
20/08/2021 03:39	44
20/08/2021 04:39	52
20/08/2021 05:39	54
20/08/2021 06:39	52
Average	46
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
25/08/2021 07:44	41
25/08/2021 08:44	58
25/08/2021 09:44	66
25/08/2021 10:44	67
25/08/2021 11:44	44
25/08/2021 12:44	55
25/08/2021 13:44	46
25/08/2021 14:44	50
25/08/2021 15:44	43
25/08/2021 16:44	60
25/08/2021 17:44	55
25/08/2021 18:44	40
25/08/2021 19:44	63
25/08/2021 20:44	46
25/08/2021 21:44	58
25/08/2021 22:44	41
25/08/2021 23:44	40
26/08/2021 00:44	54
26/08/2021 01:44	40
26/08/2021 02:44	54
26/08/2021 03:44	66
26/08/2021 04:44	52
26/08/2021 05:44	52
26/08/2021 06:44	55
Average	52
Action Level	168
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
31/08/2021 07:56	35
31/08/2021 08:56	32
31/08/2021 09:56	32
31/08/2021 10:56	46
31/08/2021 11:56	43
31/08/2021 12:56	35
31/08/2021 13:56	49
31/08/2021 14:56	37
31/08/2021 15:56	43
31/08/2021 16:56	44
31/08/2021 17:56	49
31/08/2021 18:56	31
31/08/2021 19:56	49
31/08/2021 20:56	35
31/08/2021 21:56	49
31/08/2021 22:56	35
31/08/2021 23:56	32
01/09/2021 00:56	40
01/09/2021 01:56	31
01/09/2021 02:56	44
01/09/2021 03:56	46
01/09/2021 04:56	43
01/09/2021 05:56	44
01/09/2021 06:56	32
Average	40
Action Level	168
Limit Level	260

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

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

AMS14 - Ha Wo Che

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
06/05/2021 07:46	93
06/05/2021 08:46	67
06/05/2021 09:46	78
06/05/2021 10:46	70
06/05/2021 11:46	83
06/05/2021 12:46	83
06/05/2021 13:46	88
06/05/2021 14:46	91
06/05/2021 15:46	88
06/05/2021 16:46	91
06/05/2021 17:46	94
06/05/2021 18:46	75
06/05/2021 19:46	65
06/05/2021 20:46	91
06/05/2021 21:46	96
06/05/2021 22:46	69
06/05/2021 23:46	91
07/05/2021 00:46	93
07/05/2021 01:46	81
07/05/2021 02:46	70
07/05/2021 03:46	75
07/05/2021 04:46	91
07/05/2021 05:46	72
07/05/2021 06:46	89
Average	83
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
12/05/2021 07:43	54
12/05/2021 08:43	82
12/05/2021 09:43	57
12/05/2021 10:43	73
12/05/2021 11:43	76
12/05/2021 12:43	82
12/05/2021 13:43	70
12/05/2021 14:43	84
12/05/2021 15:43	77
12/05/2021 16:43	76
12/05/2021 17:43	65
12/05/2021 18:43	64
12/05/2021 19:43	62
12/05/2021 20:43	56
12/05/2021 21:43	68
12/05/2021 22:43	65
12/05/2021 23:43	87
13/05/2021 00:43	71
13/05/2021 01:43	59
13/05/2021 02:43	81
13/05/2021 03:43	81
13/05/2021 04:43	54
13/05/2021 05:43	54
13/05/2021 06:43	84
Average	70
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
18/05/2021 07:58	33
18/05/2021 08:58	32
18/05/2021 09:58	47
18/05/2021 10:58	32
18/05/2021 11:58	54
18/05/2021 12:58	41
18/05/2021 13:58	33
18/05/2021 14:58	50
18/05/2021 15:58	33
18/05/2021 16:58	41
18/05/2021 17:58	47
18/05/2021 18:58	48
18/05/2021 19:58	26
18/05/2021 20:58	25
18/05/2021 21:58	33
18/05/2021 22:58	38
18/05/2021 23:58	50
19/05/2021 00:58	33
19/05/2021 01:58	52
19/05/2021 02:58	28
19/05/2021 03:58	25
19/05/2021 04:58	28
19/05/2021 05:58	52
19/05/2021 06:58	50
Average	39
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
24/05/2021 08:02	57
24/05/2021 09:02	48
24/05/2021 10:02	51
24/05/2021 11:02	47
24/05/2021 12:02	38
24/05/2021 13:02	55
24/05/2021 14:02	39
24/05/2021 15:02	60
24/05/2021 16:02	54
24/05/2021 17:02	51
24/05/2021 18:02	38
24/05/2021 19:02	39
24/05/2021 20:02	36
24/05/2021 21:02	42
24/05/2021 22:02	38
24/05/2021 23:02	42
25/05/2021 00:02	58
25/05/2021 01:02	51
25/05/2021 02:02	45
25/05/2021 03:02	60
25/05/2021 04:02	48
25/05/2021 05:02	33
25/05/2021 06:02	51
25/05/2021 07:02	55
Average	47
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
29/05/2021 09:18	34
29/05/2021 10:18	31
29/05/2021 11:18	40
29/05/2021 12:18	38
29/05/2021 13:18	44
29/05/2021 14:18	47
29/05/2021 15:18	52
29/05/2021 16:18	55
29/05/2021 17:18	40
29/05/2021 18:18	43
29/05/2021 19:18	48
29/05/2021 20:18	52
29/05/2021 21:18	46
29/05/2021 22:18	44
29/05/2021 23:18	40
30/05/2021 00:18	43
30/05/2021 01:18	49
30/05/2021 02:18	52
30/05/2021 03:18	55
30/05/2021 04:18	46
30/05/2021 05:18	43
30/05/2021 06:18	44
30/05/2021 07:18	40
30/05/2021 08:18	40
Average	44
Action Level	174
Limit Level	260

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

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

AMS14 - Ha Wo Che

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
04/06/2021 07:46	43
04/06/2021 08:46	43
04/06/2021 09:46	60
04/06/2021 10:46	59
04/06/2021 11:46	59
04/06/2021 12:46	57
04/06/2021 13:46	37
04/06/2021 14:46	33
04/06/2021 15:46	46
04/06/2021 16:46	42
04/06/2021 17:46	60
04/06/2021 18:46	45
04/06/2021 19:46	54
04/06/2021 20:46	37
04/06/2021 21:46	31
04/06/2021 22:46	59
04/06/2021 23:46	53
05/06/2021 00:46	34
05/06/2021 01:46	45
05/06/2021 02:46	53
05/06/2021 03:46	40
05/06/2021 04:46	42
05/06/2021 05:46	40
05/06/2021 06:46	37
Average	46
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
10/06/2021 09:17	49
10/06/2021 10:17	54
10/06/2021 11:17	58
10/06/2021 12:17	63
10/06/2021 13:17	61
10/06/2021 14:17	67
10/06/2021 15:17	72
10/06/2021 16:17	70
10/06/2021 17:17	61
10/06/2021 18:17	58
10/06/2021 19:17	64
10/06/2021 20:17	55
10/06/2021 21:17	51
10/06/2021 22:17	47
10/06/2021 23:17	43
11/06/2021 00:17	40
11/06/2021 01:17	44
11/06/2021 02:17	51
11/06/2021 03:17	47
11/06/2021 04:17	43
11/06/2021 05:17	40
11/06/2021 06:17	38
11/06/2021 07:17	43
11/06/2021 08:17	44
Average	53
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
16/06/2021 07:42	40
16/06/2021 08:42	56
16/06/2021 09:42	40
16/06/2021 10:42	59
16/06/2021 11:42	57
16/06/2021 12:42	56
16/06/2021 13:42	48
16/06/2021 14:42	53
16/06/2021 15:42	57
16/06/2021 16:42	43
16/06/2021 17:42	62
16/06/2021 18:42	39
16/06/2021 19:42	67
16/06/2021 20:42	43
16/06/2021 21:42	67
16/06/2021 22:42	48
16/06/2021 23:42	40
17/06/2021 00:42	37
17/06/2021 01:42	54
17/06/2021 02:42	39
17/06/2021 03:42	50
17/06/2021 04:42	50
17/06/2021 05:42	39
17/06/2021 06:42	48
Average	50
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
22/06/2021 07:29	57
22/06/2021 08:29	46
22/06/2021 09:29	33
22/06/2021 10:29	36
22/06/2021 11:29	57
22/06/2021 12:29	46
22/06/2021 13:29	37
22/06/2021 14:29	57
22/06/2021 15:29	59
22/06/2021 16:29	37
22/06/2021 17:29	43
22/06/2021 18:29	36
22/06/2021 19:29	31
22/06/2021 20:29	42
22/06/2021 21:29	40
22/06/2021 22:29	46
22/06/2021 23:29	51
23/06/2021 00:29	33
23/06/2021 01:29	39
23/06/2021 02:29	34
23/06/2021 03:29	53
23/06/2021 04:29	56
23/06/2021 05:29	45
23/06/2021 06:29	42
Average	44
Action Level	174
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
28/06/2021 13:11	33
28/06/2021 14:11	27
28/06/2021 15:11	28
28/06/2021 16:11	34
28/06/2021 17:11	33
28/06/2021 18:11	37
28/06/2021 19:11	34
28/06/2021 20:11	27
28/06/2021 21:11	24
28/06/2021 22:11	33
28/06/2021 23:11	39
29/06/2021 00:11	37
29/06/2021 01:11	33
29/06/2021 02:11	36
29/06/2021 03:11	40
29/06/2021 04:11	34
29/06/2021 05:11	30
29/06/2021 06:11	27
29/06/2021 07:11	24
29/06/2021 08:11	28
29/06/2021 09:11	33
29/06/2021 10:11	36
29/06/2021 11:11	39
29/06/2021 12:11	34
Average	32
Action Level	174
Limit Level	260

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

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

AMS14 - Ha Wo Che

Date and Time	TSP Concentration (µg/m³)
03/07/2021 09:11	34
03/07/2021 10:11	40
03/07/2021 11:11	37
03/07/2021 12:11	35
03/07/2021 13:11	40
03/07/2021 14:11	44
03/07/2021 15:11	49
03/07/2021 16:11	67
03/07/2021 17:11	70
03/07/2021 18:11	72
03/07/2021 19:11	64
03/07/2021 20:11	52
03/07/2021 21:11	54
03/07/2021 22:11	60
03/07/2021 23:11	63
04/07/2021 00:11	51
04/07/2021 01:11	58
04/07/2021 02:11	54
04/07/2021 03:11	32
04/07/2021 04:11	47
04/07/2021 05:11	47
04/07/2021 06:11	40
04/07/2021 07:11	44
04/07/2021 08:11	49
Average	50
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
09/07/2021 07:51	59
09/07/2021 08:51	62
09/07/2021 09:51	67
09/07/2021 10:51	59
09/07/2021 11:51	54
09/07/2021 12:51	60
09/07/2021 13:51	64
09/07/2021 14:51	64
09/07/2021 15:51	67
09/07/2021 16:51	70
09/07/2021 17:51	57
09/07/2021 18:51	64
09/07/2021 19:51	54
09/07/2021 20:51	68
09/07/2021 21:51	62
09/07/2021 22:51	70
09/07/2021 23:51	60
10/07/2021 00:51	57
10/07/2021 01:51	62
10/07/2021 02:51	68
10/07/2021 03:51	59
10/07/2021 04:51	65
10/07/2021 05:51	62
10/07/2021 06:51	59
Average	62
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
15/07/2021 07:44	60
15/07/2021 08:44	51
15/07/2021 09:44	60
15/07/2021 10:44	48
15/07/2021 11:44	54
15/07/2021 12:44	54
15/07/2021 13:44	53
15/07/2021 14:44	56
15/07/2021 15:44	46
15/07/2021 16:44	43
15/07/2021 17:44	46
15/07/2021 18:44	53
15/07/2021 19:44	42
15/07/2021 20:44	40
15/07/2021 21:44	50
15/07/2021 22:44	51
15/07/2021 23:44	43
16/07/2021 00:44	48
16/07/2021 01:44	43
16/07/2021 02:44	60
16/07/2021 03:44	57
16/07/2021 04:44	50
16/07/2021 05:44	54
16/07/2021 06:44	50
Average	51
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
21/07/2021 08:43	53
21/07/2021 09:43	47
21/07/2021 10:43	56
21/07/2021 11:43	59
21/07/2021 12:43	67
21/07/2021 13:43	65
21/07/2021 14:43	71
21/07/2021 15:43	56
21/07/2021 16:43	52
21/07/2021 17:43	46
21/07/2021 18:43	50
21/07/2021 19:43	53
21/07/2021 20:43	43
21/07/2021 21:43	58
21/07/2021 22:43	61
21/07/2021 23:43	63
22/07/2021 00:43	73
22/07/2021 01:43	64
22/07/2021 02:43	61
22/07/2021 03:43	50
22/07/2021 04:43	52
22/07/2021 05:43	55
22/07/2021 06:43	47
22/07/2021 07:43	46
Average	56
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
27/07/2021 07:42	60
27/07/2021 08:42	60
27/07/2021 09:42	70
27/07/2021 10:42	70
27/07/2021 11:42	67
27/07/2021 12:42	67
27/07/2021 13:42	60
27/07/2021 14:42	60
27/07/2021 15:42	67
27/07/2021 16:42	70
27/07/2021 17:42	67
27/07/2021 18:42	67
27/07/2021 19:42	68
27/07/2021 20:42	70
27/07/2021 21:42	65
27/07/2021 22:42	56
27/07/2021 23:42	59
28/07/2021 00:42	65
28/07/2021 01:42	70
28/07/2021 02:42	65
28/07/2021 03:42	68
28/07/2021 04:42	56
28/07/2021 05:42	67
28/07/2021 06:42	56
Average	64
Action Level	174
Limit Level	260

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

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

AMS 17 - Wo Che Estate

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
06/05/2021 08:03	87
06/05/2021 09:03	85
06/05/2021 10:03	74
06/05/2021 11:03	84
06/05/2021 12:03	87
06/05/2021 13:03	87
06/05/2021 14:03	91
06/05/2021 15:03	90
06/05/2021 16:03	65
06/05/2021 17:03	79
06/05/2021 18:03	71
06/05/2021 19:03	74
06/05/2021 20:03	84
06/05/2021 21:03	90
06/05/2021 22:03	82
06/05/2021 23:03	90
07/05/2021 00:03	84
07/05/2021 01:03	88
07/05/2021 02:03	85
07/05/2021 03:03	68
07/05/2021 04:03	87
07/05/2021 05:03	76
07/05/2021 06:03	90
07/05/2021 07:03	87
Average	83
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
12/05/2021 07:26	67
12/05/2021 08:26	94
12/05/2021 09:26	64
12/05/2021 10:26	67
12/05/2021 11:26	78
12/05/2021 12:26	67
12/05/2021 13:26	77
12/05/2021 14:26	91
12/05/2021 15:26	85
12/05/2021 16:26	91
12/05/2021 17:26	94
12/05/2021 18:26	94
12/05/2021 19:26	62
12/05/2021 20:26	57
12/05/2021 21:26	54
12/05/2021 22:26	89
12/05/2021 23:26	93
13/05/2021 00:26	94
13/05/2021 01:26	62
13/05/2021 02:26	73
13/05/2021 03:26	86
13/05/2021 04:26	86
13/05/2021 05:26	65
13/05/2021 06:26	57
Average	77
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
18/05/2021 08:10	48
18/05/2021 09:10	36
18/05/2021 10:10	48
18/05/2021 11:10	33
18/05/2021 12:10	30
18/05/2021 13:10	27
18/05/2021 14:10	39
18/05/2021 15:10	47
18/05/2021 16:10	29
18/05/2021 17:10	35
18/05/2021 18:10	32
18/05/2021 19:10	48
18/05/2021 20:10	32
18/05/2021 21:10	44
18/05/2021 22:10	30
18/05/2021 23:10	33
19/05/2021 00:10	32
19/05/2021 01:10	41
19/05/2021 02:10	35
19/05/2021 03:10	42
19/05/2021 04:10	36
19/05/2021 05:10	30
19/05/2021 06:10	33
19/05/2021 07:10	35
Average	37
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
24/05/2021 08:16	39
24/05/2021 09:16	32
24/05/2021 10:16	30
24/05/2021 11:16	35
24/05/2021 12:16	53
24/05/2021 13:16	64
24/05/2021 14:16	44
24/05/2021 15:16	48
24/05/2021 16:16	52
24/05/2021 17:16	38
24/05/2021 18:16	47
24/05/2021 19:16	68
24/05/2021 20:16	42
24/05/2021 21:16	44
24/05/2021 22:16	52
24/05/2021 23:16	62
25/05/2021 00:16	50
25/05/2021 01:16	48
25/05/2021 02:16	52
25/05/2021 03:16	50
25/05/2021 04:16	36
25/05/2021 05:16	38
25/05/2021 06:16	58
25/05/2021 07:16	52
Average	47
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
29/05/2021 09:38	44
29/05/2021 10:38	49
29/05/2021 11:38	48
29/05/2021 12:38	68
29/05/2021 13:38	68
29/05/2021 14:38	67
29/05/2021 15:38	46
29/05/2021 16:38	42
29/05/2021 17:38	53
29/05/2021 18:38	55
29/05/2021 19:38	57
29/05/2021 20:38	49
29/05/2021 21:38	61
29/05/2021 22:38	61
29/05/2021 23:38	55
30/05/2021 00:38	61
30/05/2021 01:38	57
30/05/2021 02:38	59
30/05/2021 03:38	48
30/05/2021 04:38	53
30/05/2021 05:38	55
30/05/2021 06:38	49
30/05/2021 07:38	51
30/05/2021 08:38	57
Average	55
Action Level	171
Limit Level	260

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

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

AMS 17 - Wo Che Estate

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
04/06/2021 07:59	53
04/06/2021 08:59	57
04/06/2021 09:59	59
04/06/2021 10:59	51
04/06/2021 11:59	30
04/06/2021 12:59	34
04/06/2021 13:59	53
04/06/2021 14:59	37
04/06/2021 15:59	38
04/06/2021 16:59	48
04/06/2021 17:59	53
04/06/2021 18:59	48
04/06/2021 19:59	32
04/06/2021 20:59	42
04/06/2021 21:59	48
04/06/2021 22:59	53
04/06/2021 23:59	38
05/06/2021 00:59	53
05/06/2021 01:59	59
05/06/2021 02:59	34
05/06/2021 03:59	38
05/06/2021 04:59	57
05/06/2021 05:59	54
05/06/2021 06:59	50
Average	47
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
10/06/2021 09:26	44
10/06/2021 10:26	46
10/06/2021 11:26	49
10/06/2021 12:26	65
10/06/2021 13:26	74
10/06/2021 14:26	68
10/06/2021 15:26	42
10/06/2021 16:26	38
10/06/2021 17:26	49
10/06/2021 18:26	46
10/06/2021 19:26	55
10/06/2021 20:26	59
10/06/2021 21:26	51
10/06/2021 22:26	48
10/06/2021 23:26	46
11/06/2021 00:26	67
11/06/2021 01:26	67
11/06/2021 02:26	72
11/06/2021 03:26	55
11/06/2021 04:26	51
11/06/2021 05:26	49
11/06/2021 06:26	61
11/06/2021 07:26	67
11/06/2021 08:26	65
Average	55
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
16/06/2021 07:28	29
16/06/2021 08:28	57
16/06/2021 09:28	50
16/06/2021 10:28	51
16/06/2021 11:28	54
16/06/2021 12:28	29
16/06/2021 13:28	46
16/06/2021 14:28	30
16/06/2021 15:28	53
16/06/2021 16:28	37
16/06/2021 17:28	42
16/06/2021 18:28	38
16/06/2021 19:28	59
16/06/2021 20:28	34
16/06/2021 21:28	30
16/06/2021 22:28	56
16/06/2021 23:28	35
17/06/2021 00:28	34
17/06/2021 01:28	29
17/06/2021 02:28	40
17/06/2021 03:28	40
17/06/2021 04:28	56
17/06/2021 05:28	50
17/06/2021 06:28	46
Average	43
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
22/06/2021 07:15	40
22/06/2021 08:15	40
22/06/2021 09:15	54
22/06/2021 10:15	34
22/06/2021 11:15	43
22/06/2021 12:15	56
22/06/2021 13:15	30
22/06/2021 14:15	45
22/06/2021 15:15	48
22/06/2021 16:15	42
22/06/2021 17:15	30
22/06/2021 18:15	30
22/06/2021 19:15	51
22/06/2021 20:15	46
22/06/2021 21:15	34
22/06/2021 22:15	40
22/06/2021 23:15	45
23/06/2021 00:15	30
23/06/2021 01:15	48
23/06/2021 02:15	37
23/06/2021 03:15	27
23/06/2021 04:15	35
23/06/2021 05:15	56
23/06/2021 06:15	29
Average	40
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
28/06/2021 13:19	24
28/06/2021 14:19	28
28/06/2021 15:19	43
28/06/2021 16:19	44
28/06/2021 17:19	43
28/06/2021 18:19	40
28/06/2021 19:19	35
28/06/2021 20:19	35
28/06/2021 21:19	32
28/06/2021 22:19	38
28/06/2021 23:19	32
29/06/2021 00:19	36
29/06/2021 01:19	38
29/06/2021 02:19	41
29/06/2021 03:19	35
29/06/2021 04:19	32
29/06/2021 05:19	41
29/06/2021 06:19	43
29/06/2021 07:19	38
29/06/2021 08:19	27
29/06/2021 09:19	35
29/06/2021 10:19	33
29/06/2021 11:19	38
29/06/2021 12:19	40
Average	36
Action Level	171
Limit Level	260

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

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

AMS 17 - Wo Che Estate

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
03/07/2021 09:42	34
03/07/2021 10:42	36
03/07/2021 11:42	42
03/07/2021 12:42	48
03/07/2021 13:42	46
03/07/2021 14:42	55
03/07/2021 15:42	46
03/07/2021 16:42	59
03/07/2021 17:42	65
03/07/2021 18:42	67
03/07/2021 19:42	74
03/07/2021 20:42	80
03/07/2021 21:42	65
03/07/2021 22:42	67
03/07/2021 23:42	55
04/07/2021 00:42	49
04/07/2021 01:42	42
04/07/2021 02:42	40
04/07/2021 03:42	49
04/07/2021 04:42	55
04/07/2021 05:42	53
04/07/2021 06:42	48
04/07/2021 07:42	46
04/07/2021 08:42	55
Average	53
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
09/07/2021 07:40	69
09/07/2021 08:40	73
09/07/2021 09:40	62
09/07/2021 10:40	65
09/07/2021 11:40	54
09/07/2021 12:40	53
09/07/2021 13:40	70
09/07/2021 14:40	77
09/07/2021 15:40	75
09/07/2021 16:40	72
09/07/2021 17:40	57
09/07/2021 18:40	69
09/07/2021 19:40	62
09/07/2021 20:40	70
09/07/2021 21:40	64
09/07/2021 22:40	77
09/07/2021 23:40	75
10/07/2021 00:40	61
10/07/2021 01:40	59
10/07/2021 02:40	61
10/07/2021 03:40	59
10/07/2021 04:40	54
10/07/2021 05:40	70
10/07/2021 06:40	73
Average	66
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
15/07/2021 07:36	43
15/07/2021 08:36	50
15/07/2021 09:36	38
15/07/2021 10:36	57
15/07/2021 11:36	38
15/07/2021 12:36	43
15/07/2021 13:36	57
15/07/2021 14:36	54
15/07/2021 15:36	45
15/07/2021 16:36	45
15/07/2021 17:36	42
15/07/2021 18:36	48
15/07/2021 19:36	43
15/07/2021 20:36	46
15/07/2021 21:36	38
15/07/2021 22:36	54
15/07/2021 23:36	48
16/07/2021 00:36	48
16/07/2021 01:36	51
16/07/2021 02:36	43
16/07/2021 03:36	50
16/07/2021 04:36	51
16/07/2021 05:36	50
16/07/2021 06:36	50
Average	47
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
21/07/2021 09:47	53
21/07/2021 10:47	51
21/07/2021 11:47	73
21/07/2021 12:47	65
21/07/2021 13:47	67
21/07/2021 14:47	49
21/07/2021 15:47	44
21/07/2021 16:47	42
21/07/2021 17:47	49
21/07/2021 18:47	63
21/07/2021 19:47	67
21/07/2021 20:47	68
21/07/2021 21:47	61
21/07/2021 22:47	59
21/07/2021 23:47	72
22/07/2021 00:47	65
22/07/2021 01:47	65
22/07/2021 02:47	68
22/07/2021 03:47	59
22/07/2021 04:47	55
22/07/2021 05:47	63
22/07/2021 06:47	67
22/07/2021 07:47	65
22/07/2021 08:47	51
Average	60
Action Level	171
Limit Level	260

Date and Time	TSP Concentration ($\mu\text{g}/\text{m}^3$)
27/07/2021 07:56	51
27/07/2021 08:56	65
27/07/2021 09:56	57
27/07/2021 10:56	65
27/07/2021 11:56	56
27/07/2021 12:56	50
27/07/2021 13:56	67
27/07/2021 14:56	50
27/07/2021 15:56	57
27/07/2021 16:56	56
27/07/2021 17:56	62
27/07/2021 18:56	50
27/07/2021 19:56	51
27/07/2021 20:56	53
27/07/2021 21:56	51
27/07/2021 22:56	61
27/07/2021 23:56	59
28/07/2021 00:56	62
28/07/2021 01:56	64
28/07/2021 02:56	65
28/07/2021 03:56	65
28/07/2021 04:56	50
28/07/2021 05:56	65
28/07/2021 06:56	65
Average	58
Action Level	171
Limit Level	260

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

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

AMS 17 - Wo Che Estate

Date and Time	TSP Concentration (µg/m³)
02/08/2021 08:06	67
02/08/2021 09:06	50
02/08/2021 10:06	52
02/08/2021 11:06	50
02/08/2021 12:06	74
02/08/2021 13:06	72
02/08/2021 14:06	69
02/08/2021 15:06	79
02/08/2021 16:06	69
02/08/2021 17:06	67
02/08/2021 18:06	82
02/08/2021 19:06	64
02/08/2021 20:06	62
02/08/2021 21:06	64
02/08/2021 22:06	79
02/08/2021 23:06	69
03/08/2021 00:06	64
03/08/2021 01:06	64
03/08/2021 02:06	59
03/08/2021 03:06	74
03/08/2021 04:06	59
03/08/2021 05:06	62
03/08/2021 06:06	52
03/08/2021 07:06	57
Average	65
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
07/08/2021 07:58	69
07/08/2021 08:58	62
07/08/2021 09:58	50
07/08/2021 10:58	45
07/08/2021 11:58	77
07/08/2021 12:58	72
07/08/2021 13:58	74
07/08/2021 14:58	77
07/08/2021 15:58	77
07/08/2021 16:58	59
07/08/2021 17:58	62
07/08/2021 18:58	40
07/08/2021 19:58	67
07/08/2021 20:58	59
07/08/2021 21:58	67
07/08/2021 22:58	77
07/08/2021 23:58	50
08/08/2021 00:58	57
08/08/2021 01:58	69
08/08/2021 02:58	72
08/08/2021 03:58	64
08/08/2021 04:58	52
08/08/2021 05:58	72
08/08/2021 06:58	64
Average	64
Action Level	171
Limit Level	260

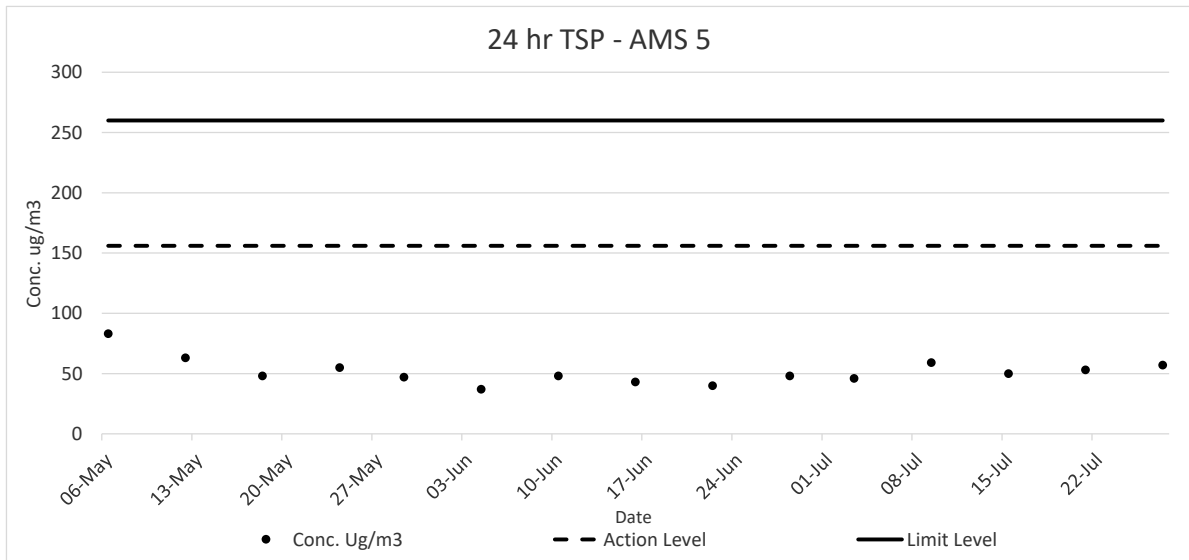
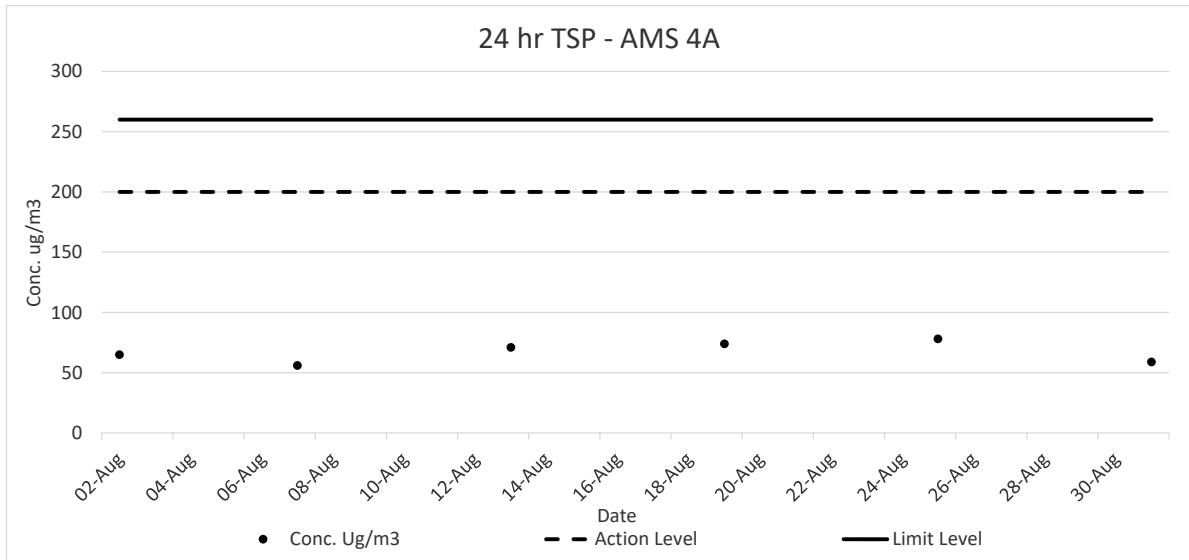
Date and Time	TSP Concentration (µg/m³)
13/08/2021 08:05	52
13/08/2021 09:05	52
13/08/2021 10:05	69
13/08/2021 11:05	77
13/08/2021 12:05	50
13/08/2021 13:05	87
13/08/2021 14:05	77
13/08/2021 15:05	67
13/08/2021 16:05	57
13/08/2021 17:05	57
13/08/2021 18:05	64
13/08/2021 19:05	69
13/08/2021 20:05	69
13/08/2021 21:05	79
13/08/2021 22:05	64
13/08/2021 23:05	77
14/08/2021 00:05	87
14/08/2021 01:05	55
14/08/2021 02:05	59
14/08/2021 03:05	64
14/08/2021 04:05	67
14/08/2021 05:05	84
14/08/2021 06:05	74
14/08/2021 07:05	47
Average	67
Action Level	171
Limit Level	260

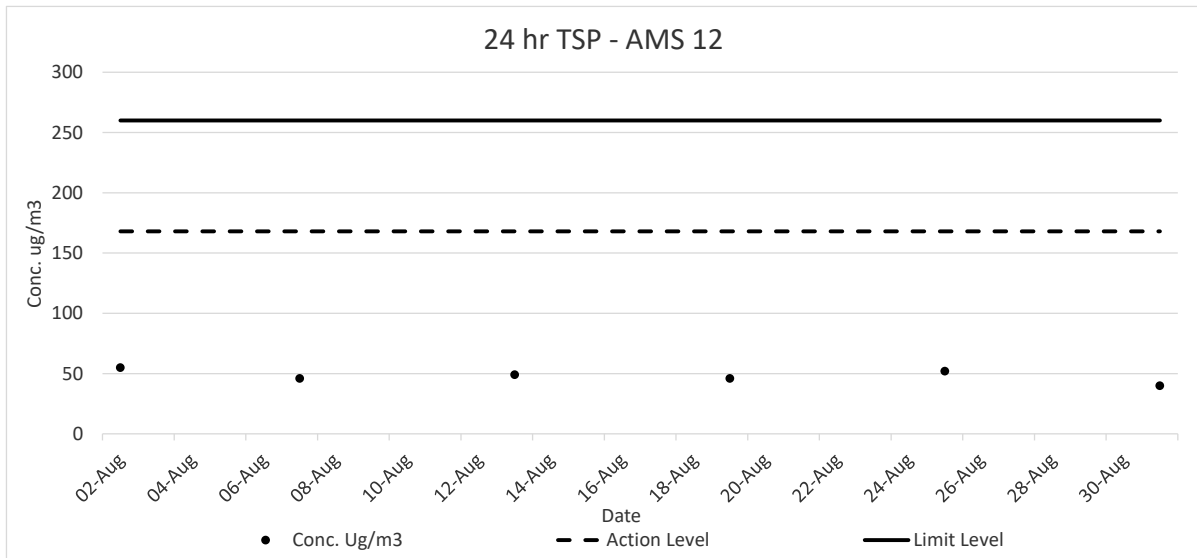
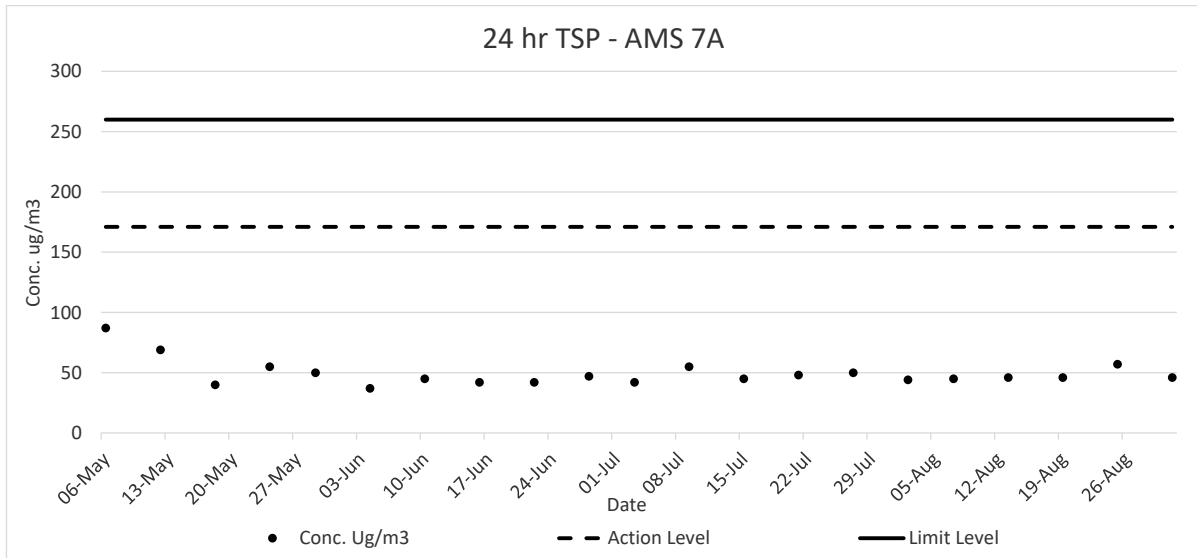
Date and Time	TSP Concentration (µg/m³)
19/08/2021 07:58	67
19/08/2021 08:58	59
19/08/2021 09:58	69
19/08/2021 10:58	42
19/08/2021 11:58	45
19/08/2021 12:58	55
19/08/2021 13:58	50
19/08/2021 14:58	74
19/08/2021 15:58	72
19/08/2021 16:58	52
19/08/2021 17:58	72
19/08/2021 18:58	67
19/08/2021 19:58	59
19/08/2021 20:58	50
19/08/2021 21:58	77
19/08/2021 22:58	42
19/08/2021 23:58	47
20/08/2021 00:58	55
20/08/2021 01:58	52
20/08/2021 02:58	77
20/08/2021 03:58	69
20/08/2021 04:58	42
20/08/2021 05:58	42
20/08/2021 06:58	72
Average	59
Action Level	171
Limit Level	260

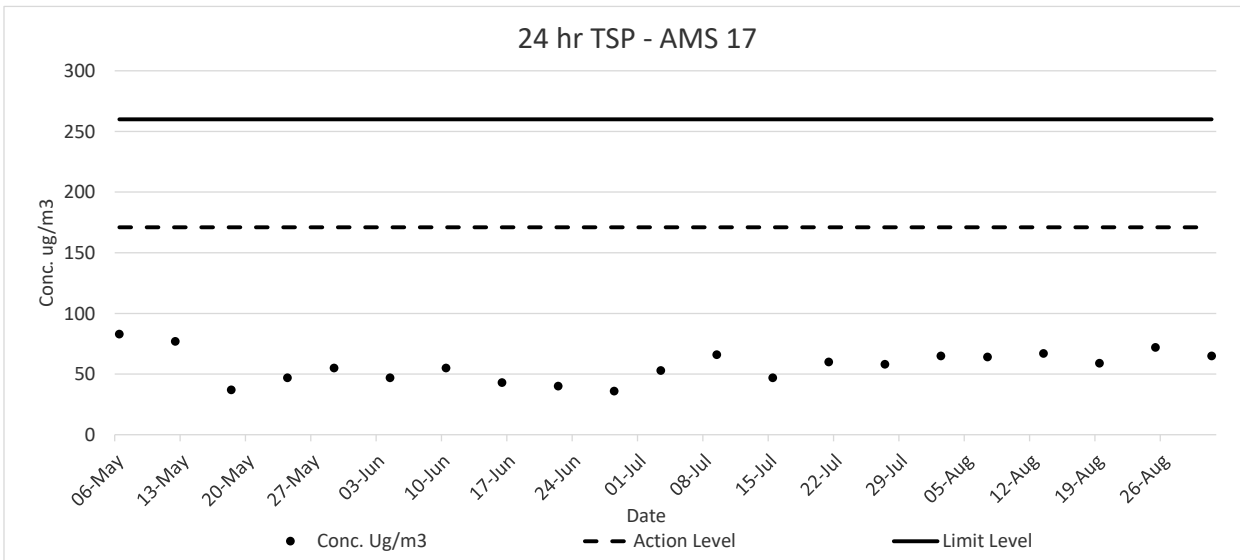
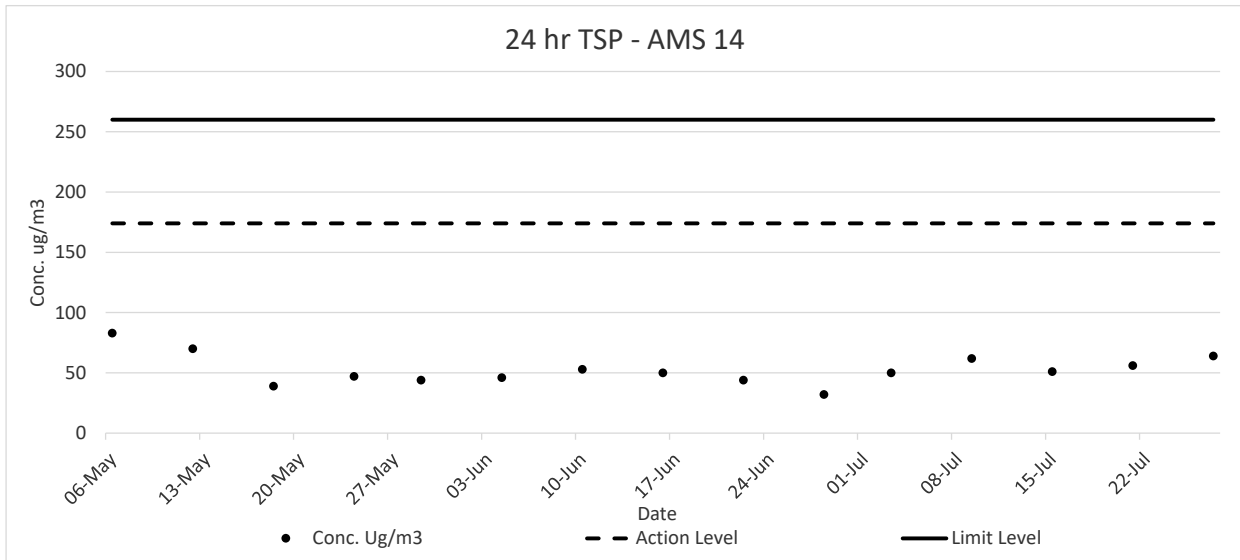
Date and Time	TSP Concentration (µg/m³)
25/08/2021 08:03	72
25/08/2021 09:03	64
25/08/2021 10:03	89
25/08/2021 11:03	55
25/08/2021 12:03	59
25/08/2021 13:03	97
25/08/2021 14:03	79
25/08/2021 15:03	74
25/08/2021 16:03	57
25/08/2021 17:03	72
25/08/2021 18:03	52
25/08/2021 19:03	69
25/08/2021 20:03	74
25/08/2021 21:03	59
25/08/2021 22:03	94
25/08/2021 23:03	72
26/08/2021 00:03	64
26/08/2021 01:03	64
26/08/2021 02:03	97
26/08/2021 03:03	74
26/08/2021 04:03	67
26/08/2021 05:03	74
26/08/2021 06:03	69
26/08/2021 07:03	69
Average	72
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (µg/m³)
31/08/2021 08:10	42
31/08/2021 09:10	87
31/08/2021 10:10	64
31/08/2021 11:10	69
31/08/2021 12:10	47
31/08/2021 13:10	62
31/08/2021 14:10	59
31/08/2021 15:10	57
31/08/2021 16:10	79
31/08/2021 17:10	55
31/08/2021 18:10	77
31/08/2021 19:10	57
31/08/2021 20:10	67
31/08/2021 21:10	72
31/08/2021 22:10	59
31/08/2021 23:10	69
01/09/2021 00:10	84
01/09/2021 01:10	64
01/09/2021 02:10	47
01/09/2021 03:10	62
01/09/2021 04:10	67
01/09/2021 05:10	74
01/09/2021 06:10	59
01/09/2021 07:10	79
Average	65
Action Level	171
Limit Level	260

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







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

NMS 1 Scenery Court

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	09:09	62.7	60.5	64.0	75	62.7	Fine	0.4
12-May-21	15:59	66.3	63.0	67.0		66.3	Fine	0.3
18-May-21	16:22	67.1	66.0	68.5		67.1	Sunny	0.3
24-May-21	09:12	62.8	60.5	63.5		62.8	Fine	0.8
04-Jun-21	09:06	64.2	63.5	65.5		64.2	Fine	0.4
10-Jun-21	09:10	64.1	61.5	65.5		64.1	Fine	1.1
16-Jun-21	15:30	66.1	63.0	68.0		66.1	Sunny	0.3
22-Jun-21	13:46	67.0	64.5	68.5		67.0	Fine	1.0
28-Jun-21	14:37	67.2	64.0	69.0		67.2	Overcast	0.7
09-Jul-21	08:46	67.3	63.5	69.0		67.3	Fine	0.6
15-Jul-21	11:28	66.4	63.5	68.0		66.4	Fine	0.8
21-Jul-21	08:46	64.6	61.5	66.0		64.6	Fine	0.6
27-Jul-21	08:19	66.1	63.0	67.5		66.1	Fine	0.6
02-Aug-21	11:40	68.4	64.5	70.0		68.4	Sunny	0.3
13-Aug-21	11:32	67.3	63.0	68.5		67.3	Fine	0.3
19-Aug-21	13:55	66.0	63.5	69.5		66.0	Fine	0.4
25-Aug-21	13:06	66.8	63.5	68.5		66.8	Sunny	0.5
31-Aug-21	13:48	65.9	61.0	68.5		65.9	Overcast	0.3

NMS 2 Villa Le Parc

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	08:30	54.1	52.0	55.0	75	54.1	Fine	0.9
12-May-21	16:39	53.6	51.0	54.0		53.6	Fine	0.7
18-May-21	15:36	53.8	52.5	54.5		53.8	Sunny	0.6
24-May-21	10:55	55.4	51.0	56.0		55.4	Fine	0.6
04-Jun-21	08:20	52.6	51.0	53.5		52.6	Fine	0.9
10-Jun-21	09:47	56.6	52.5	57.5		56.6	Fine	0.4
16-Jun-21	08:33	55.9	53.5	56.5		55.9	Sunny	0.3
22-Jun-21	08:42	54.8	52.5	55.5		54.8	Fine	0.5
28-Jun-21	13:10	54.6	52.0	55.5		54.6	Overcast	1.5
09-Jul-21	08:30	54.2	52.5	55.5		54.2	Fine	0.7
15-Jul-21	08:36	55.3	53.5	56.0		55.3	Fine	1.3
21-Jul-21	08:48	52.3	50.5	53.5		52.3	Fine	0.7
27-Jul-21	10:58	54.5	52.5	56.0		54.5	Fine	1.3
02-Aug-21	08:39	54.6	52.0	55.0		54.6	Sunny	0.5
13-Aug-21	08:33	53.9	51.0	55.0		53.9	Fine	0.7
19-Aug-21	08:27	54.3	52.0	55.5		54.3	Fine	0.6
25-Aug-21	08:45	55.0	53.0	56.0		55.0	Sunny	0.2
31-Aug-21	08:54	54.0	51.5	55.0		54.0	Overcast	1.1

NMS 3 Hilton Plaza

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	09:46	68.6	64.0	70.0	75	68.6	Fine	0.8
12-May-21	15:21	66.8	64.0	68.0		66.8	Fine	0.3
18-May-21	08:47	65.8	64.0	67.5		65.8	Sunny	0.4
24-May-21	08:35	64.4	62.0	66.5		64.4	Fine	0.7
04-Jun-21	10:29	66.1	64.0	67.5		66.1	Fine	0.6
10-Jun-21	08:30	67.2	64.0	69.0		67.2	Fine	0.9
16-Jun-21	10:16	67.1	65.0	68.5		67.1	Sunny	0.7
22-Jun-21	10:32	66.4	64.5	68.0		66.4	Fine	0.8
28-Jun-21	15:12	65.3	62.0	66.5		65.3	Overcast	1.2
09-Jul-21	09:22	67.2	66.0	68.5		67.2	Fine	0.4
15-Jul-21	10:42	68.0	65.5	69.0		68.0	Fine	0.3
21-Jul-21	10:43	66.1	64.0	67.5		66.1	Fine	0.7
27-Jul-21	08:57	68.4	66.0	70.5		68.4	Fine	0.2
02-Aug-21	10:32	66.6	65.0	67.5		66.6	Sunny	0.8
13-Aug-21	10:25	68.2	64.0	69.0		68.2	Fine	1.1
19-Aug-21	14:38	68.1	64.5	69.0		68.1	Fine	1.2
25-Aug-21	10:38	68.4	65.5	70.5		68.4	Sunny	1
31-Aug-21	11:03	68.6	63.5	69.5		68.6	Overcast	0.8

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$\text{Corrected noise level (CNL)} = 10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right) \right]$$

NMS 4 Tin Liu

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	11:32	66.2	64.0	67.5	75	66.2	Fine	0.8
12-May-21	13:33	66.0	64.0	67.0		66.0	Fine	0.4
18-May-21	09:26	64.9	61.0	68.0		64.9	Sunny	0.6
24-May-21	11:36	64.5	62.0	66.0		64.5	Fine	0.4
04-Jun-21	11:03	64.7	61.0	67.0		64.7	Fine	0.5
10-Jun-21	10:22	66.2	64.0	67.0		66.2	Fine	0.4
16-Jun-21	09:08	64.4	61.5	66.0		64.4	Sunny	0.7
22-Jun-21	09:23	63.9	61.0	65.5		63.9	Fine	0.4
28-Jun-21	13:53	64.3	61.5	66.0		64.3	Overcast	1.0
09-Jul-21	09:09	66.0	63.5	68.5		66.0	Fine	0.4
15-Jul-21	09:14	64.8	59.5	66.0		64.8	Fine	0.6
21-Jul-21	11:31	64.6	62.0	65.0		64.6	Fine	0.8
27-Jul-21	11:34	64.6	62.0	66.5		64.6	Fine	0.4
02-Aug-21	09:17	64.7	62.5	66.0		64.7	Sunny	0.2
13-Aug-21	09:14	64.0	62.0	65.5		64.0	Fine	0.4
19-Aug-21	09:03	65.4	63.5	66.5		65.4	Fine	0.6
25-Aug-21	09:26	63.8	60.0	65.0		63.8	Sunny	0.7
31-Aug-21	09:46	67.1	62.5	68.0		67.1	Overcast	0.3

NMS 5A Wai Wah Centre

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	10:20	67.1	66.0	68.5	75	67.1	Fine	0.4
12-May-21	14:43	70.6	67.5	73.0		70.6	Fine	1.1
18-May-21	08:10	71.2	70.0	72.0		71.2	Sunny	0.4
24-May-21	09:47	69.6	66.5	72.0		69.6	Fine	0.6
04-Jun-21	09:45	69.6	68.0	70.5		69.6	Fine	0.6
10-Jun-21	08:35	69.6	67.5	72.5		69.6	Fine	1.2
16-Jun-21	10:48	70.5	68.0	72.0		70.5	Sunny	0.6
22-Jun-21	11:04	70.2	69.0	71.5		70.2	Fine	0.6
28-Jun-21	15:44	69.9	67.5	70.5		69.9	Overcast	0.5
09-Jul-21	09:55	70.9	68.5	72.0		70.9	Fine	0.4
15-Jul-21	10:08	70.0	67.0	71.0		70.0	Fine	0.4
21-Jul-21	10:06	71.8	68.5	74.0		71.8	Fine	0.6
27-Jul-21	09:34	70.9	69.0	72.0		70.9	Fine	0.5
02-Aug-21	11:05	69.5	67.0	70.5		69.5	Sunny	0.4
13-Aug-21	11:00	68.7	66.5	70.5		68.7	Fine	1
19-Aug-21	15:11	71.3	66.0	74.0		71.3	Fine	0.6
25-Aug-21	11:20	69.5	66.0	71.0		69.5	Sunny	1.2
31-Aug-21	11:37	70.6	67.5	71.5		70.6	Overcast	0.5

NMS 6A Wai Wah Centre

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	10:53	68.6	66.0	70.5	75	68.6*	Fine	0.5
12-May-21	14:09	68.6	66.5	71.0		68.6*	Sunny	1.4
18-May-21	13:48	72.5	70.0	73.5		72.5*	Fine	0.2
24-May-21	10:20	71.6	67.5	73.5		71.6*	Fine	0.8
04-Jun-21	09:22	70.8	68.5	71.5		70.8	Fine	0.5
10-Jun-21	09:09	71.6	68.5	73.5		71.6	Fine	0.6
16-Jun-21	11:21	71.4	69.0	72.5		71.4	Sunny	1.0
22-Jun-21	13:00	70.8	68.5	72.0		70.8	Fine	0.3
28-Jun-21	16:20	71.8	69.5	72.5		71.8	Overcast	0.8
09-Jul-21	10:37	71.0	69.5	71.5		71.0	Fine	0.7
15-Jul-21	09:30	70.6	68.5	71.0		70.6	Fine	0.6
21-Jul-21	09:32	72.7	70.5	74.5		72.7	Fine	0.7
27-Jul-21	10:15	71.2	68.5	72.0		71.2	Fine	1.1
02-Aug-21	13:03	70.8	68.0	72.5		70.8	Sunny	1
13-Aug-21	13:08	71.6	69.0	73.0		71.6	Fine	0.8
19-Aug-21	15:47	70.0	67.5	72.5		70.0	Fine	1.1
25-Aug-21	13:58	70.3	67.5	72.0		70.3	Sunny	0.9
31-Aug-21	13:00	71.0	68.0	73.0		71.0	Overcast	1.3

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$Corrected\ noise\ level\ (CNL) = 10 \times \log \left[\left(10^{\frac{Measured\ noise\ level, L_{eq}}{10}} \right) - \left(10^{\frac{Baseline\ noise\ level}{10}} \right) \right]$$

NMS 7 Tin Liu

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	13:00	69.6	67.0	71.5	75	69.6	Fine	0.6
12-May-21	13:00	71.1	68.0	74.0		71.1	Fine	0.6
18-May-21	09:58	63.2	60.0	65.5		63.2	Sunny	0.6
24-May-21	13:02	68.6	66.0	70.0		68.6	Fine	0.8
04-Jun-21	11:35	63.9	60.5	65.0		63.9	Fine	0.4
10-Jun-21	10:56	71.1	66.5	73.0		71.1	Fine	0.8
16-Jun-21	09:40	63.6	61.0	64.5		63.6	Sunny	0.4
22-Jun-21	09:55	64.2	62.0	67.0		64.2	Fine	0.4
28-Jun-21	14:25	63.7	61.0	65.0		63.7	Overcast	1.3
09-Jul-21	09:42	64.2	62.0	65.5		64.2	Fine	0.4
15-Jul-21	09:53	64.6	60.5	65.5		64.6	Fine	0.7
21-Jul-21	13:02	63.3	62.0	64.5		63.3	Fine	0.6
27-Jul-21	13:07	64.2	61.5	65.5		64.2	Sunny	0.8
02-Aug-21	09:58	65.0	63.5	67.5		65.0	Sunny	0.5
13-Aug-21	09:47	64.4	62.0	66.0		64.4	Fine	0.7
19-Aug-21	09:49	64.5	62.0	65.5		64.5	Fine	0.7
25-Aug-21	09:59	64.2	61.5	66.0		64.2	Sunny	0.6
31-Aug-21	10:25	66.5	63.5	67.5		66.5	Overcast	0.7

NMS 8 Shatin Plaza

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	08:32	63.6	60.5	66.0	75	63.6	Sunny	0.5
13-May-21	08:43	66.7	65.5	67.5		66.7	Sunny	0.4
17-May-21	08:37	66.7	65.5	68.0		66.7	Sunny	0.6
25-May-21	08:33	66.8	65.5	68.0		66.8	Sunny	0.3
05-Jun-21	08:42	65.5	63.0	66.5		65.5	Fine	0.3
11-Jun-21	09:10	65.7	63.5	66.5		65.7	Fine	0.7
17-Jun-21	08:25	66.8	63.0	68.0		66.8	Fine	0.7
23-Jun-21	09:00	67.4	63.5	68.5		67.4	Fine	1.0
29-Jun-21	08:35	68.3	63.0	70.0		68.3	Overcast	0.6
10-Jul-21	08:50	64.9	62.0	66.5		64.9	Fine	0.6
16-Jul-21	08:37	66.1	63.5	68.0		66.1	Fine	0.4
22-Jul-21	08:30	66.5	63.5	68.0		66.5	Fine	0.6
28-Jul-21	08:44	64.4	62.0	65.5		64.4	Sunny	0.9
03-Aug-21	08:36	65.3	63.0	67.5		65.3	Sunny	0.8
14-Aug-21	08:41	64.2	62.5	66.0		64.2	Fine	0.4
20-Aug-21	08:19	65.0	62.0	66.5		65.0	Sunny	1.1
26-Aug-21	08:35	65.2	62.0	66.5		65.2	Sunny	0.4
30-Aug-21	08:46	65.5	63.5	67.0		65.5	Overcast	0.7

NMS 9 Lek Yuen Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	09:10	66.0	62.0	68.5	75	66.0	Sunny	0.4
13-May-21	09:24	69.2	62.5	73.0		69.2	Sunny	0.4
17-May-21	14:24	70.6	68.5	72.5		70.6	Sunny	0.5
25-May-21	09:58	64.0	61.5	66.5		64.0	Sunny	0.5
05-Jun-21	10:01	68.7	66.5	70.0		68.7	Fine	0.5
11-Jun-21	09:49	64.7	61.5	65.5		64.7	Fine	0.9
17-Jun-21	09:33	69.0	65.0	71.5		69.0	Fine	0.4
23-Jun-21	10:12	67.4	64.5	69.5		67.4	Fine	0.8
29-Jun-21	09:48	66.5	64.0	67.5		66.5	Overcast	0.3
10-Jul-21	10:05	65.8	61.0	66.5		65.8	Fine	1.1
16-Jul-21	09:44	63.8	59.5	65.0		63.8	Fine	0.7
22-Jul-21	09:42	66.0	64.5	68.5		66.0	Fine	0.4
28-Jul-21	10:15	68.5	63.5	69.5		68.5	Sunny	0.2
03-Aug-21	09:47	69.0	61.5	70.0		69.0	Sunny	0.4
14-Aug-21	09:56	67.0	60.0	69.0		67.0	Fine	1.2
20-Aug-21	09:29	66.3	60.0	67.5		66.3	Sunny	0.5
26-Aug-21	09:52	64.5	59.5	66.0		64.5	Sunny	0.8
30-Aug-21	09:59	67.7	59.5	69.5		67.7	Overcast	0.5

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$\text{Corrected noise level (CNL)} = 10 \times \log \left[\left(10^{\frac{\text{Measured noise level, } L_{eq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 10A Shatin Tsung Tsin School

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	09:50	63.8	60.0	65.5	70	63.8	Sunny	0.4
13-May-21	09:58	64.0	60.5	66.5		64.0	Sunny	0.6
17-May-21	10:22	64.7	61.5	67.0		64.7	Sunny	0.6
25-May-21	10:36	66.5	62.5	68.0		66.5	Sunny	0.5
05-Jun-21	08:33	63.6	61.0	65.5		63.6	Fine	0.5
11-Jun-21	10:26	63.2	59.5	64.0	65	63.2	Fine	0.5
17-Jun-21	10:07	64.7	60.5	66.0	70	64.7	Fine	1.2
23-Jun-21	10:46	63.7	59.0	65.5		63.7	Fine	0.5
29-Jun-21	10:22	64.2	60.0	65.0		64.2	Overcast	0.5
10-Jul-21	10:41	63.0	58.5	65.0		63.0	Fine	0.9
16-Jul-21	10:20	62.5	59.0	65.0		62.5	Fine	0.3
22-Jul-21	10:18	63.2	60.5	64.5		63.2	Fine	0.7
28-Jul-21	10:55	63.2	60.0	65.5		63.2	Sunny	0.8
03-Aug-21	10:22	63.3	59.0	64.5		63.3	Sunny	1.1
14-Aug-21	10:33	64.9	60.5	65.5		64.9	Fine	0.2
20-Aug-21	10:07	63.8	60.0	64.5		63.8	Sunny	1
26-Aug-21	10:33	63.8	61.5	65.0		63.8	Sunny	1.2
30-Aug-21	10:40	62.2	60.5	64.0		62.2	Overcast	0.8

The limit level was 65 dB (A) for Shatin Tsung Tsin School during 2nd - 4th, 7th, 8th, 10th and 11th June 2021.

NMS 11 Sheung Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	09:52	61.2	59.0	63.0	75	61.2	Sunny	0.5
13-May-21	10:05	63.3	59.5	65.5		63.3	Sunny	0.4
17-May-21	09:45	57.9	52.5	62.0		57.9	Sunny	0.5
25-May-21	09:39	56.3	52.5	60.5		56.3	Sunny	0.4
05-Jun-21	09:04	58.3	54.5	59.5		58.3	Fine	0.3
11-Jun-21	16:00	64.3	60.5	66.0		64.3	Fine	0.4
17-Jun-21	16:00	55.7	52.5	56.5		55.7	Fine	0.5
23-Jun-21	09:30	54.0	51.5	55.0		54.0	Fine	0.7
29-Jun-21	08:55	65.5	63.0	68.0		65.5	Overcast	0.6
10-Jul-21	09:38	59.7	54.0	60.5		59.7	Fine	0.3
16-Jul-21	09:26	58.4	53.5	61.0		58.4	Fine	1.0
22-Jul-21	15:56	63.3	60.5	65.5		63.3	Fine	0.5
28-Jul-21	11:16	59.9	57.5	61.0		59.9	Sunny	0.6
03-Aug-21	09:30	56.4	52.0	57.0		56.4	Sunny	0.6
14-Aug-21	09:22	56.3	52.0	57.0		56.3	Fine	1
20-Aug-21	16:10	58.1	52.0	59.5		58.1	Sunny	0.6
26-Aug-21	11:17	55.9	52.0	58.0		55.9	Sunny	0.4
30-Aug-21	09:28	57.9	54.0	59.5		57.9	Overcast	0.9

NMS 12 SKH Holy Spirit Primary School

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	11:03	65.1	60.5	67.8	70	65.1	Sunny	0.3
13-May-21	11:23	64.4	60.0	65.5		64.4	Sunny	0.6
17-May-21	11:00	63.4	59.5	66.5		63.4	Sunny	0.6
25-May-21	10:58	64.2	60.0	65.5		64.2	Sunny	0.2
05-Jun-21	09:12	64.1	61.5	66.5		65	64.1	Fine
11-Jun-21	11:06	62.4	59.0	63.5	70	62.4	Fine	0.7
17-Jun-21	10:39	68.5	59.5	68.5		68.5	Fine	0.8
23-Jun-21	11:19	64.9	58.5	68.0		64.9	Fine	0.6
29-Jun-21	10:58	64.4	58.5	66.0		64.4	Overcast	0.8
10-Jul-21	11:17	64.6	62.5	66.5		64.6	Fine	1.3
16-Jul-21	10:57	64.3	61.5	66.0		64.3	Fine	0.5
22-Jul-21	10:56	63.4	61.5	65.0		63.4	Fine	1.0
28-Jul-21	11:30	63.7	61.5	65.5		63.7	Sunny	0.7
03-Aug-21	10:59	64.0	62.0	66.0		64.0	Sunny	1.2
14-Aug-21	11:08	64.8	63.0	66.0		64.8	Fine	0.8
20-Aug-21	10:42	63.0	61.0	65.5		63.0	Sunny	0.8
26-Aug-21	11:16	62.5	59.5	63.5		62.5	Sunny	1.1
30-Aug-21	11:17	62.9	60.0	64.0		62.9	Overcast	0.8

The limit level is 65 dB (A) for SKH Holy Spirit Primary School during 3rd - 8th June 2021

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$\text{Corrected noise level (CNL)} = 10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 13 Lek Yuen Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	10:26	62.3	60.0	65.0	75	62.3	Sunny	0.4
13-May-21	10:32	61.7	58.0	64.5		61.7	Sunny	0.6
17-May-21	10:59	62.0	58.5	64.0		62.0	Sunny	0.5
25-May-21	11:10	61.4	58.5	64.0		61.4	Sunny	0.5
05-Jun-21	10:35	62.4	59.5	63.5		62.4	Fine	0.4
11-Jun-21	17:11	65.3	61.0	67.0		65.3	Fine	0.6
17-Jun-21	11:13	58.6	57.0	60.5		58.6	Fine	0.7
23-Jun-21	13:05	59.7	58.0	61.5		59.7	Fine	0.2
29-Jun-21	13:05	60.3	58.5	62.5		60.3	Overcast	0.4
10-Jul-21	13:00	59.8	55.0	61.0		59.8	Fine	0.7
16-Jul-21	11:33	62.2	60.0	64.0		62.2	Fine	0.4
22-Jul-21	11:34	65.4	62.5	67.0		65.4	Fine	0.8
28-Jul-21	13:02	61.0	58.0	63.0		61.0	Sunny	0.3
03-Aug-21	11:34	59.9	56.0	61.5		59.9	Sunny	0.5
14-Aug-21	11:43	59.5	57.0	61.0		59.5	Fine	0.5
20-Aug-21	11:27	60.7	58.5	62.0		60.7	Sunny	0.6
26-Aug-21	13:10	59.3	56.0	61.5		59.3	Sunny	0.5
30-Aug-21	13:10	60.0	56.5	64.0		60.0	Overcast	0.3

NMS 14 Sheung Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	10:31	60.7	58.5	62.5	75	60.7	Sunny	0.6
13-May-21	10:46	59.1	56.0	61.0		59.1	Sunny	0.4
17-May-21	09:10	60.4	57.0	63.0		60.4	Sunny	0.3
25-May-21	10:15	59.7	57.0	62.0		59.7	Sunny	0.4
05-Jun-21	09:41	61.8	58.0	62.5		61.8	Fine	0.3
11-Jun-21	15:26	64.0	60.5	65.0		64.0	Fine	0.6
17-Jun-21	15:21	60.4	58.0	62.0		60.4	Fine	0.5
23-Jun-21	10:06	61.9	59.5	64.0		61.9	Fine	1.2
29-Jun-21	09:36	62.2	59.5	64.5		62.2	Overcast	0.6
10-Jul-21	10:16	61.0	57.0	62.5		61.0	Fine	0.2
16-Jul-21	10:03	60.7	57.5	63.5		60.7	Fine	0.5
22-Jul-21	15:22	62.1	59.5	63.5		62.1	Fine	1.3
28-Jul-21	10:37	60.1	58.0	62.5		60.1	Sunny	0.5
03-Aug-21	10:06	63.0	61.0	64.0		63	Sunny	0.6
14-Aug-21	09:58	62.9	60.5	64.5		62.9	Fine	0.9
20-Aug-21	15:32	62.2	61.0	63.5		62.2	Sunny	0.7
26-Aug-21	10:40	64.1	60.0	66.0		64.1	Sunny	0.5
30-Aug-21	10:07	62.3	60.0	63.6		62.3	Overcast	0.6

NMS 15 Ha Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	15:06	64.5	63.0	66.0	75	64.5	Fine	0.4
12-May-21	09:06	64.1	60.5	65.0		64.1	Fine	0.7
18-May-21	11:09	64.5	63.5	66.0		64.5	Sunny	0.5
24-May-21	13:40	63.1	61.5	64.5		63.1	Fine	0.8
04-Jun-21	10:00	68.3	66.0	70.5		68.3	Fine	0.4
10-Jun-21	10:46	64.2	61.0	65.5		64.2	Fine	1.2
16-Jun-21	13:38	56.3	53.5	57.5		56.3	Sunny	0.6
22-Jun-21	09:37	57.3	55.0	58.5		57.3	Fine	0.4
28-Jun-21	15:39	56.8	54.5	58.5		56.8	Overcast	1.0
09-Jul-21	11:00	57.3	54.0	59.5		57.3	Fine	0.9
15-Jul-21	13:03	58.0	54.5	59.5		58.0	Fine	0.8
21-Jul-21	09:11	62.6	60.5	64.0		62.6	Fine	1.1
27-Jul-21	10:02	58.7	54.5	62.5		58.7	Fine	0.5
02-Aug-21	09:29	59.2	56.5	61.5		59.2	Sunny	0.5
13-Aug-21	10:14	59.2	56.0	62.0		59.2	Fine	0.3
19-Aug-21	11:05	61.8	56.0	63.5		61.8	Fine	0.8
25-Aug-21	09:30	58.0	56.0	60.0		58.0	Sunny	1.1
31-Aug-21	10:45	61.5	59.5	63.0		61.5	Overcast	0.9

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$\text{Corrected noise level (CNL)} = 10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 16 Ha Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	15:42	63.6	61.5	64.5	75	63.6	Fine	0.7
12-May-21	09:41	64.7	62.0	66.0		64.7	Fine	0.4
18-May-21	11:43	68.9	67.0	70.5		68.9	Sunny	0.3
24-May-21	14:14	66.8	62.5	68.0		66.8	Fine	0.6
04-Jun-21	10:35	60.5	57.0	61.5		60.5	Fine	0.5
10-Jun-21	11:26	63.4	58.5	66.0		63.4	Fine	0.6
16-Jun-21	14:16	58.0	55.5	60.0		58.0	Sunny	0.5
22-Jun-21	10:15	59.0	56.5	60.5		59.0	Fine	0.5
28-Jun-21	16:16	60.7	57.5	62.0		60.7	Overcast	0.5
09-Jul-21	11:36	61.9	58.5	64.0		61.9	Fine	0.3
15-Jul-21	13:43	60.3	56.5	62.0		60.3	Fine	0.4
21-Jul-21	09:45	64.1	61.0	65.5		64.1	Fine	1.4
27-Jul-21	09:20	59.9	55.5	63.0		59.9	Fine	0.7
02-Aug-21	10:04	60.5	57.0	62.0		60.5	Sunny	0.5
13-Aug-21	10:52	64.7	60.0	67.5		64.7	Fine	0.3
19-Aug-21	11:40	62.0	59.5	63.0		62.0	Fine	0.9
25-Aug-21	10:09	62.1	58.0	65.5		62.1	Sunny	0.8
31-Aug-21	09:30	61.4	57.5	64.0		61.4	Overcast	0.5

NMS 17 Shatin Pui Ying College

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	11:00	64.9	62.5	68.0	65	64.9	Sunny	0.5
13-May-21	11:15	63.7	60.0	68.5		63.7	Sunny	0.5
17-May-21	11:32	61.4	58.5	63.0		61.4	Sunny	0.4
25-May-21	11:45	62.6	58.5	63.5	70	62.6	Sunny	0.4
05-Jun-21	08:47	59.7	58.5	60.5		59.7	Fine	0.4
11-Jun-21	14:11	62.2	58.0	63.5	65	62.2	Fine	0.6
17-Jun-21	13:01	63.0	59.5	65.0		63.0	Fine	1.0
23-Jun-21	11:20	61.1	58.5	62.5	70	61.1	Fine	0.4
29-Jun-21	11:40	60.3	57.8	61.5		60.3	Overcast	0.5
10-Jul-21	13:43	62.5	59.5	64.0		62.5	Fine	0.7
16-Jul-21	13:05	61.2	58.0	62.5		61.2	Fine	0.2
22-Jul-21	14:12	64.7	61.0	65.5		64.7	Fine	0.5
28-Jul-21	13:46	63.6	58.0	64.5		63.6	Sunny	0.9
03-Aug-21	13:00	63.3	60.5	65.0		63.3	Sunny	0.8
14-Aug-21	13:26	64.2	62.5	65.5		64.2	Fine	1.1
20-Aug-21	13:10	64.5	61.5	66.0		64.5	Sunny	0.8
26-Aug-21	13:58	63.7	62.0	65.0		63.7	Sunny	0.9
30-Aug-21	13:52	64.2	62.0	66.5	64.2	Overcast	0.6	

The limit level is 65 dB (A) for Shatin Pui Ying College during 1st - 18th May, 4th, 7th - 11th, 15th - 18th June 2021.

NMS 18 Ha Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	16:19	63.1	60.3	64.0	75	63.1	Fine	0.4
12-May-21	10:15	62.7	59.5	63.5		62.7	Fine	1.1
18-May-21	13:02	59.2	58.0	61.0		59.2	Sunny	0.4
24-May-21	14:39	63.7	60.0	64.3		63.7	Fine	0.4
04-Jun-21	11:13	58.2	56.5	59.0		58.2	Fine	0.4
10-Jun-21	13:06	59.7	58.0	63.0		59.7	Fine	0.8
16-Jun-21	14:49	57.8	54.5	58.5		57.8	Sunny	0.5
22-Jun-21	10:50	59.4	55.0	60.0		59.4	Fine	0.4
28-Jun-21	16:48	59.0	54.5	60.5		59.0	Overcast	0.8
09-Jul-21	13:10	57.4	53.5	59.5		57.4	Fine	0.5
15-Jul-21	14:20	58.8	54.0	60.5		58.8	Fine	0.4
21-Jul-21	10:21	61.6	59.5	62.5		61.6	Fine	0.6
27-Jul-21	08:44	59.7	58.5	60.5		59.7	Fine	0.7
02-Aug-21	10:43	60.2	56.0	63.0		60.2	Sunny	0.3
13-Aug-21	11:29	59.5	54.0	61.0		59.5	Fine	0.5
19-Aug-21	13:00	59.5	57.0	61.0		59.5	Fine	0.4
25-Aug-21	10:41	64.4	58.0	65.5		64.4	Sunny	1.0
31-Aug-21	10:07	61.5	59.5	63.0		61.5	Overcast	0.7

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$\text{Corrected noise level (CNL)} = 10 \times \log \left[\left(10^{\frac{\text{Measured noise level, } L_{eq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 19 Wo Che Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	13:11	63.5	59.0	66.5	75	63.5	Sunny	0.5
13-May-21	13:09	61.5	57.5	64.0		61.5	Sunny	0.6
17-May-21	13:04	66.3	63.0	68.5		66.3	Sunny	0.4
25-May-21	13:02	65.8	63.0	68.0		65.8	Sunny	0.6
05-Jun-21	09:29	64.7	62.0	66.0		64.7	Fine	0.6
11-Jun-21	13:00	67.2	65.5	68.0		67.2	Fine	0.9
17-Jun-21	13:35	62.9	61.0	63.5		62.9	Fine	0.5
23-Jun-21	13:08	64.5	62.0	66.0		64.5	Fine	0.6
29-Jun-21	10:53	64.9	63.0	66.5		64.9	Overcast	0.6
10-Jul-21	13:15	70.0	64.0	73.5		70.0	Fine	1.2
16-Jul-21	13:10	64.2	62.0	66.5		64.2	Fine	0.6
22-Jul-21	13:00	66.6	65.0	68.5		66.6	Fine	1.6
28-Jul-21	08:33	65.2	61.5	68.0		65.2	Sunny	1.1
03-Aug-21	11:26	63.2	61.5	64.5		63.2	Sunny	0.9
14-Aug-21	13:02	66.5	64.5	68.0		66.5	Fine	0.8
20-Aug-21	13:45	64.4	63.0	66.0		64.4	Sunny	0.4
26-Aug-21	09:45	68.5	64.5	70.0		68.5	Sunny	0.7
30-Aug-21	13:00	67.1	65.0	69.0		67.1	Overcast	0.5

NMS 20 Wo Che Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	13:18	64.5	59.5	66.5	75	64.5	Sunny	0.5
13-May-21	13:04	61.7	57.5	64.0		61.7	Sunny	0.6
17-May-21	13:04	64.6	62.5	67.0		64.6	Sunny	0.5
25-May-21	13:03	64.4	61.5	67.0		64.4	Sunny	0.5
05-Jun-21	10:02	68.0	63.5	69.0		68.0	Fine	0.6
11-Jun-21	13:34	66.4	64.5	67.5		66.4	Fine	1.2
17-Jun-21	14:06	63.2	59.5	65.0		63.2	Fine	0.6
23-Jun-21	13:40	60.8	54.0	64.0		60.8	Fine	0.6
29-Jun-21	11:29	60.3	57.0	63.0		60.3	Overcast	0.6
10-Jul-21	13:58	66.0	65.0	67.5		66.0	Fine	1.0
16-Jul-21	13:53	72.5	63.0	77.0		72.5	Fine	0.6
22-Jul-21	13:36	65.8	63.3	67.0		65.8	Fine	0.7
28-Jul-21	09:17	68.3	62.5	69.5		68.3	Sunny	0.6
03-Aug-21	13:20	62.3	60.5	63.0		62.3	Sunny	0.7
14-Aug-21	13:44	63.4	62.5	65.0		63.4	Fine	0.7
20-Aug-21	14:21	64.9	62.5	67.0		64.9	Sunny	0.5
26-Aug-21	08:43	60.8	58.5	61.5		60.8	Sunny	0.7
30-Aug-21	13:36	62.1	60.0	63.5		62.1	Overcast	0.6

NMS 23 Pai Tau

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	14:30	66.4	63.0	67.0	75	66.4	Fine	0.7
12-May-21	08:40	67.6	64.5	68.3		67.6	Fine	1.1
18-May-21	10:33	63.3	60.0	65.5		63.3	Sunny	0.2
24-May-21	14:17	67.0	64.5	68.5		67.0	Fine	0.5
04-Jun-21	13:01	62.8	60.0	64.0		62.8	Fine	0.6
10-Jun-21	11:32	66.7	65.0	68.0		66.7	Fine	0.9
16-Jun-21	13:00	62.5	60.0	64.5		62.5	Sunny	0.7
22-Jun-21	08:51	62.0	59.5	63.5		62.0	Fine	0.5
28-Jun-21	15:03	64.5	61.0	65.5		64.5	Overcast	0.8
09-Jul-21	10:20	61.5	59.0	63.5		61.5	Fine	0.5
15-Jul-21	10:30	61.3	59.0	62.5		61.3	Fine	1.0
21-Jul-21	10:57	67.7	63.5	69.5		67.7	Fine	1.2
27-Jul-21	10:39	62.1	59.5	64.0		62.1	Fine	0.5
02-Aug-21	08:45	62.9	60.0	65.0		62.9	Sunny	0.9
13-Aug-21	08:36	67.3	61.5	67.5		67.3	Fine	0.5
19-Aug-21	10:30	62.2	60.0	64.0		62.2	Fine	0.2
25-Aug-21	08:54	64.2	61.0	66.0		64.2	Sunny	1.0
31-Aug-21	11:32	65.1	61.5	67.0		65.1	Overcast	0.7

NMS 24 Shatin Plaza

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	08:32	63.0	62.0	65.5	75	63.0	Sunny	0.4
13-May-21	08:45	64.2	63.0	65.0		64.2	Sunny	0.6
17-May-21	09:09	66.0	64.5	67.5		66.0	Sunny	0.6
25-May-21	09:14	67.4	65.0	68.5		67.4	Sunny	0.3
05-Jun-21	09:26	64.4	62.5	65.0		64.4	Fine	0.3
11-Jun-21	08:37	66.4	64.0	67.5		66.4	Fine	0.6
17-Jun-21	08:57	66.4	65.0	67.5		66.4	Fine	0.7
23-Jun-21	09:31	65.0	63.0	66.5		65.0	Fine	1.4
29-Jun-21	09:10	63.8	62.0	65.0		63.8	Overcast	0.6
10-Jul-21	09:27	64.3	62.5	66.0		64.3	Fine	0.6
16-Jul-21	09:09	65.4	63.5	67.0		65.4	Fine	0.7
22-Jul-21	09:05	67.6	65.5	69.0		67.6	Fine	1.1
28-Jul-21	09:26	64.6	62.0	66.0		64.6	Sunny	1.2
03-Aug-21	09:08	64.7	63.5	66.5		64.7	Sunny	0.7
14-Aug-21	09:14	64.5	62.5	66.0		64.5	Fine	0.5
20-Aug-21	08:51	64.6	62.5	65.5		64.6	Sunny	0.9
26-Aug-21	09:08	65.6	63.0	66.5		65.6	Sunny	0.5
30-Aug-21	09:20	64.8	63.0	65.5		64.8	Overcast	0.5

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$\text{Corrected noise level (CNL)} = 10 \times \log \left[\left(10^{\frac{\text{Measured noise level, } L_{eq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 25A Sheung Wo Che

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	09:19	59.8	56.5	62.0	75	59.8	Sunny	0.5
13-May-21	09:28	62.7	60.5	64.5		62.7	Sunny	0.4
17-May-21	10:22	60.8	56.0	64.0		60.8	Sunny	0.5
25-May-21	09:00	60.7	55.5	64.0		60.7	Sunny	0.5
05-Jun-21	08:30	61.9	59.5	63.5		61.9	Fine	0.3
11-Jun-21	14:24	68.6	63.5	70.0		68.6	Fine	0.4
17-Jun-21	16:35	59.3	54.0	61.0		59.3	Fine	0.4
23-Jun-21	08:54	60.0	54.0	62.5		60.0	Fine	0.8
29-Jun-21	08:16	65.1	59.0	66.5		65.1	Overcast	0.6
10-Jul-21	08:56	63.9	59.5	66.0		63.9	Fine	0.6
16-Jul-21	08:50	66.1	60.5	70.0		66.1	Fine	0.8
22-Jul-21	16:34	68.6	64.5	71.5		68.6	Fine	0.6
28-Jul-21	13:02	64.5	62.5	67.0		64.5	Sunny	0.6
03-Aug-21	08:57	59.6	54.0	63.0		59.6	Sunny	1
14-Aug-21	08:38	58.9	54.0	63.5		58.9	Fine	0.6
20-Aug-21	16:48	60.6	55.0	62.5		60.6	Sunny	0.6
26-Aug-21	13:06	59.4	56.5	62.5		59.4	Sunny	0.7
30-Aug-21	08:42	65.6	61.5	66.5		65.6	Overcast	0.4

NMS 26 Wo Che Estate

Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
07-May-21	13:52	70.8	66.0	72.5	75	70.8	Sunny	0.4
13-May-21	13:50	72.5	67.5	75.0		72.5	Sunny	0.6
17-May-21	11:36	71.9	67.5	74.0		71.9	Sunny	0.4
25-May-21	11:38	72.3	68.5	75.0		72.3	Sunny	0.3
05-Jun-21	09:55	72.8	70.0	73.5		72.8	Fine	0.6
11-Jun-21	14:45	73.4	70.5	75.5		73.4	Fine	0.4
17-Jun-21	14:39	73.0	66.5	73.5		73.0	Fine	0.3
23-Jun-21	10:44	68.2	65.0	70.0		68.2	Fine	0.5
29-Jun-21	10:14	68.5	66.0	70.5		68.5	Overcast	0.7
10-Jul-21	10:52	68.3	64.5	70.5		68.3	Fine	0.9
16-Jul-21	10:45	67.4	65.0	69.5		67.4	Fine	0.2
22-Jul-21	14:46	71.6	67.5	73.3		71.6	Fine	0.8
28-Jul-21	10:00	70.0	65.5	71.0		70.0	Sunny	0.3
03-Aug-21	10:44	66.7	64.0	68.5		66.7	Sunny	0.4
14-Aug-21	10:34	70.1	68.0	72.0		70.1	Fine	0.4
20-Aug-21	14:58	70.5	67.5	73.0		70.5	Sunny	0.4
26-Aug-21	09:58	68.7	66.5	70.0		68.7	Sunny	0.9
30-Aug-21	10:45	71.9	70.0	74.0		71.9	Overcast	1.1

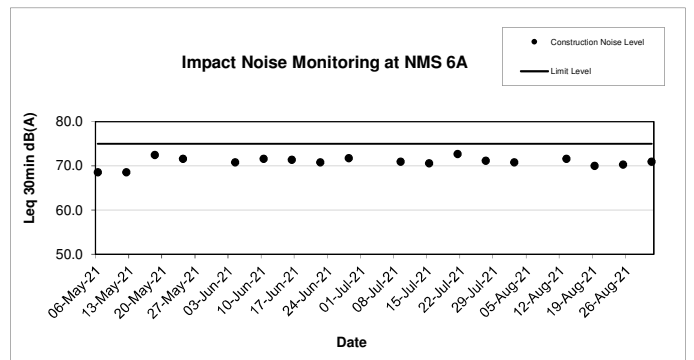
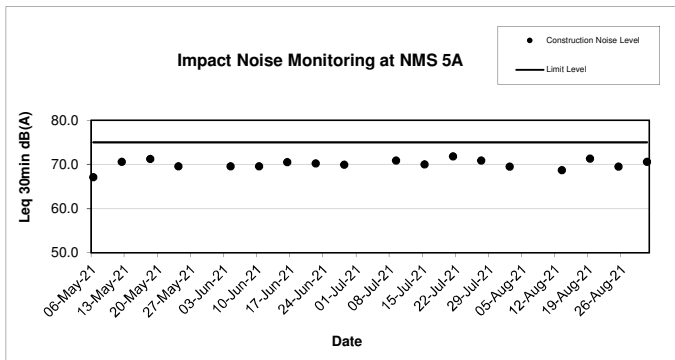
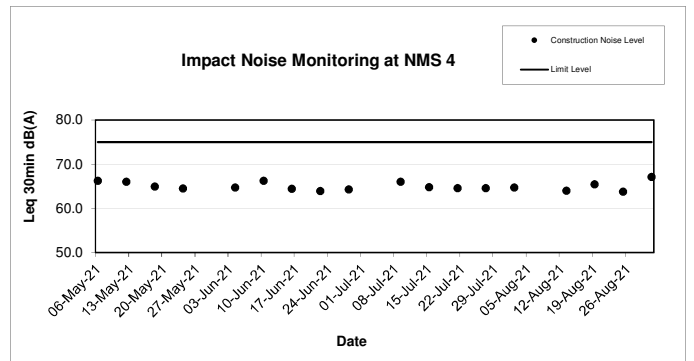
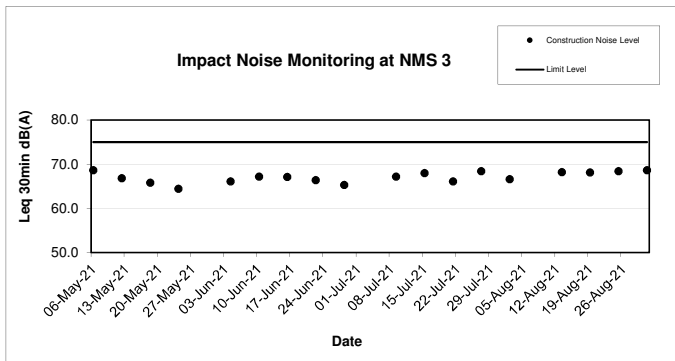
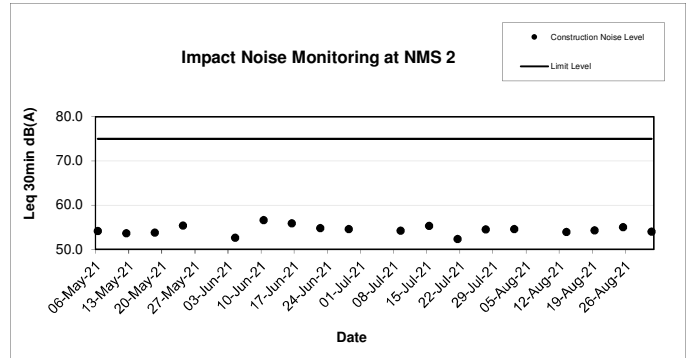
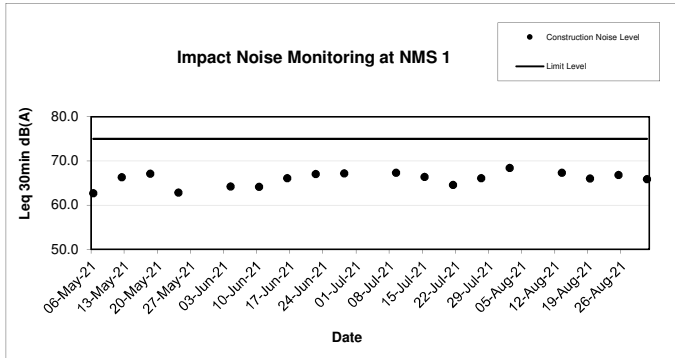
NMS 27 Jockey Club Ti-I College

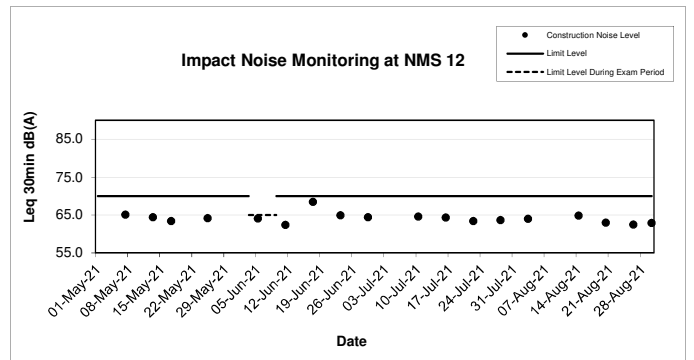
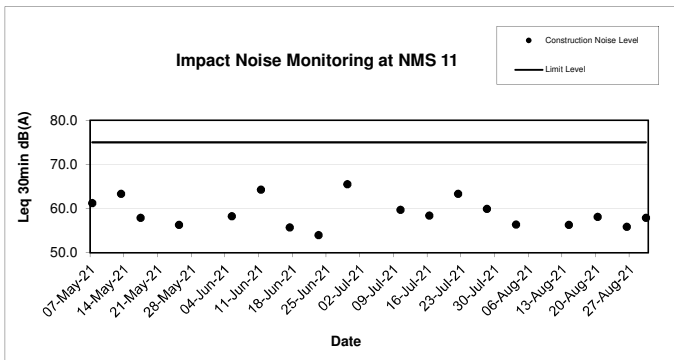
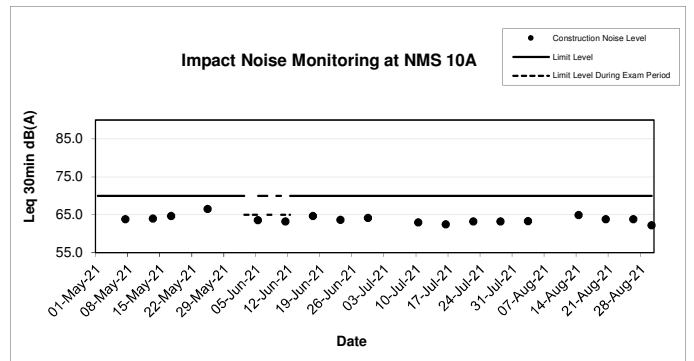
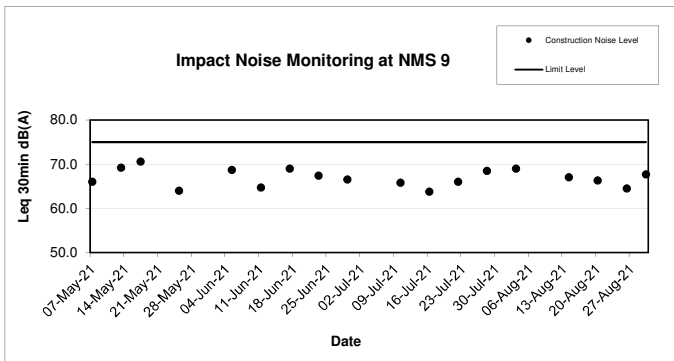
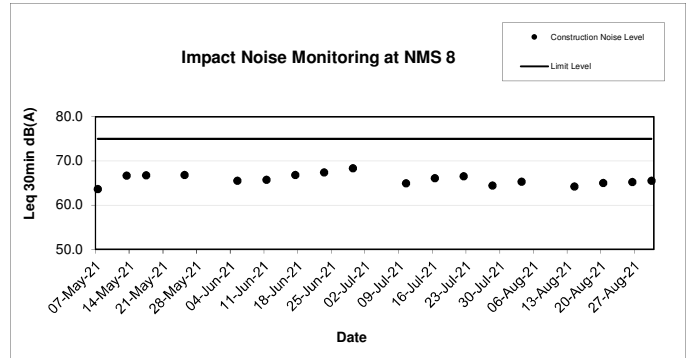
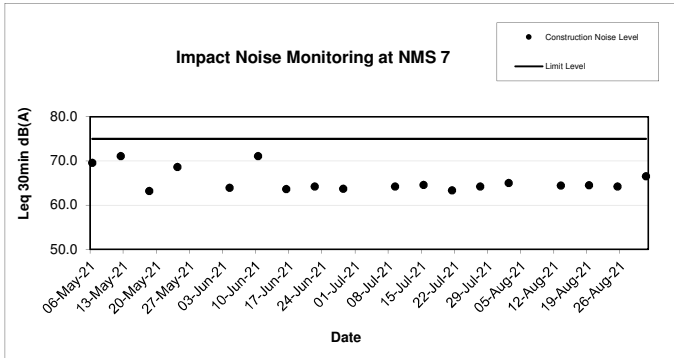
Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L _{eq}	L ₉₀	L ₁₀				
Unit: dB(A) 30 Mins								
06-May-21	13:52	64.6	63.5	66.0	70	64.6	Fine	0.4
12-May-21	11:00	64.0	62.5	65.5		64.0	Fine	0.8
18-May-21	14:40	66.6	64.0	68.5		66.6	Sunny	0.2
24-May-21	14:58	64.6	62.5	65.5		64.6	Fine	0.6
04-Jun-21	08:27	66.8	64.0	69.0		66.8	Fine	0.6
10-Jun-21	09:55	64.2	61.0	65.5		64.2	Fine	0.9
16-Jun-21	16:28	63.3	61.0	65.0	63.3	Sunny	0.6	
22-Jun-21	13:00	64.3	62.0	66.5	64.3	Fine	0.7	
28-Jun-21	13:00	64.5	63.0	67.0	64.5	Overcast	1.1	
09-Jul-21	11:20	65.4	63.0	70.0	65.4	Fine	1.0	
15-Jul-21	13:30	67.3	64.0	68.0	67.3	Fine	0.3	
21-Jul-21	13:34	64.0	61.5	66.0	64.0	Fine	0.7	
27-Jul-21	14:05	65.1	62.5	67.0	65.1	Fine	0.7	
02-Aug-21	11:31	64.8	62.0	66.5	64.8	Sunny	0.7	
13-Aug-21	13:00	65.5	63.0	67.0	65.5	Fine	0.8	
19-Aug-21	16:39	63.7	60.5	65.5	63.7	Fine	0.8	
25-Aug-21	11:25	64.0	62.0	65.5	64.0	Sunny	0.4	
31-Aug-21	14:45	63.5	60.5	65.0	63.5	Overcast	0.7	

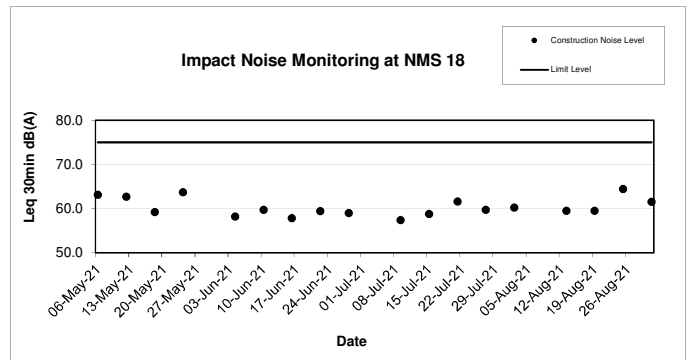
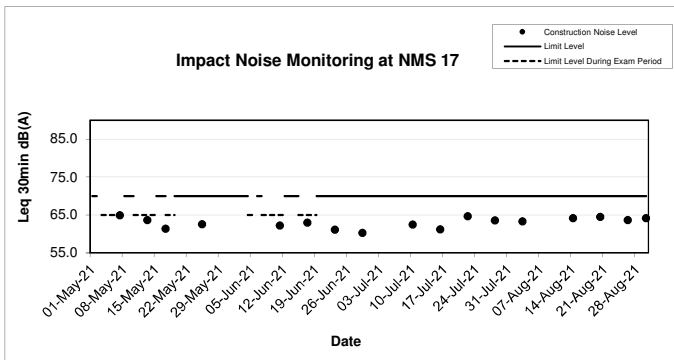
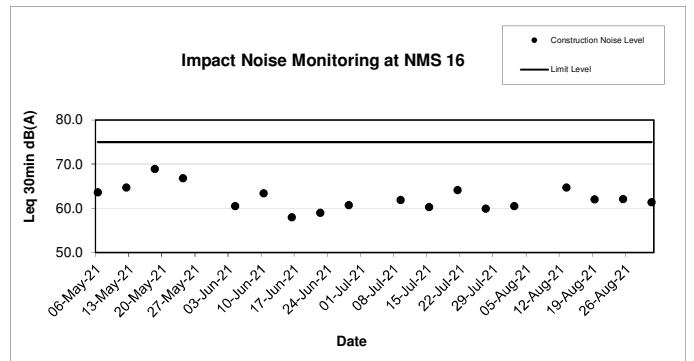
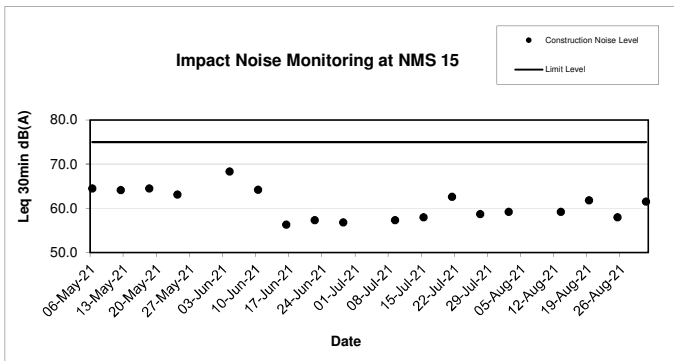
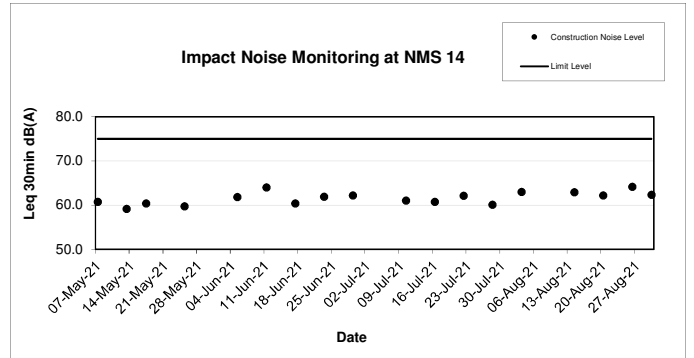
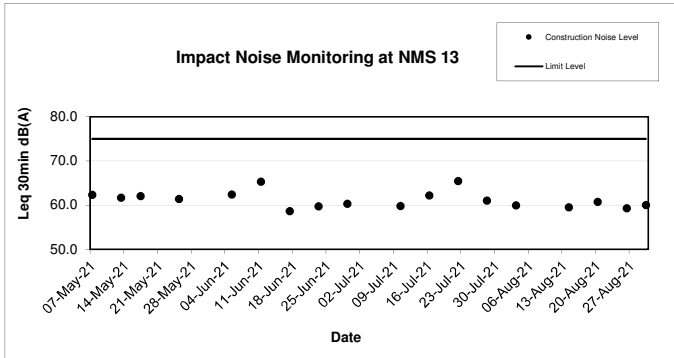
The limit level is 65 dB (A) for Jockey Club Ti-I College during 15th - 28th June 2021.

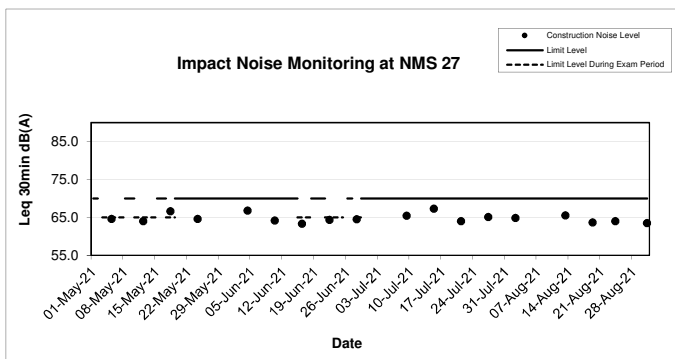
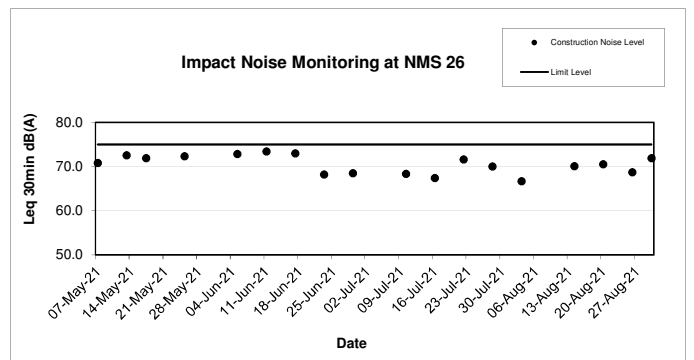
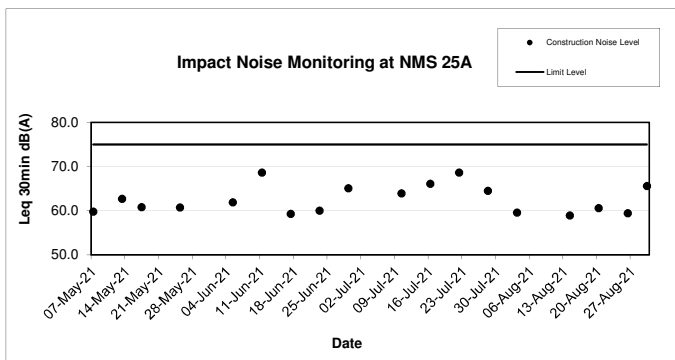
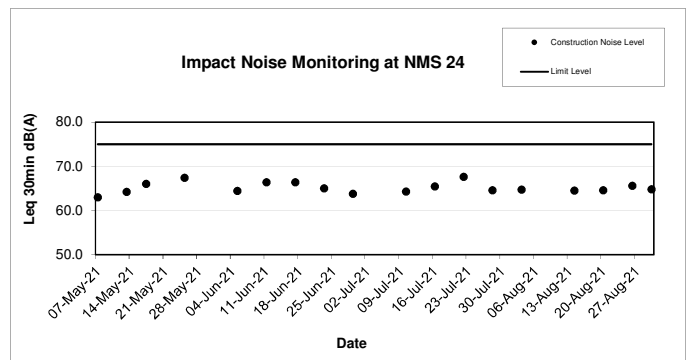
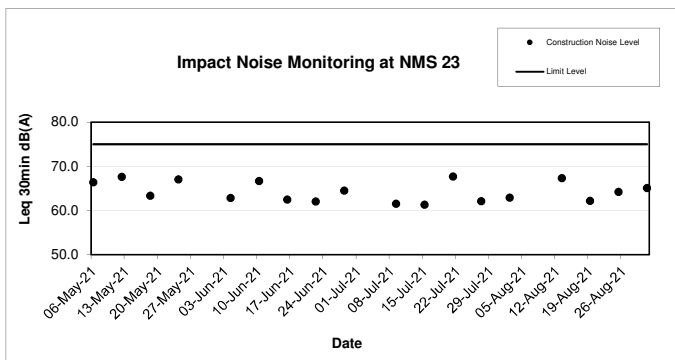
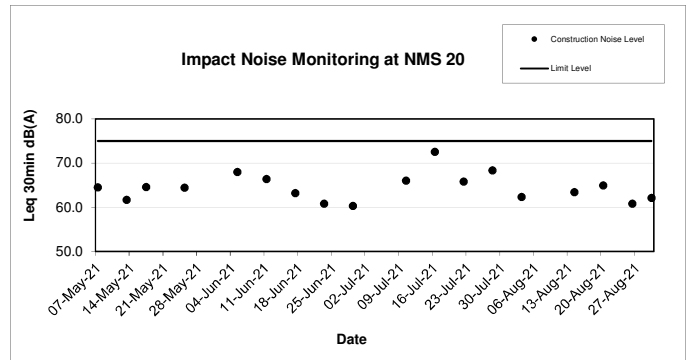
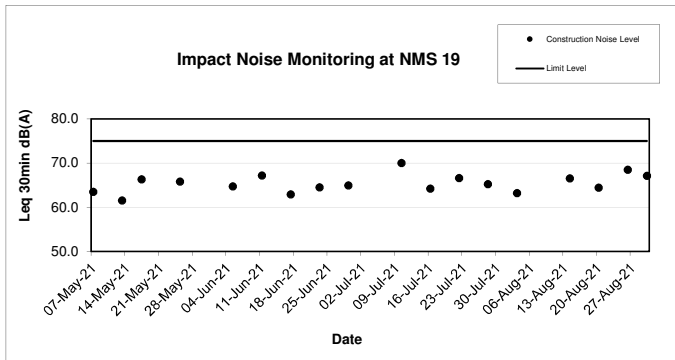
If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$\text{Corrected noise level (CNL)} = 10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$









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

NMS 1 Scenery Court

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
06-May-21	23:00	58.7	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.0
13-May-21	23:00	57.9	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.3
20-May-21	23:01	60.6	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.5
27-May-21	23:00	57.0	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.3
03-Jun-21	23:01	59.4	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.5
10-Jun-21	23:00	56.3	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	2.1
17-Jun-21	23:02	59.8	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.6
24-Jun-21	23:00	56.2	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	1.6
02-Jul-21	23:00	59.8	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.8
08-Jul-21	23:01	59.1	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.9
15-Jul-21	23:00	56.7	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.8
22-Jul-21	23:04	59.2	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.8
29-Jul-21	23:00	57.6	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Overcast	0.8
06-Aug-21	23:00	59.6	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Overcast	0.9
12-Aug-21	23:00	59.1	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.7
19-Aug-21	23:00	59.0	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.7
26-Aug-21	23:00	57.0	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.6

NMS 2 Villa Le Parc

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	02:38	45.1	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.4
14-May-21	02:35	49.4	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.3
21-May-21	02:41	51.1	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.5
28-May-21	02:41	51.6	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.5
04-Jun-21	02:45	51.4	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.5
11-Jun-21	02:44	50.6	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.6
18-Jun-21	02:45	51.3	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.6
24-Jun-21	23:31	53.3	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	1.2
03-Jul-21	02:50	49.7	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.7
08-Jul-21	23:05	53.8	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.6
16-Jul-21	02:38	54.6	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.6
22-Jul-21	23:00	53.6	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.6
29-Jul-21	23:10	52.1	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Overcast	0.7
06-Aug-21	23:00	52.9	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Overcast	1.1
12-Aug-21	23:03	53.2	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.8
20-Aug-21	01:51	52.7	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.4
26-Aug-21	23:11	52.7	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.9

NMS 3 Hilton Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
06-May-21	23:00	61.6	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.4
13-May-21	23:00	62.1	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.3
20-May-21	23:00	62.9	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.5
27-May-21	23:00	62.4	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.5
03-Jun-21	23:00	64.0	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.5
10-Jun-21	23:00	64.0	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.6
17-Jun-21	23:00	64.3	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.4
24-Jun-21	23:00	65.2	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.8
02-Jul-21	23:00	67.2	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.7
08-Jul-21	23:24	67.1	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.8
15-Jul-21	23:30	64.5	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.8
22-Jul-21	23:21	68.6	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.7
29-Jul-21	23:21	62.1	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Overcast	0.9
06-Aug-21	23:21	67.5	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Overcast	0.6
12-Aug-21	23:20	62.9	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.6
20-Aug-21	01:29	62.4	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.5
26-Aug-21	23:20	60.3	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.3

NMS 4 Tin Liu

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	02:40	55.0	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.0
14-May-21	03:00	60.8	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.4
21-May-21	02:51	58.9	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.5
28-May-21	02:35	60.9	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.5
04-Jun-21	02:30	59.7	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.5
11-Jun-21	02:35	59.7	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.6
18-Jun-21	02:40	58.2	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.5
25-Jun-21	02:36	60.2	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	1.4
03-Jul-21	02:21	60.3	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.5
09-Jul-21	02:42	59.6	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.8
16-Jul-21	02:11	58.9	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.3
23-Jul-21	02:28	59.3	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.4
29-Jul-21	23:40	61.9	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Overcast	1.3
07-Aug-21	02:44	58.8	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Overcast	0.6
12-Aug-21	23:30	61.9	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.3
20-Aug-21	01:50	60.1	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.7
26-Aug-21	23:34	61.0	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.4

NMS 5A Wai Wah Centre

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
06-May-21	23:19	71.8	67.9	62.0 - 75.2	55	69.5**	Fine	0.2
13-May-21	23:25	67.8	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.3
20-May-21	23:19	72.0	67.9	62.0 - 75.2	55	69.9**	Fine	0.5
27-May-21	23:22	67.6	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.5
03-Jun-21	23:19	67.3	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.5
10-Jun-21	23:22	67.2	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.8
17-Jun-21	23:21	68.0	67.9	62.0 - 75.2	55	51.6*	Fine	0.6
24-Jun-21	23:22	67.7	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	2.1
02-Jul-21	23:19	68.1	67.9	62.0 - 75.2	55	53.7*	Fine	1.0
08-Jul-21	23:20	67.6	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.6
15-Jul-21	23:52	67.8	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.9
22-Jul-21	23:23	67.9	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.4
29-Jul-21	23:41	67.5	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Overcast	0.6
06-Aug-21	23:18	71.2	67.9	62.0 - 75.2	55	68.5**	Overcast	0.5
12-Aug-21	23:40	67.9	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.9
19-Aug-21	23:19	68.0	67.9	62.0 - 75.2	55	51.6*	Fine	0.7
26-Aug-21	23:42	68.0	67.9	62.0 - 75.2	55	51.6*	Fine	0.4

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).
 **Exceedance due to traffic vehicle noise

NMS 6A Wai Wah Centre

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
06-May-21	23:23	68.4	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.4
13-May-21	23:22	66.9	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.3
20-May-21	23:28	69.3	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.5
27-May-21	23:27	69.1	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.5
03-Jun-21	23:32	68.8	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.5
10-Jun-21	23:31	69.7	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.6
17-Jun-21	23:32	70.3	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.6
25-Jun-21	02:28	67.6	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.7
02-Jul-21	23:20	67.7	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.9
09-Jul-21	00:06	68.2	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	1.2
16-Jul-21	00:10	70.8	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.4
22-Jul-21	23:39	70.1	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.4
30-Jul-21	00:02	69.6	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Overcast	0.9
06-Aug-21	23:41	67.5	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Overcast	0.7
12-Aug-21	23:58	70.5	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.7
20-Aug-21	01:08	65.9	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	1.1
26-Aug-21	23:59	69.3	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.7

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 7 Tin Liu

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	02:12	58.6	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.0
14-May-21	03:25	58.3	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.3
21-May-21	02:23	59.1	59.0	51.4 - 65.5	55	42.7*	Fine	0.5
28-May-21	02:55	60.2	59.0	51.4 - 65.5	55	54.0*	Fine	0.6
04-Jun-21	02:09	58.9	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.6
11-Jun-21	02:55	60.0	59.0	51.4 - 65.5	55	53.1*	Fine	0.6
18-Jun-21	02:20	59.5	59.0	51.4 - 65.5	55	49.9*	Fine	0.5
25-Jun-21	02:55	60.0	59.0	51.4 - 65.5	55	53.1*	Fine	1.7
03-Jul-21	02:03	58.9	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.9
09-Jul-21	02:20	59.2	59.0	51.4 - 65.5	55	45.9*	Fine	0.7
16-Jul-21	01:54	58.9	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.8
23-Jul-21	02:10	58.7	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.7
29-Jul-21	23:59	57.3	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Overcast	0.5
07-Aug-21	02:25	58.5	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Overcast	0.5
12-Aug-21	23:51	57.0	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.3
20-Aug-21	01:30	58.4	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.5
26-Aug-21	23:52	58.2	59.0	51.4 - 65.5	55	Measured Noise Level<Baseline	Fine	0.6

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 8 Shatin Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
06-May-21	23:48	57.4	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.4
13-May-21	23:47	58.2	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.3
20-May-21	23:53	58.1	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.5
27-May-21	23:51	58.1	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.5
03-Jun-21	23:57	57.8	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.8
10-Jun-21	23:56	59.2	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.6
17-Jun-21	23:57	58.9	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.6
25-Jun-21	02:05	60.2	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.7
02-Jul-21	23:51	58.4	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.9
09-Jul-21	00:26	61.4	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.6
16-Jul-21	00:30	58.4	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.7
23-Jul-21	00:04	62.4	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.6
30-Jul-21	00:30	58.2	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Overcast	0.5
07-Aug-21	00:03	61.4	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Overcast	0.6
13-Aug-21	00:48	59.6	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.4
20-Aug-21	00:47	59.8	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.9
27-Aug-21	00:40	61.7	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.8

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 9 Lek Yuen Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	00:18	56.1	53.5	39.5 - 63.1	55	52.6*	Fine	0.4
14-May-21	00:17	56.1	53.5	39.5 - 63.1	55	52.6*	Fine	0.3
21-May-21	00:26	54.2	53.5	39.5 - 63.1	55	Measured Noise Level<Limit Level	Fine	0.5
28-May-21	00:23	54.2	53.5	39.5 - 63.1	55	Measured Noise Level<Limit Level	Fine	0.5
04-Jun-21	00:29	54.2	53.5	39.5 - 63.1	55	Measured Noise Level<Limit Level	Fine	0.6
11-Jun-21	00:28	54.2	53.5	39.5 - 63.1	55	Measured Noise Level<Limit Level	Fine	0.6
18-Jun-21	00:29	54.2	53.5	39.5 - 63.1	55	Measured Noise Level<Limit Level	Fine	0.6
25-Jun-21	01:47	57.2	53.5	39.5 - 63.1	55	54.8*	Fine	0.5
03-Jul-21	00:22	56.8	53.5	39.5 - 63.1	55	54.1*	Fine	0.6
09-Jul-21	00:47	55.8	53.5	39.5 - 63.1	55	51.9*	Fine	2.8
16-Jul-21	01:30	54.0	53.5	39.5 - 63.1	55	Measured Noise Level<Limit Level	Fine	0.9
23-Jul-21	00:27	56.3	53.5	39.5 - 63.1	55	53.1*	Fine	0.7
30-Jul-21	01:10	56.7	53.5	39.5 - 63.1	55	53.9*	Overcast	0.8
07-Aug-21	02:03	54.3	53.5	39.5 - 63.1	55	Measured Noise Level<Limit Level	Overcast	0.6
13-Aug-21	01:12	56.4	53.5	39.5 - 63.1	55	53.3*	Fine	0.8
20-Aug-21	00:22	55.2	53.5	39.5 - 63.1	55	50.3*	Fine	0.4
27-Aug-21	01:00	56.0	53.5	39.5 - 63.1	55	52.4*	Fine	0.6

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 11 Sheung Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	01:37	50.4	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.0
14-May-21	02:02	52.4	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
21-May-21	01:49	52.9	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
28-May-21	01:53	55.1	53.2	46.1 - 62.8	55	50.6*	Fine	0.3
04-Jun-21	01:28	51.9	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
11-Jun-21	01:53	55.1	53.2	46.1 - 62.8	55	50.6*	Fine	0.6
18-Jun-21	01:35	51.7	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
25-Jun-21	01:53	54.9	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.3
03-Jul-21	01:22	49.9	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.9
09-Jul-21	01:37	50.7	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
15-Jul-21	23:46	55.8	53.2	46.1 - 62.8	55	52.3*	Fine	0.9
23-Jul-21	01:27	55.8	53.2	46.1 - 62.8	55	52.4*	Fine	0.9
30-Jul-21	00:55	56.0	53.2	46.1 - 62.8	55	52.7*	Overcast	1.1
07-Aug-21	01:45	55.0	53.2	46.1 - 62.8	55	Measured Noise Level<Baseline	Overcast	0.6
13-Aug-21	00:54	54.8	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
20-Aug-21	00:48	53.2	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
27-Aug-21	00:50	54.2	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.3

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 13 Lek Yuen Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	00:17	55.4	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Fine	0.0
14-May-21	00:20	56.5	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Fine	0.4
21-May-21	00:21	59.1	57.3	45.4 - 72.5	55	54.4*	Fine	0.5
28-May-21	00:18	58.8	57.3	45.4 - 72.5	55	53.5*	Fine	0.6
04-Jun-21	00:01	55.3	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Fine	0.6
11-Jun-21	00:18	58.8	57.3	45.4 - 72.5	55	53.5*	Fine	0.9
18-Jun-21	00:08	54.7	57.3	45.4 - 72.5	55	Measured Noise Level<Limit Level	Fine	0.6
25-Jun-21	00:18	58.0	57.3	45.4 - 72.5	55	49.7*	Fine	1.8
03-Jul-21	00:03	55.2	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Fine	0.8
09-Jul-21	00:10	55.6	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Fine	0.4
16-Jul-21	01:42	58.9	57.3	45.4 - 72.5	55	53.8*	Fine	0.9
23-Jul-21	00:05	55.0	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Fine	0.6
30-Jul-21	01:30	59.2	57.3	45.4 - 72.5	55	54.6*	Overcast	0.7
07-Aug-21	00:19	56.2	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Overcast	0.9
13-Aug-21	01:40	59.2	57.3	45.4 - 72.5	55	54.7*	Fine	0.7
20-Aug-21	00:08	54.5	57.3	45.4 - 72.5	55	Measured Noise Level<Limit Level	Fine	0.5
27-Aug-21	01:18	55.8	57.3	45.4 - 72.5	55	Measured Noise Level<Baseline	Fine	0.4

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 14 Sheung Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	01:46	53.4	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.4
14-May-21	01:45	56.0	54.1	46.1 - 62.8	55	51.5*	Fine	0.3
21-May-21	01:52	57.6	54.1	46.1 - 62.8	55	55.0*	Fine	0.5
28-May-21	01:50	56.2	54.1	46.1 - 62.8	55	52.0*	Fine	0.5
04-Jun-21	01:50	55.1	54.1	46.1 - 62.8	55	48.2*	Fine	0.5
11-Jun-21	01:50	55.8	54.1	46.1 - 62.8	55	50.9*	Fine	0.6
18-Jun-21	01:52	56.5	54.1	46.1 - 62.8	55	52.8*	Fine	0.6
25-Jun-21	00:22	57.3	54.1	46.1 - 62.8	55	54.5*	Fine	1.6
03-Jul-21	02:30	55.0	54.1	46.1 - 62.8	55	47.9*	Fine	0.7
08-Jul-21	01:09	57.1	54.1	46.1 - 62.8	55	54.1*	Fine	1.9
16-Jul-21	00:09	54.9	54.1	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	1.2
22-Jul-21	01:09	55.4	54.1	46.1 - 62.8	55	49.4*	Fine	0.6
29-Jul-21	01:15	56.2	54.1	46.1 - 62.8	55	52.0*	Overcast	1.2
07-Aug-21	00:42	56.5	54.1	46.1 - 62.8	55	52.8*	Overcast	0.8
13-Aug-21	01:15	56.4	54.1	46.1 - 62.8	55	52.5*	Fine	0.9
19-Aug-21	23:00	56.5	54.1	46.1 - 62.8	55	52.8*	Fine	0.7
27-Aug-21	01:09	56.2	54.1	46.1 - 62.8	55	52.0*	Fine	0.5

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 15 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	01:18	59.4	58.8	48.4 - 69.7	55	50.5*	Fine	0.0
14-May-21	01:37	58.9	58.8	48.4 - 69.7	55	42.5*	Fine	0.3
21-May-21	01:28	58.1	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.5
28-May-21	01:38	57.0	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.5
04-Jun-21	01:08	56.9	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.5
11-Jun-21	01:33	57.5	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.6
18-Jun-21	01:12	56.4	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.5
25-Jun-21	01:33	59.5	58.8	48.4 - 69.7	55	51.2*	Fine	1.6
03-Jul-21	01:03	56.8	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.8
09-Jul-21	01:14	56.7	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.8
16-Jul-21	00:31	58.6	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	1.3
23-Jul-21	01:06	54.6	58.8	48.4 - 69.7	55	Measured Noise Level<Limit Level	Fine	1.0
30-Jul-21	01:38	58.5	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Overcast	0.5
07-Aug-21	01:25	56.2	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Overcast	0.4
13-Aug-21	01:38	58.5	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.6
20-Aug-21	00:08	53.4	58.8	48.4 - 69.7	55	Measured Noise Level<Limit Level	Fine	0.9
27-Aug-21	01:32	58.5	58.8	48.4 - 69.7	55	Measured Noise Level<Baseline	Fine	0.5

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[\left(10^{\frac{\text{Measured noise level, } L_{eq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 16 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	01:21	55.4	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.4
14-May-21	01:20	59.0	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.3
21-May-21	01:26	58.6	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.5
28-May-21	01:23	59.3	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.5
04-Jun-21	01:30	58.0	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.5
11-Jun-21	01:29	57.8	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.6
18-Jun-21	01:30	58.1	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.6
25-Jun-21	00:57	57.2	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.5
03-Jul-21	01:26	58.6	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.8
09-Jul-21	01:29	56.5	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.6
16-Jul-21	00:50	60.1	60.1	51.4 - 69.5	55	Measured Noise Level=Baseline	Fine	0.9
23-Jul-21	01:28	57.6	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.7
30-Jul-21	01:58	58.9	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Overcast	0.8
07-Aug-21	01:02	60.0	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Overcast	1.3
13-Aug-21	01:58	59.9	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	1.1
19-Aug-21	23:19	57.7	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.7
27-Aug-21	01:51	59.9	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.7

NMS 18 Ha Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	01:02	54.0	63.2	56.0 - 72.1	55	Measured Noise Level<Limit Level	Fine	0.4
14-May-21	01:01	57.4	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.3
21-May-21	01:08	59.2	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.5
28-May-21	01:06	59.6	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.5
04-Jun-21	01:12	58.2	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.5
11-Jun-21	01:11	56.3	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.7
18-Jun-21	01:12	58.9	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.6
25-Jun-21	00:41	58.2	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.6
03-Jul-21	02:10	59.0	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.6
09-Jul-21	01:50	58.4	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	1.2
16-Jul-21	01:07	59.9	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	1.1
23-Jul-21	01:47	59.6	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.6
30-Jul-21	02:16	60.6	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Overcast	0.2
07-Aug-21	01:20	58.5	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Overcast	0.6
13-Aug-21	02:15	61.8	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.6
19-Aug-21	23:38	54.0	63.2	56.0 - 72.1	55	Measured Noise Level<Limit Level	Fine	0.6
27-Aug-21	02:10	58.0	63.2	56.0 - 72.1	55	Measured Noise Level<Baseline	Fine	0.2

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 19 Wo Che Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	00:39	60.3	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.0
14-May-21	00:44	61.6	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.2
21-May-21	00:47	62.1	61.7	53.8 - 72.8	55	51.5*	Fine	0.5
28-May-21	00:42	59.0	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.6
04-Jun-21	00:24	53.6	61.7	53.8 - 72.8	55	Measured Noise Level<Limit Level	Fine	0.5
11-Jun-21	00:41	59.7	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.6
18-Jun-21	00:28	56.6	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.5
25-Jun-21	00:41	61.7	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	2.1
03-Jul-21	00:24	59.7	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.7
09-Jul-21	00:35	58.9	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.0
16-Jul-21	02:00	59.0	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.8
23-Jul-21	00:28	60.1	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.9
30-Jul-21	02:10	60.4	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Overcast	1.1
07-Aug-21	00:44	60.0	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Overcast	0.5
13-Aug-21	02:00	61.9	61.7	53.8 - 72.8	55	48.4*	Fine	0.6
20-Aug-21	00:31	60.2	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.5
27-Aug-21	01:55	57.3	61.7	53.8 - 72.8	55	Measured Noise Level<Baseline	Fine	0.6

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 20 Wo Che Estate

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	00:58	54.7	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.0
14-May-21	01:05	54.8	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.3
21-May-21	01:05	59.0	57.7	48.6 - 71.7	55	53.1*	Fine	0.5
28-May-21	00:59	56.1	57.7	48.6 - 71.7	55	Measured Noise Level<Baseline	Fine	0.5
04-Jun-21	00:42	53.6	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.6
11-Jun-21	00:58	57.0	57.7	48.6 - 71.7	55	Measured Noise Level<Baseline	Fine	0.6
18-Jun-21	00:50	54.1	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.5
25-Jun-21	00:58	59.3	57.7	48.6 - 71.7	55	54.2*	Fine	0.8
03-Jul-21	00:42	53.7	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	1.2
09-Jul-21	00:55	53.5	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.0
16-Jul-21	02:19	58.8	57.7	48.6 - 71.7	55	52.3*	Fine	0.6
23-Jul-21	00:45	54.3	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.5
30-Jul-21	01:50	57.2	57.7	48.6 - 71.7	55	Measured Noise Level<Baseline	Overcast	0.4
07-Aug-21	01:03	54.9	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Overcast	0.4
13-Aug-21	02:20	56.0	57.7	48.6 - 71.7	55	Measured Noise Level<Baseline	Fine	0.4
20-Aug-21	00:50	54.3	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.8
27-Aug-21	01:37	52.3	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.6

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 23 Pai Tau

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	02:13	57.5	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.4
14-May-21	02:12	59.1	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.3
21-May-21	02:18	60.5	59.9	47.8 - 69.8	55	51.6*	Fine	0.5
28-May-21	02:16	59.5	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.5
04-Jun-21	02:22	60.1	59.9	47.8 - 69.8	55	46.6*	Fine	0.5
11-Jun-21	02:21	59.9	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.6
18-Jun-21	02:22	59.7	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.6
24-Jun-21	23:58	60.2	59.9	47.8 - 69.8	55	48.4*	Fine	0.5
03-Jul-21	03:10	59.1	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.8
09-Jul-21	02:05	59.0	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.4
15-Jul-21	23:05	57.2	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.8
23-Jul-21	00:48	59.6	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	1.1
30-Jul-21	00:18	58.7	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Overcast	0.4
07-Aug-21	00:22	60.2	59.9	47.8 - 69.8	55	48.4*	Overcast	0.3
13-Aug-21	00:15	58.3	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.7
20-Aug-21	02:13	58.3	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.7
27-Aug-21	00:13	60.0	59.9	47.8 - 69.8	55	43.6*	Fine	0.8

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

$$10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

NMS 24 Shatin Plaza

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
06-May-21	23:55	59.4	58.0	50.2 - 66.7	55	53.8*	Fine	0.0
13-May-21	23:45	55.6	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline	Fine	0.4
20-May-21	23:58	59.2	58.0	50.2 - 66.7	55	53.0*	Fine	0.5
27-May-21	23:43	58.2	58.0	50.2 - 66.7	55	44.7*	Fine	0.4
03-Jun-21	23:39	59.2	58.0	50.2 - 66.7	55	53.0*	Fine	0.6
10-Jun-21	23:42	57.9	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline	Fine	0.6
17-Jun-21	23:43	59.4	58.0	50.2 - 66.7	55	53.8*	Fine	0.6
24-Jun-21	23:43	57.8	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline	Fine	2.6
02-Jul-21	23:39	59.2	58.0	50.2 - 66.7	55	52.9*	Fine	1.2
08-Jul-21	23:41	57.9	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline	Fine	0.4
16-Jul-21	00:49	58.8	58.0	50.2 - 66.7	55	50.9*	Fine	0.7
22-Jul-21	23:43	58.9	58.0	50.2 - 66.7	55	51.6*	Fine	0.9
30-Jul-21	00:48	58.8	58.0	50.2 - 66.7	55	51.3*	Overcast	0.9
06-Aug-21	23:55	58.3	58.0	50.2 - 66.7	55	46.5*	Overcast	0.6
13-Aug-21	00:30	58.8	58.0	50.2 - 66.7	55	51.1*	Fine	0.4
19-Aug-21	23:39	58.5	58.0	50.2 - 66.7	55	48.9*	Fine	0.6
27-Aug-21	00:21	57.9	58.0	50.2 - 66.7	55	Measured Noise Level<Baseline	Fine	0.5

Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

NMS 25A Sheung Wo Che

Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	02:01	55.1	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.0
14-May-21	02:27	58.8	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.3
21-May-21	02:11	51.8	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.5
28-May-21	02:14	56.4	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.4
04-Jun-21	01:48	53.2	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.4
11-Jun-21	02:13	56.6	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.6
18-Jun-21	01:58	53.5	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.6
25-Jun-21	02:14	58.1	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.4
03-Jul-21	01:41	55.6	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.9
09-Jul-21	02:00	56.8	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.5
15-Jul-21	23:25	54.8	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.6
23-Jul-21	01:48	56.3	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.4
30-Jul-21	00:36	53.8	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Overcast	1.1
07-Aug-21	02:03	55.9	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Overcast	0.6
13-Aug-21	00:32	57.1	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.4
20-Aug-21	01:08	57.8	59.7	50.3 - 68.4	55	Measured Noise Level<Baseline	Fine	0.6
27-Aug-21	00:32	54.9	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.4

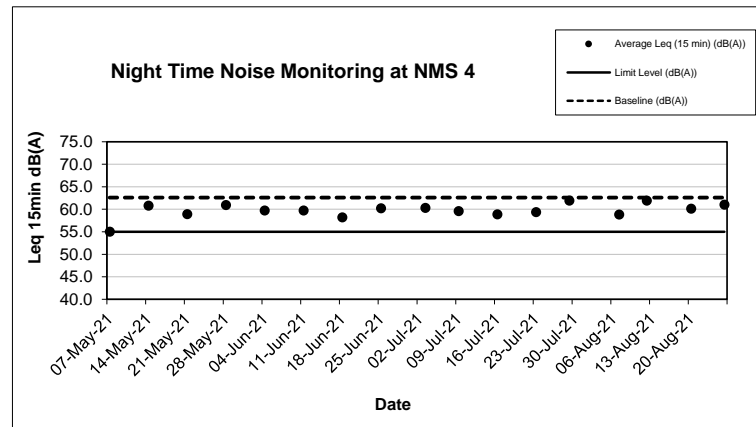
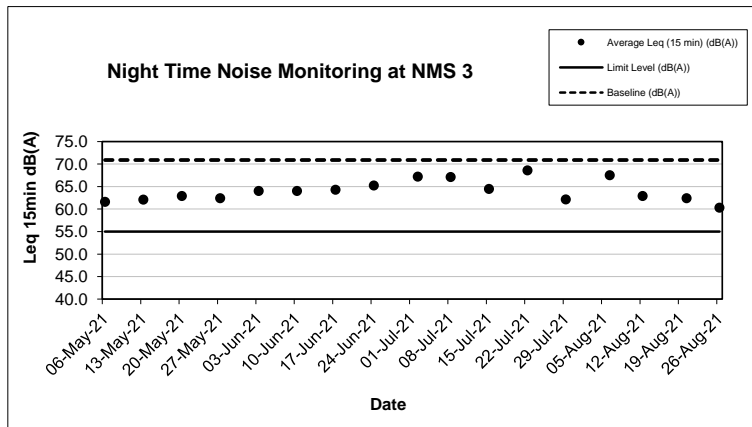
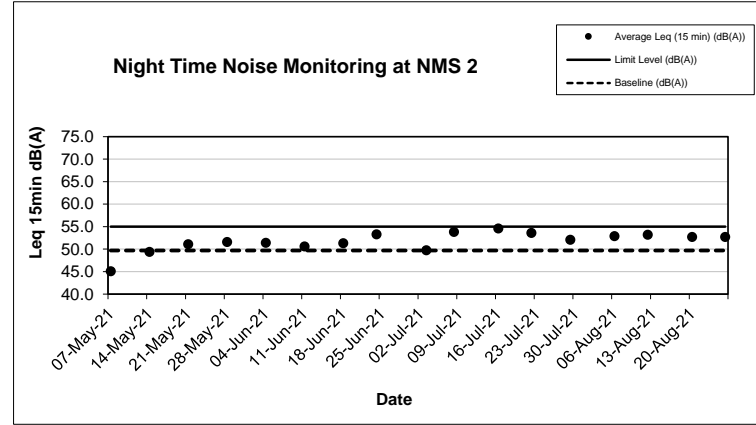
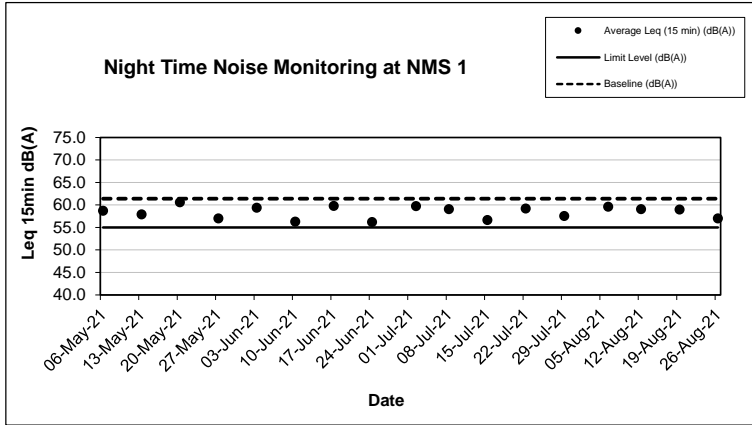
NMS 26 Wo Che Estate

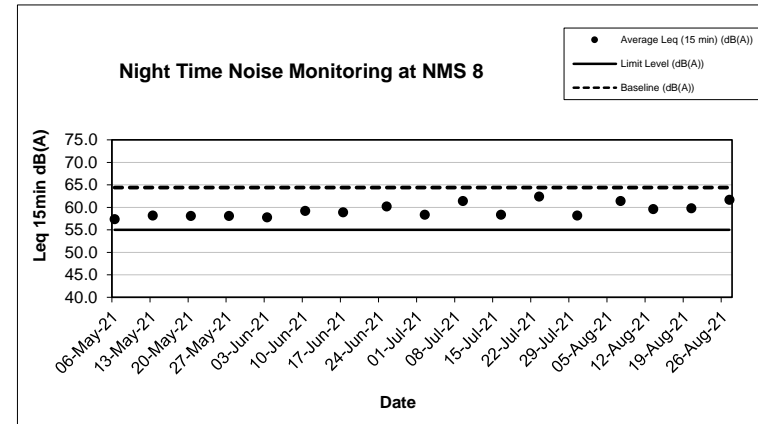
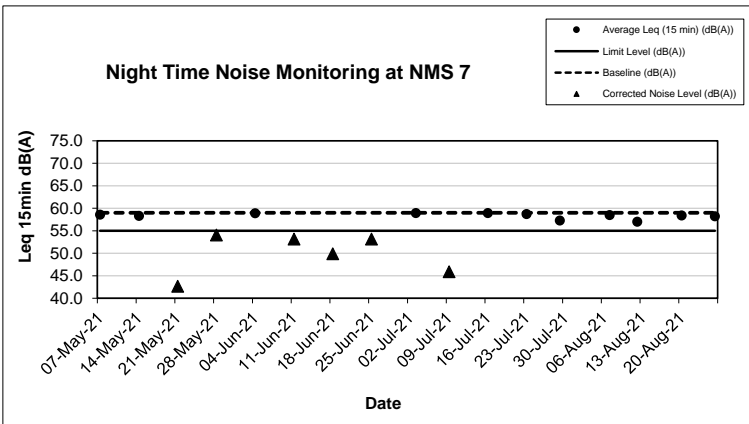
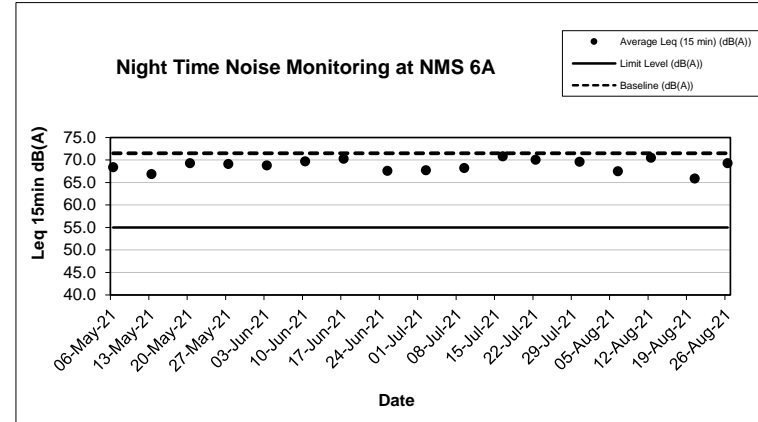
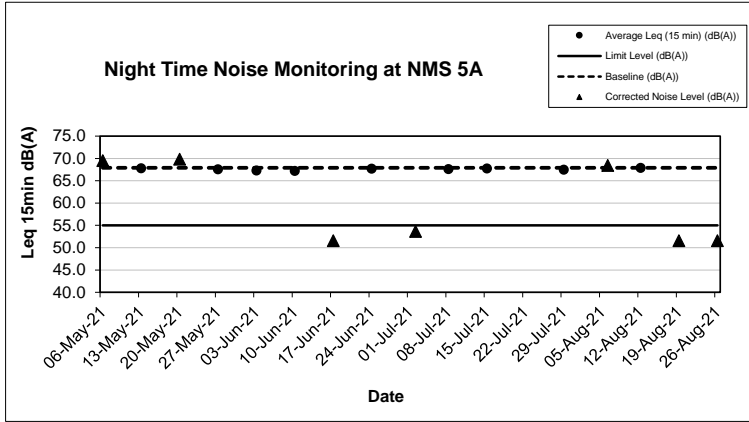
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
07-May-21	00:43	58.7	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.4
14-May-21	00:42	58.7	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.3
21-May-21	00:49	60.2	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.5
28-May-21	00:47	60.2	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.5
04-Jun-21	00:53	60.2	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.5
11-Jun-21	00:52	60.5	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.6
18-Jun-21	00:53	60.5	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.6
25-Jun-21	01:17	61.4	61.2	45.7 - 70.1	55	47.9*	Fine	0.8
03-Jul-21	00:58	61.6	61.2	45.7 - 70.1	55	50.9*	Fine	1.3
09-Jul-21	02:22	60.7	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.8
16-Jul-21	01:27	60.9	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.5
23-Jul-21	02:09	60.3	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.9
30-Jul-21	02:39	60.2	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Overcast	0.5
07-Aug-21	01:43	60.4	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Overcast	0.8
13-Aug-21	02:40	61.0	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.9
20-Aug-21	00:01	61.0	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.7
27-Aug-21	02:30	60.2	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.4

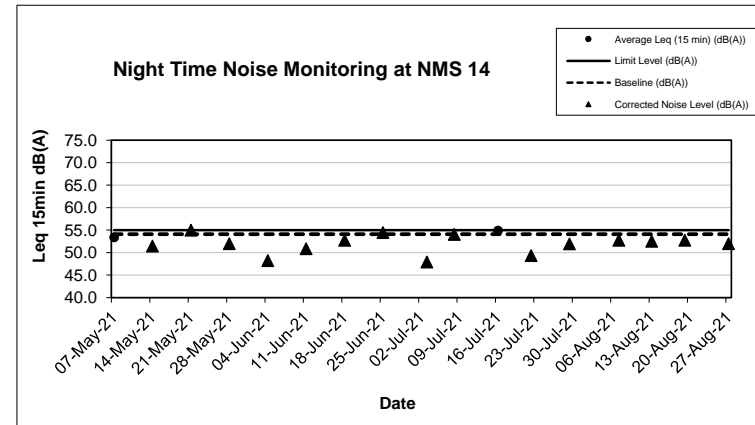
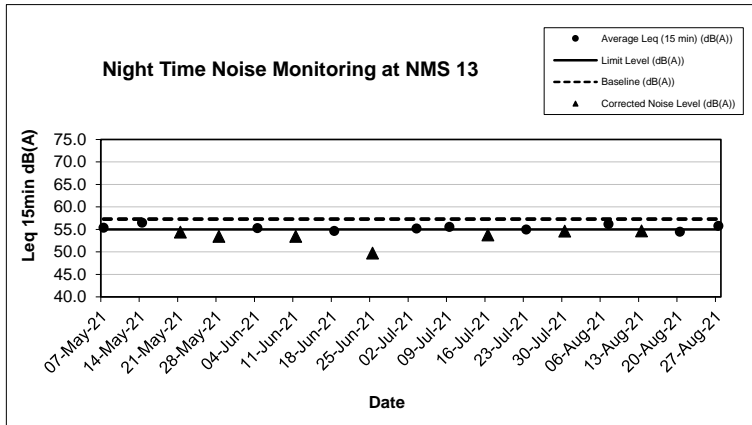
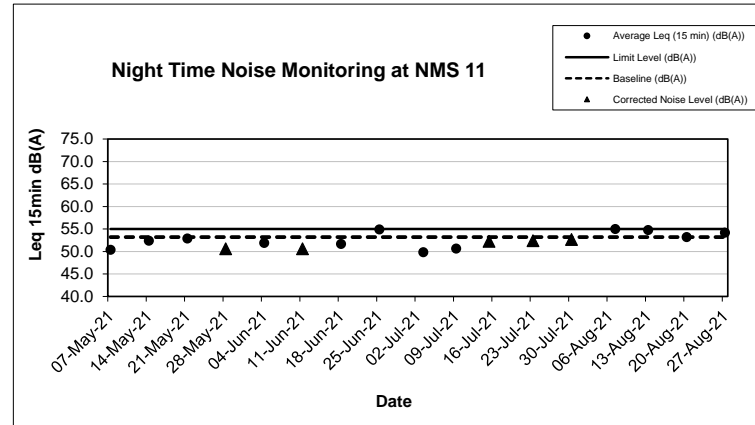
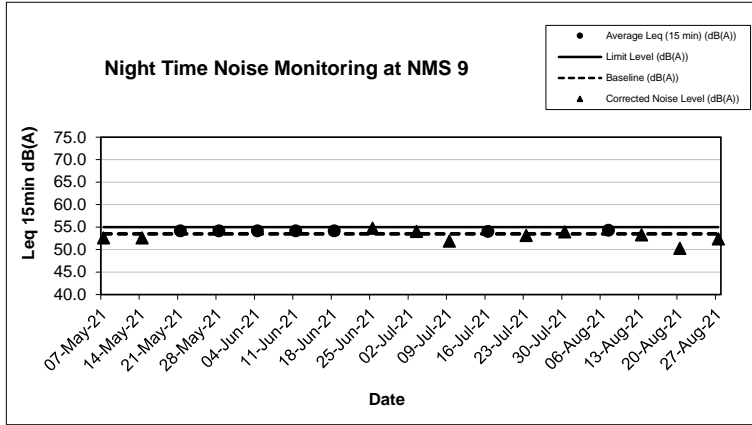
Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

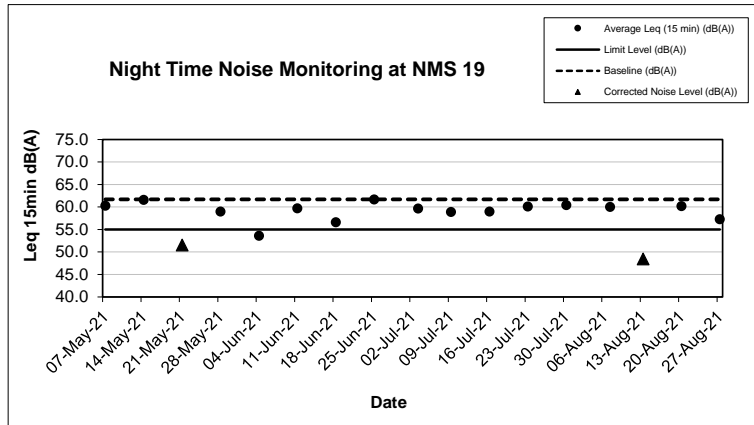
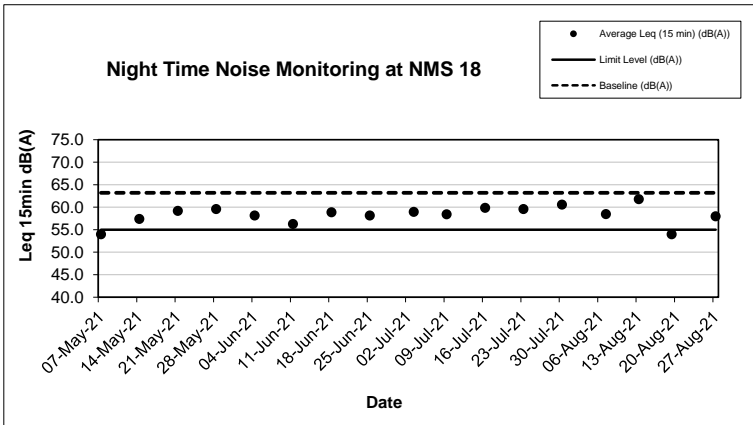
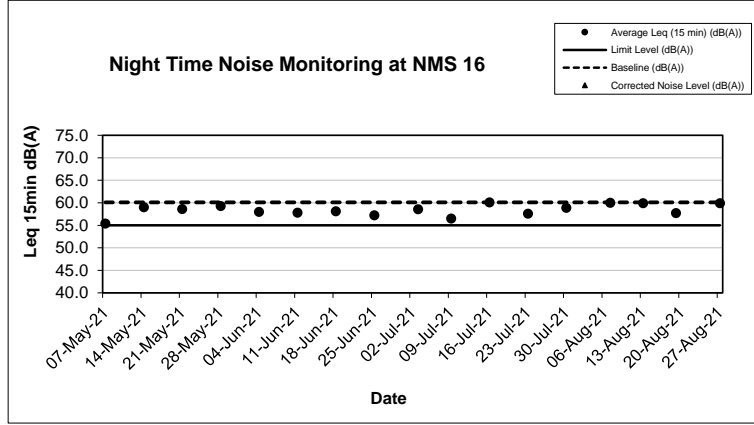
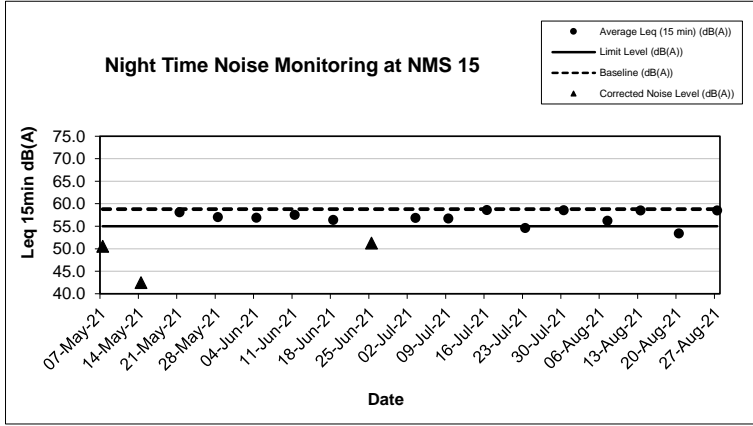
If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

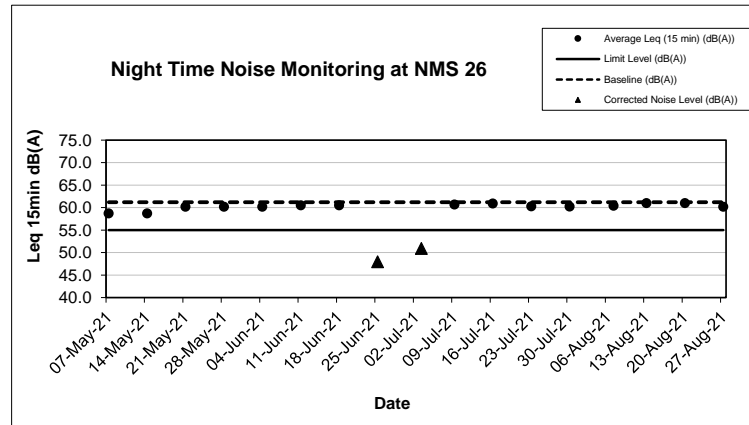
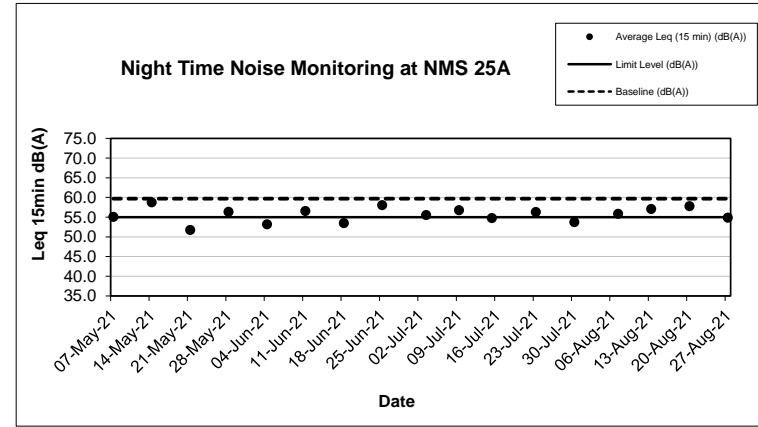
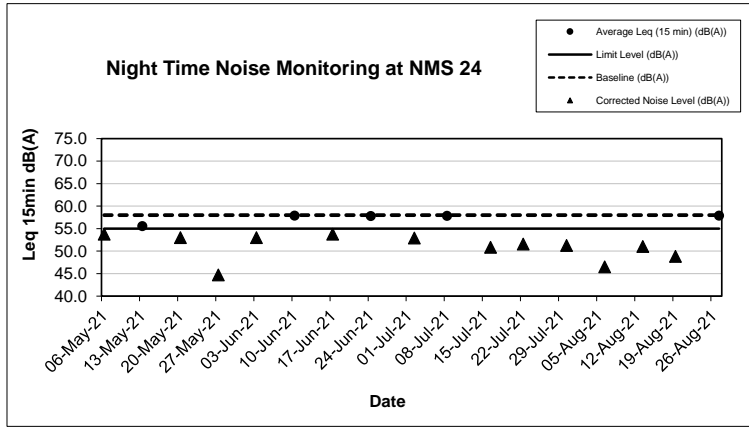
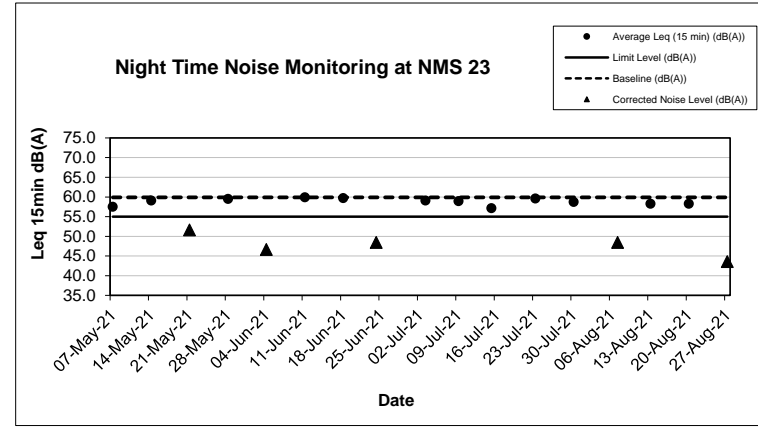
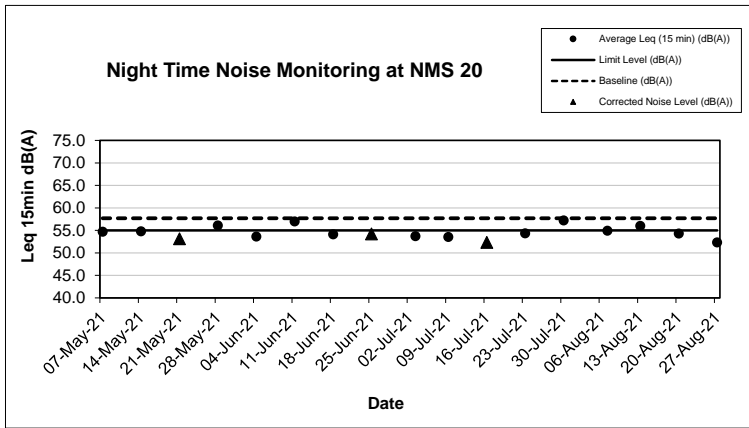
$$10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$











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Appendix E

Waste Flow Table

FUGRO TECHNICAL SERVICES LIMITED

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

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Waste Flow Table for Year 2019											
Months	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	Total Quantity Generated (T)	Hard Rock and Large Broken Concrete (A)	Reused in the Contract (B)	Reused in other Projects (C)	Disposed as Public Fill (D)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics ²	Chemical Waste	Others, e.g. general refuse
	(in '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2019 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021
2019 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.049
2019 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.048
2019 Apr	0.100	0.000	0.000	0.000	0.100	0.000	0.000	0.000	0.000	0.000	0.089
2019 May	0.150	0.000	0.000	0.000	0.150	0.000	0.000	0.000	0.000	0.000	0.175
2019 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082
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	0.712	0.000	0.223	0.000	0.489	0.297	0.000	0.000	0.000	0.000	0.046
2019 Oct	0.663	0.000	0.306	0.000	0.357	1.085	0.001	0.027	0.009	0.000	0.027
2019 Nov	1.154	0.000	0.143	0.000	1.011	0.428	0.000	0.019	0.000	0.000	0.095
2019 Dec	0.849	0.000	0.023	0.000	0.826	0.074	0.000	0.014	0.001	0.000	0.034
Total	4.200	0.000	0.916	0.000	3.284	1.884	0.001	0.060	0.010	0.000	0.889

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Waste Flow Table for Year 2020											
Monthly Ending	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	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 '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2020 Jan	0.584	0.000	0.027	0.000	0.557	0.040	0.001	0.030	0.001	0.000	0.039
2020 Feb	1.072	0.000	0.042	0.000	1.030	0.000	0.001	0.026	0.003	0.000	0.013
2020 Mar	0.422	0.000	0.006	0.000	0.416	0.062	0.000	0.000	0.000	0.000	0.054
2020 Apr	0.450	0.000	0.000	0.000	0.450	0.000	0.002	0.085	0.003	0.000	0.025
2020 May	1.144	0.000	0.000	0.000	1.144	0.319	0.001	0.021	0.005	0.000	0.027
2020 Jun	3.660	0.000	0.000	0.000	3.660	0.077	0.001	0.027	0.004	0.000	0.048
Sub-Total	7.332	0.000	0.075	0.000	7.257	0.498	0.006	0.189	0.016	0.000	0.206
2020 Jul	2.008	0.000	0.014	0.000	1.994	0.000	0.002	0.047	0.006	0.000	0.067
2020 Aug	2.215	0.000	0.018	0.000	2.197	0.000	0.001	0.040	0.006	0.000	0.014
2020 Sep	4.305	0.000	0.000	0.000	4.305	0.000	0.002	0.042	0.009	0.000	0.044
2020 Oct	3.073	0.000	0.002	0.000	3.071	0.000	0.001	0.019	0.005	0.000	0.029
2020 Nov	1.670	0.000	0.000	0.000	1.670	0.000	0.001	0.030	0.006	0.000	0.036
2020 Dec	3.498	0.000	0.000	0.000	3.498	0.000	24.751	0.036	0.006	0.000	0.042
Total	24.101	0.000	0.109	0.000	23.992	0.498	24.764	0.403	0.054	0.000	0.438

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Waste Flow Table for Year 2021

Monthly Ending	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Wastes Generated Monthly				
	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 '000Ton)	(in '000kg)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000Ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000Ton)
2021 Jan	3.196	0.000	0.000	0.000	3.196	0.000	0.001	0.048	0.855	0.000	0.053
2021 Feb	3.877	0.000	0.000	0.000	3.877	0.032	0.000	0.010	1.642	0.000	0.013
2021 Mar	7.348	0.000	0.000	0.000	7.348	0.000	0.001	0.215	0.004	0.000	0.050
2021 Apr	3.302	0.000	0.000	0.000	3.302	0.100	0.002	0.013	0.004	0.000	0.050
2021 May	2.315	0.000	0.150	0.000	2.165	0.024	0.001	0.008	0.005	0.000	0.106
2021 Jun	1.809	0.000	0.307	0.000	1.502	0.059	0.000	0.000	0.000	0.000	0.029
Sub-Total	21.847	0.000	0.457	0.000	21.390	0.215	0.005	0.294	2.510	0.000	0.301
2021 Jul	2.693	0.000	0.000	0.000	2.674	0.262	0.003	0.011	0.007	0.000	0.119
2021 Aug	3.088	0.000	0.000	0.000	3.088	0.095	0.002	0.007	0.011	0.000	0.071
2021 Sep											
2021 Oct											
2021 Nov											
2021 Dec											
Total	27.628	0.000	0.476	0.000	27.152	0.572	0.010	0.312	2.528	0.000	0.491

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	2/2/2019	EPD	Noise	According to the photo taken from the complainant, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for reducing the noise impact. Environmental Team conducted additional ad-hoc noise monitoring on 19:00 14th February 2019 to 07:00 15 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	Noise	According to the location of complainant from Kwai Wo House, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. An extended barrier at the top acts as a cantilever shape 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.	Project-related	Closed
COM-2019-0010	28/3/2019	Project Hotline of NE/2017/05	Noise.	The complaint case should be related to the MTR night time maintenance works. Main Contractor used portable phones and head-set only for communication, and none of loudspeakers were allowed to be used. Main Contractor handled of tree debris into the lorry skip in care when loading. Besides, a layer of soft material (soil/tree debris) was observed leaving inside the skip of the grab lorry to reduce the loading noise. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0132-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during	Project-not related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				restricted hour.		
COM-2019-0033	26/7/2019	Police visit on-site	Noise	The complaint is related to the project. The Main Contractor comply with CNP No.: GW-RN0443-19 allowable construction site and within the site boundary to carry out night work on tree felling and the clearance of felled tree debris during the restricted hour. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0443-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for reducing the noise impact. Contractor was reminded to reschedule of tree felling arrangement that most of the fell branches and trunks were temporary laid on slope and arranged to cut smaller on Day Time to minimize the noise nuisance to the nearby NSRs.	Project-not related	Closed
COM-2019-0045	30/8/2019	1823	Noise	The complaint is related to the project. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0443-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor should strictly follow the use of acoustic enclosure as in condition 3.d.5. of the CNP during the operation of breaker, hand-held, mass ≤ 10 kg (CNP023) shall only be operated inside the acoustic enclosure composed of four side-panels and one top-panel, so that no part of such equipment is visible from any nearby noise sensitive receiver. The panels shall be made of minimum 10mm thick plywood or 1mm thick steel outer skin and minimum 50mm thick sound absorbing lining, or equivalent construction. Contractor was reminded to use portable phones and head-set only for communication, and none of loudspeakers is allowed for night work activities.	Project-related	Closed
COM-2019-0056	9/10/2019	Project Hotline of NE/2017/05 and EPD	Noise	The complaint of the construction noise especially the breaker noise is project related. Due to the concern of road safety, the Contractor conducted the emergency road repair works under an Emergency Excavation Permit (EXP) of Plan ID: EO13123 issued by Highways Department (HyD). The main contractor's PR / hotline staff was reminded to enhance communication with sufficient information provided for replying any enquiry / complaint in the future. The main contractor was also reminded that noise mitigation measures should be provided as far as practicable subject to the emergency situation. For construction works	Project-related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				covered by the CNP issued by EPD, the main contractor should fully complied with the conditions as stipulated and provided all noise mitigation measures as required under the conditions of the CNP. For works subject to the emergency situation, noise mitigation measures such as noise barrier, enclosure etc. should be provided as far as practicable to minimise the noise nuisance to the NSRs.		
COM-2019-0057	9/10/2019	EPD	Noise	The complaint of the generator noise nuisance is related to the project. The concerned portable generator is supplying electric power for the Variable Message Sign (VMS) showing the speed limit in 50 km/hr. It is switched on and off manually by manpower, and would only be operated between daytime 07:00-19:00. No construction noise permit (CNP) should be required as the portable generator is not operating in restricted hours. The main contractor was reminded to strictly follow the use of their proposed semi-enclosure as the mitigation measures for the portable generator and the generator operates in daytime 07:00-19:00 only.	Project-related	Closed
COM-2019-0066	6/11/2019	EPD	Noise	The complaint of the emergency road repair work is related to the project. The works on on 5 th November 2019 between 22:00 and 06:00 the next day at southbound slow lane of Tai Po Road outside Wai Wah Centre, including breaking operation. The main contractor should inform the EPD in advance of any emergency opening works of the Project in future to facilitate the effective handling of noise complaint that may arise.	Project-related	Closed
COM-2020-0083	29/02/2020	Project email of NE/2017/05	Noise and Dust	The complaint of the dust and noise nuisance near Wai Wah Centre during both the day and night works was at zone 2. Contractor was reminded to enhance the water spray frequency on the construction site for mitigation measures on dust control. Also, Contractor should provide green tarpaulin curtain and additional acoustic Sound Proof Canvas as a secondary layer at the bottom of the mini-pile drilling machine to secure the total enclose condition to minimize the visual and noise impacts to nearby NSRs.	Project-not related	Closed
COM-2020-0089	24/03/2020	Project hotline	Noise	A resident of Wai Wah Centre complained that noise generated from construction activities at night disturbing the nearby resident. Loading/unloading, steel bar cutting, steel plate grinding and asphalt compaction were carried out in the early hours of 24 th Mar 2020. The night work activities were within the site boundary. Also, 4 sides with top cover acoustic enclosure for	Project-not related	Closed

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				the portable generator was used during the night work. Furthermore, mitigation measures listed in the CNP were implemented for PMEs and works activities. Three sides with top cover enclosure and additional acoustic comprised with 50 mm sound absorbing lining were used for night works activities.		
COM-2020-0090	27/03/2020	Project hotline	Noise	Both complaint cases were concerning about the noise nuisance generated from the construction work activities at night time disturbing the nearby Wai Wah Centre residence. According to the Main Contractor, similar nature of major construction works carried out between 03:00 a.m. and 04:00 a.m. on 27th & 28th March 2020 was the asphalt compaction for the road surface remedial works at zone 2 south lane adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0002-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. ET conduct regular night-time noise monitoring at all monitoring stations between 23:00 26 th March 2020 to 04:00 27 th March 2020, and between 23:00 2 nd April 2020 to 04:00 3 rd April respectively. No exceedance cases were found on both ET regular night-time noise monitoring measurement. ET did not remark on-site any noise related to construction works at above noise monitoring nights for which the results were lower than baseline noise level.	Project-not related	Closed
COM-2020-0091	28/03/2020					
COM-2020-0093	06/04/2020	Project hotline	Noise	The complaint case on 6 th Apr was received by project hotline. The major construction works between (10:00pm – 11:00pm) on 6 th April 2020 was TTA implementation works and asphalt removal works for the road surface remedial work at zone 2 adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. The night time noise monitoring results measured at NMS3, 4 & 6A were all lower than that of measured in the baseline, two exceedance case were found at NMS 5A especially NMS	Project-not related	Closed

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				5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The corrected noise level measured at NMS 7 is lower than the night time limit 55dB (A). Therefore, there was no exceedance cases were found on ET regular night-time noise monitoring measurement.		
COM-2020-0096	20/04/2020	Project hotline	Noise	<p>A continues complaint were received on 20 Apr and 21 Apr 2020. A resident of Wai Wah Centre filed three complaints about the noise nuisance generated by the nearby construction activities during daytime. Two complaints were made through project hotline on 20th Apr 2020 at 10:57 a.m. and 21st Apr 2020 at 9:03 a.m., while the other one was through project email on 20th Apr 2020 at 12:43 p.m. The noise source(s) of the concerned nuisance during complaint period should be mini piling works, which is opposite to Wai Wah Centre.</p> <p>According to the contractor's work schedule, major day work activity was mini-piling operation since early Feb 2020 at zone 2 in central median at non-restricted hours, from Mondays to Saturdays between 0800 and 1800 not including General Holidays. The mini piling operation on 20th & 21st Apr 2020 was carried out at non restricted hours. The limited level of noise generated by the construction of the Project during the non-restricted daytime hours will be 75 dB (A) for dwelling. The mini piling operation on 20th and 21st Apr 2020 was carried out at non restricted hours with green tarpaulin curtain and sound proof canvas. The noise level of NMS 5A and NMS 6A on 22nd Apr 2020 were 73.5 dB (A) and 72.6 dB (A) respectively. No noise exceedance was occurred at NMS 5A and NMS 6A. The construction activity on 22nd Apr 2020 was similar to 20th and 21st Apr 2020. Therefore, ET's day-time monitoring result on 22nd April 2020 at NMS5A and NMS6A can act as a reference for impact noise from the similar mini-piling operation on 20th and 21st April 2020.</p>	Project-not related	Closed
COM-2020-0097	20/04/2020	Project Email				
COM-2020-0098	21/04/2020	Project hotline				

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COM-2020-0099	21/04/2020	Project hotline	Noise	The complaint cases on 21 st Apr 2020 was received by project hotline from Police. According to the complainant who is the local resident at Wai Wah Centre, the noise source(s) of the concerned nuisance during night works was at zone 2 is opposite to Wai Wah Centre. The major construction works was road surface remedial work since 15 th April 2020 conducted at restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 23 rd April 2020 to 04:00 24 th April 2020. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. There were no exceedance on the night time noise monitoring, especially measured at NMS 5A & NMS 6A where locate at the Wai Wah Centre, the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. Therefore, no exceedance cases were found on ET regular night-time noise monitoring measurement.	Project-not related	Closed
COM-2020-0100	23/04/2020	Project hotline	Noise	The complaint was received via project hotline on 23 rd April 2020 at 10:45 a.m. A resident of Wai Wah Centre complained that noise generated from operation of the two piling machines disturbing her daughter's study for DSE examination, and demanding limitation on operation hours of the machines only at two separate periods between 12 noon and 1p.m and 3 p.m. to 6 p.m. According to the Main Contractor, the major construction works at day time (08:00-18:00) on 23 rd April 2020 was mini-piling operation at Zone 2 Central Median of Tai Po Road near Wai Wah Centre. According to the	Project-not related	Closed

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				photo records of day-time site condition on 23rd April 2020 provided by Main Contractor, the green tarpaulin curtain was provided for the mini-pile drilling machines so that the bottom part of the mini-pile drilling machine was blocked from view of nearby NSR (e.g. residents at Wai Wah Centre) and an additional layer of sound proof canvas was installed at lower level to mitigate the noise from mini-pile drilling operation. The day-time noise monitoring results measured at NMS3, 4, 5A, 6A and 7 were all lower than the limit level, especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The monitoring results show no noise exceedance occurred at both locations. Thus, ET day-time monitoring result on 22 nd April 2020 at NMS5 & NMS6 can be act as a reference for impact noise from the similar mini-piling operation activities on 23 rd April 2020. Therefore, there was no exceedance cases were found in ET regular day-time noise monitoring measurement.		
COM-2020-0101	28/04/2020	1823 (CASE#3-6316759817)	Noise	The complainant on via ICC1823 on 28 th April 2020 complained about the noise and odor nuisance generated from the night-time asphalt laying construction works at Shatin Rural Committee Road (Zone 3) area. Although the main contractor no work at zone 3, but the major night-time construction works was road surface remedial work which was related to the complainant concerned. The major construction works was road surface remedial work since 15 th April 2020 at approved restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. Also, Tai Po Road is the main strategic route, implementation of temporary traffic diversion at day time due to loading and unloading material or plant work or road surface remedial work is not feasible. The lorry had been used in TTA implementation & road opening, portable generator and electric handheld breaker had been used in asphalt removal work, dump truck with grab had been used for loading and unloading of asphalt or rubble, vibratory compactor had been used in asphalt compaction for road	Project-not related	Closed

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				surface remedial works on 27^28 April 2020. The Main Contractor complied with CNP No.: GW-RN0152-20 that allowed PME used in Group C or Group F. According to the Main Contractor, advance "Notice to Affected Residents" had been issued and distributed on 26 th March 2020 in accordance with the CNP advice that prior notification should be given to nearby residents. Besides, the road re-surfacing work would be carried out at approximately 14 night-time works between 2 nd and 28 th April 2020 listed in the distributed notices. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at NMS 5A & NMS 6A where locate close to the works area (Wai Wah Centre in Zone 2), the measured result at NMS 5A & 6A were all lower than that of measured in the baseline.		
COM-2020-0151	10/11/2020	EPD (EPD ref.: RN25799-20)	Water	The complainant on 10 th November 2020 complained about water discharge onto the traffic lanes of Northbound towards Sha Tin Section of Tai Po Highway. According to the Main Contractor, there is one active site access located at Zone 1 (R1) near Pai Tau, site access no. is N02. Restricted opening hours of the site access Zone 1 (R1) is between 10:00 to 16:00. The operation which might be related to the complaint was water flow from water-filled barriers before the opening of site access and no water spilling onto the traffic lanes from the access area of Zone 1 (R1). The released water was directed towards to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road or traffic lanes. ET conducted ad-hoc site inspection on 17 th November 2020. ET had no particular findings related to the complaint and conducted trial to open the bottom of the water barrier valve for testing and checking on the water flow to the construction site at Zone 1. Contractor performed well on environmental preventive measures for soil or silt leakage protection as impervious sheet with sand bags had been	Project-not related	Closed

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				provided at the site boundary of Zone 3. ET analyzed that released water was directed towards to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road or traffic lanes.		
COM-2020-153	20/11/2020	1823 (CASE#3-656139346 5)	Noise	The complainant on via ICC1823 on 20 th November 2020 complained about the noise generated from the night-time asphalt laying construction works between Sha Tin Station and nearby Wo Che Estate. Although the main contractor no work at zone 5, but the major night-time construction works was road surface remedial work which was related to the complainant concerned. According to the Main Contractor, the major construction works was road surface remedial work since 19 th November 2020 conducted at restricted hours along zone 3 to zone 4 north bound of Tai Po Road Sha Tin section. No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix F) at all noise monitoring stations. Contractor placed acoustic enclosure "SilentCUBE" with four sides and a top cover at asphalt removal works to mitigate. The Main Contractor was reminded to pay attention to CNP other condition 3.d.3, the electric hand-held breaker shall only be used for carrying out construction work between 22:00 – 23:30 hours. It is prohibited to use the electric hand-held breaker beyond the CNP condition 3.d.3 stated that the using limitation on 23:30. The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during 00:00 to 06:00 sleeping time.	Project related	Closed

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0064/18/ED/0546A	24/11/2020	EPD	Water	According to EPD Mr. Bryan Kwok, EPD carried out a site inspection on 24 November 2020, revealing that muddy effluent was discharged from an outfall at Fo Tan near Jockey Club Ti-I College while construction work of the abovementioned project site at Zone 5 opposite to Wo Che Estate was in progress. EPD team inspected the condition of waste water treatment facilities on site (slope F133) and observed that the water in the first and second sedimentation tanks was muddy; muddy water was observed at the outlet level of the Wetsep (waste water treatment plant) though there was no discharge and piling works at the time. EPD team reminded the Main Contractor that effluent does not comply with the discharge license standard should NOT be allowed to discharge. The waste water treatment system should be improved and maintained to ensure the effluent discharge standard. EPD team requested in both works area of Slope F133 and Slope F163 the Main Contractor to locate the network of drainage, connecting manhole(s) and downstream manhole, check if any presence of muddy materials and clear-out. The main contractor was reminded to strictly follow and fully comply with the water discharge license (WT00032446-2018) conditions and the mitigation measures stipulated in the EM&A Manual for effluent discharge on the wastewater treatment system.	Project related	Closed
COM-2020-154	27/11/2020	1823 (CASE#3-6561393465)	Noise	The complaint was received via ICC1823 on 27 th November 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate at around 01:14 am on 27 th November 2020. According to the Main Contractor, there were no construction works near Wo Che Estate (Zone 5) on 26 th and 27 th November 2020. The major construction works were works related to removal of central median (at night-time) under the approved road closure with CNP no. GW-RN0799-20. According to Main Contractor EO Kimberly, she sent prior notification to the EPD on 20 th November 2020 through logging in the webpage of EPD before the	Project Related	Closed

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				commencement of the construction work in relation to the CNP GW-RN0799-20 (conditions 3.d.11 and 4.d.8). The Main Contractor provided photo records showing that mitigation measures of the movable acoustic enclosure "SilentCUBE" with four sides and a top cover were implemented for night work on removal of existing central median: drill hole with percussive drill for temporary steel module spiral installation, drill hole at existing central median with concrete corer and asphalt compaction with portable roller. Main Contractor was reminded to strictly follow and fully comply with the CNP No.: GW-RN0799-20 conditions. 5.11. The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during 00:00 to 06:00 sleeping time.		
COM-2020-155	30/11/2020	1823 (CASE#3-6566315922)	Dust	<p>According to the complainant, the dust nuisance concerned at day time was at the slip road to Fo Tan Road near Lok King Street near Zone 5 works area. According to the Main Contractor, the major day time construction works at Zone 5 works area in November were mini-piling works and slope works of soil replacement. Regular movement of vehicle for transportation was also carried out on site. Thus, the complaint was considered to be related to the project. ET conducted regular day-time air quality monitoring in November 2020 and on the 3rd December 2020 at selected air monitoring stations AMS6, 8, 11A & 13 and AMS5, 4A, 7A & 12 respectively.</p> <p>The two air quality monitoring stations closed to the works area at zone 5 (where the complainant concerned of dust nuisance) were AMS12 and AM13; and AMS13 locate nearest to Zone 5. The ET regular air quality results measured at AMS13 and AM12 in November 2020 and on the 3rd December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action</p>	Project Related	Closed

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				level. The Main Contractor was reminded to enhance the mitigation measures in dust control such as increase the water spray frequency at the construction site to suppress dust emission. The Main Contractor proposed to properly maintain the coverings on exposed slopes and keep them in good condition for minimizing dust impact. The Main Contractor proposed to frequently spraying of haul road especially at area where active movement of vehicles and pave the haul road where necessary to reduce dust impact.		
COM-2020-157	07/12/2020	STDC	Dust	According to the complainant, the dust nuisance concerned at day time was generated from the construction works area of the Tai Po Road Widening project at Zone 5. According to the Main Contractor, major day time construction works of mini-piling and soil replacement at slopes were carried out at Zone 5 works area in December 2020. There was also regular movement of vehicle for transportation within the works area. Thus, the complaint was considered to be related to the project. ET conducted regular day-time air quality monitoring on the 3rd, 9th & 15th December 2020 respectively which was close to the date of complaint, at selected air monitoring stations AMS5, AMS4A, AMS7A & AMS12. ET regular day-time air quality monitoring measurement results at air quality monitoring stations AMS12, closest to Zone 5. The ET regular air quality results measured at AM12 on 3rd, 9th & 15th December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action level. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to reduce dust impact. The Main Contractor proposed to continue in maintaining the coverings on exposed slopes in good condition for minimizing dust impact. The Main Contractor proposed to increase water spraying at area where active movements of vehicle transportation occur.	Project Related	Closed

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COM-2020-161	18/12/2021	EPD	Noise	The complaint was received via email notification by EPD on 18th December 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate during night-time on 7 th & 8 th December 2020. According to the Main Contractor, the major construction works was removal of central median works since 7 th & 8 th December 2020 conducted at restricted hours along Zone 4 central median of Tai Po Road Sha Tin section. Thus, the complaint is considered to be related to the project. According to the Main Contractor, portable generator with hand-held breaker had been used for breaking of asphalt (on existing central median edge); lorry with crane, portable generator and concrete corer had been used for remove (lifting) the existing central median and coring of central median joint; dump truck with grab had been used for loading and unloading of rubble; portable roller had been used in asphalt compaction; lorry with crane, percussive and hand-held drill and portable generator had been used for installation of temporary steel module between 00:30 to 04:30 am on 7 th December 2020. The Main Contractor complied with CNP No.: GW-RN0799-20 that allowed the usage of PMEs. The noise emanated from the concrete corer for drilling hole at existing central median and portable roller for asphalt compaction might cause a noise nuisance. To further alleviate the noise nuisance, the Contractor placed acoustic enclosure "SilentCUBE" with four sides and a top cover at removal of existing central median and asphalt compaction works to mitigate as shown in the site condition photo record. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at six noise monitoring stations where locate close to the works area (Sha Tin station to nearby Fung Wo Estate in Zone 4), the measured result at NMS16, NMS18 and NMS26 were lower than that of measured in the baseline. Besides, the measured result after correction	Project Related	Closed

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				of baseline at NMS13, NMS14 and NMS15 were lower than that of the limit level. The Main Contractor was reminded to re-arrange their proposed night-time construction activities especially in quiet construction works to minimize the noise nuisance to nearby residences. The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during night sleeping time.		
COM-2020-167	22/02/2021	1823	Dust	A complainant who did not wish to disclose his identity called 1823 hotline on 22nd February 2021 regarding the dust nuisance at slip road to Fo Tan Road. A repetitive case with reference no. 3-6566315922 was referred to the Main Contractor of the captioned Project and ET on 23rd February 2021. According to the complainant, the dust nuisance concerned at day time was at the slip road to Fo Tan Road near Zone 5 works area. According to the Main Contractor, the major day time construction works at Zone 5 works area in February 2021 was mini-piling works. Regular movement of vehicle for transportation was also carried out on site. Thus, the complaint was considered to be related to the project. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to minimize the dust impact. The Main Contractor proposed to reduce the exposed surface by providing covers or paving (e.g. with cement grout) to the newly excavated slope.	Project Related	Closed
COM-2020-168	20/02/2021	1823	Noise	The complaint was received via 1823 on 20 th February 2021 01:00am concerning about the night-time construction works near Sha Tin Police Station at 19 [^] 20 February 2021. According to the Main Contractor, there was night-time construction works near Sha Tin Police Station (Zone 3 & 4) on 19 [^] 20 February 2021. The major construction works were lane shifting works conducted on 19 [^] 20 February 2021 at night-time under	Project-not related	Closed

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Reference No.	Date of Complaint Received	Received From	Nature of Complaint	Investigation/Mitigation Action	Outcome	Status
				approved road closure setup with in-force Construction Noise Permit (CNP) no.GW-RN0798-020. According to the Main Contractor, since Tai Po Road is the main strategic route, implementation of temporary traffic diversion at day time due to loading and unloading material or plant work or road surface remedial work is not feasible. The concerned night work could only be conducted during off-peak period at night time under temporary traffic diversion to avoid causing traffic congestion. According to the Main Contractor, no concurrent operation of Power Mechanical Equipment (PME) and idling were switched off during the loading and unloading of materials and rubble by manual handling of road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 25th February to 03:00 26th February 2021. The five noise monitoring stations close to the complaint receiving area of Zone 3 & 4 are NMS13, NMS14, NMS15, NMS16 & NMS26. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at five noise monitoring stations where locate close to the works area (near Sha Tin Police Station in Zone 3&4), the measured result at NMS15, NMS16 and NMS26 were lower than that of measured in the baseline. Besides, the measured result after correction of baseline at NMS13 and NMS14 were lower than that of the limit level in 55 dB(A). The Main Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0798-20) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during the restricted hour.		
COM-2021-0170	03/03/2021	1823	Dust and Noise	The complaint on 3rd March 2021 at 1:25 pm complained about the noise, dust nuisance generated and insufficient dust mitigation works during the night-time construction works near King Wo House and Wo Che Estate area. A repetitive case with reference no. 3-6638500887 was	Project Related	Closed

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				referred to the Main Contractor and ET of the captioned project on 4th March 2021. According to the Main Contractor, there was night time road works at King Wo House and Wo Che Estate (Zone 4 & 5) on 3rd March 2021. Thus, the complaint considered to be related to the project. According to ET investigation, the Main Contractor complied with the CNP No.: GW-RN0798-020, with the permission of using Powered Mechanical Equipment (PMEs). No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix G). The Main Contractor was reminded to close all the doors of the acoustic enclosure, included the "SilentCUBE" for hand-held breaker and metallic enclosure. Consider the dust nuisance, no exceedance cases were found on ET regular air quality monitoring measurement (Appendix F). According to the Main Contractor, vapour was emitted from the bottom of the miller, when the milled asphalt falling from the drop point of the conveyor belt to the dump truck container, fugitive dust was generated. The Main Contractor was reminded to enhance the water spray frequency and keep the road surface wet before milling as the mitigation measures on fugitive dust control.		
COM-2021-0172	03/03/2021	1823	Noise	The second complaint was received on 3rd March 2021 at 1:40 pm complained about the noise nuisance generated during the night-time construction works near Shatin Pui Ying College area. A repetitive case with reference no. 3-6638578830 was referred to the Main Contractor and ET on 8th March 2021. According to the main contractor, there was a night-construction activity near Shatin Pui Ying College and Wo Che Estate (Zone 4 & 5). Thus, the complaint considered to be related to the project. According to ET investigation, the Main Contractor complied with the CNP No.: GW-RN0798-020, with the allowed usage of PMEs. No exceedance cases were found on ET regular night-time noise monitoring measurement (Appendix G). The Main Contractor was reminded to	Project Related	Closed

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				strictly follow and fully comply with the CNP No.: GW-RN0798-20 conditions and the mitigation measures stipulated in the EM&A Manual when construction activities were operated during the restricted hour. The contractor was also reminded to use a movable noise barrier/blanket to block the line of sight from the engine or noise emission part to the nearby NSRs when using PMEs.		
COM-2021-0193	09/05/2021	1823	Noise	The complaint was first received on 6 th May 2021 at 9:27 a.m. via FEHD email. The complaint was then referred to 1823 case: 3-6727963845 on 9 th May 2021 at 2:52 p.m. A follow-up complaint was received on 11 th May 2021 at 8:20 a.m. The two complaints were referred from 1823 to CEDD on 14 th May 2021 at 6:26 p.m. The complaint cases was referred from AECOM to ET on 17 th May 2021 at 11:46 a.m. According to the Main Contractor, the major construction works at daytime (08:00-18:00) between 6 th to 11 th May 2021 near Mei Wo House were soil replacement works (involved excavation, loading and unloading of materials and pour the no fine concrete) at the works area 1 (between Wo Che Estate King Wo House and Shatin Pui Ying school) and demolition of existing central divider works (involved breaking, loading and unloading of materials) at the work area 2 (opposite to Wo Che Estate Man Wo House). The ET regular daytime noise monitoring measurement results of NMS16, NMS17, NMS18, NMS19, NMS20 & NMS26 on 6 th , 7 th , 12 th and 13 th May 2021, no exceedance case found. The noise monitoring results were lower than the noise limit of 75 dB(A) $L_{eq(30\text{ minutes})}$ at the facade of dwellings and 70 dB(A) $L_{eq(30\text{ minutes})}$ at the facades of schools (65 dB (A) during examinations). The Main Contractor installed an acoustic blanket, enclosed at the breaker to minimize the noise impacts to nearby NSRs. The Main Contractor was reminded to maintain the newly implemented noise mitigation measure during breaking works. The Main Contractor was reminded to provide additional mitigation measures to minimize the	Project Related	Closed

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				noise nuisance to the NSRs (similar to night-time construction works) during the construction works, for example moveable noise barrier or blanket to block the line of sight from the engine and noise emission parts to the nearby NSRs.		
COM-2021-0200 and COM-2021-0202	07/06/2021	1823	Noise	Ms. So, a resident of Wo Che Estate, Mei Wo House complained about the noise generated from the daytime construction work located outside Mei Wo House, the tunnel entrance (direction towards Fo Tan). Until 7 th June 2021, total six complaints were received via 1823 (case: 3-6727963845) from the same complainant. According to the Main Contractor's daytime working schedule from 12 th May to 7 th June 2021 at zone 5 were soil replacement works (involved excavation, loading and unloading of materials, pour the no fine concrete and formation of haul road) and demolition of existing central divider works (involved loading and unloading of materials, minor breaking and corning operation). According to CEDD, a reply was sent to Ms. So on 27 th May 2021. The Resident Site Staff (RSS) of AECOM contacted the complainant on 7 th June 2021 night to explain the detail of upcoming construction work and associated noise mitigation measures to minimize the construction noise arising from the concerned construction work. The complainant was also informed that she could contact the RSS directly if she had any further enquiry in future. ET conducted regular daytime noise monitoring at NMS16-20 and NMS26 monitoring stations on 6 th , 7 th , 12 th , 13 th , 17 th , 18 th , 24 th , 25 th of May and 4 th , 5 th , 10 th , 11 th of June 2021. No exceedance case was found and the noise monitoring results were lower than the noise limit of 75 dB(A) L_{eq} (30 minutes) at the facade of dwellings and 70 dB(A) L_{eq} (30 minutes) at the facades of schools (65 dB (A) during examinations). ET reminded the Main Contractor to implement additional mitigation measures to minimize the noise nuisance generated from daytime construction works to the nearby Noise Sensitive Receivers (NSRs). The	Project Related	Closed

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				Main Contractor agreed to install an acoustic blanket, enclosed at the breaker to minimize the noise impact generated from the demolition of central divider works. The Main Contractor was reminded to maintain the noise mitigation measure during the breaking works. The Main Contractor was reminded to provide additional mitigation measures during the construction works to minimize the noise nuisance to the NSRs (similar to nighttime construction works), for example, a temporary moveable noise barrier to lower the noise impact and an acoustic blanket to block the line of sight from the engine and noise emission parts to the nearby NSRs. The Main Contractor was also reminded to display the project hotline number 5613-3367 on-site for public enquiry.		
EN-2021-0094	26/07/2021	EPD	Air (Odour)	<p>A resident of Paris Park Villa complained about the poor air quality around his living area between 19th and 26th July 2021. He suspected that the odour nuisance may be generated from the construction site's diesel machineries. The complaint was received by the EPD's Regional Office (North) on 26th July 2021 with reference no.: RN17367-21.</p> <p>According to the Main Contractor's daytime working schedule between 19th July and 26th July 2021 involved: (1) Zone 4 and 5 North boundary, the construction activities involved the formation of temporary access, backfilling works for noise barrier stem wall, loading and unloading works. Excavations were mainly performed in areas EX1 and EX2. (2) Zone 4 and 5 South boundaries, the construction activities involved the noise barrier foundation works and the formation of temporary access. Excavations were mainly performed in areas EX3 and EX4. While rebar fixing and formwork erection were also carried out in EX3 area. For area TW1 in Zone 5 South boundary, tree works were performed. There were no work activities carried out at night-time, Sunday and under the hosting of typhoon signals.</p> <p>According to AECOM's Resident Engineer and the Main Contractor, no</p>	Project Non-Related	Closed

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				<p>particular malpractice was observed during the construction activities at Zone 4 and 5 between 19th and 26th July 2021. According to the Main Contractor, only machineries with valid NRMM labels and regular maintenance are being used on-site. The Main Contractor sent the Ultra-Low Sulphur Diesel (ULSD) sample for laboratory testing since Feb 2019. There is no exceedance of the Sulphur content of more than 0.005% by weight in the past and the latest sample collected on 7th July (Cap. 311I Air Pollution Control (Fuel Restriction) Regulations).</p> <p>No particular finding on odour nuisance was found by the ET's staff when performing air monitoring in AMS 14 Ha Wo Che (close to 73A Ha Wo Che) on 21st and 22nd July 2021. ET also inspected the construction site on 29th July 2021 (between 9:00 to 10:15 a.m., weekly environmental inspection). There was no particular observation on odour nuisance or diesel smell generated from the Non-Road Mobile Machineries (NRMMs) and construction activities in the North and South boundary at Zone 4 and 5. No dark smoke was observed from the excavator, power generator, piling and pre-drilling machines under operation. ET inspected the area around Paris Park Villa and Ha Wo Che on 29th July 2021 between 10:30 a.m. to 11:30 a.m. There was no particular finding on odour nuisance in AMS14 Ha Wo Che (close to 73A Ha Wo Che).</p> <p>ET reminded the Main Contractor to strictly implement the air pollution control measures and minimize the air pollution impact generated from the construction work activities. The Main Contractor also is reminded that only approved or exempted NRMMs include regulated machines and non-road vehicles with proper labels are allowed to be used in specific activities on-site. The NRMMs should be well maintained. The Main Contractor was also be reminded that odour emissions from construction sites need to be controlled. Potential emission includes particulate matter, diesel and hazardous chemicals need to be considered for their</p>		

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				odour impact. Use of ULSD should be maintained and dark smoke emission should be prevented in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005. The Main Contractor was also be reminded to display the project hotline number 5613-3367 on-site for public enquiry.		

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Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints in the Reporting Period			Cumulative Project-to-Date
		June 2021	July 2021	August 2021	
Air	4	0	1	0	5
Noise	26	1	0	0	27
Water	2	0	0	0	2
Waste	0	0	0	0	0
Total	31*	0	0	0	33*

*The 1st complaint in March 2021 included both air and noise parameters, hence the total no. of complaints deducted by 1.

Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Reporting Period			Cumulative Project-to-Date
		June 2021	July 2021	August 2021	
Air	0	0	0	0	0
Noise	0	0	0	0	0
Water	0	0	0	0	0
Waste	0	0	0	0	0
Total	0	0	0	0	0

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Appendix G

Environmental Mitigation Implementation Schedule (EMIS)

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
<u>Noise Measures</u>				
3.10.2, 3.10.3, 3.10.14, 3.10.15 and Table 3.10	Within the boundaries of all construction sites.	• Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A)).	Contractor	Implemented
		• PME is recommended to operate in sub-grouping, and different sub-groups shall not be operated concurrently within any half hour period	Contractor	Implemented
		• The construction activities should be carried out in the daytime hours (0700 – 1900). Construction Noise Permit (CNP) for construction activities is required during evening or night time hours.	Contractor	Implemented
		• Construction work programme should be considered before actual construction work is undertaken, and noise mitigation measures should be implemented to minimize the potential construction noise impact. Selection and optimization of construction programmes, avoidance and reduction of parallel operation of noisy PME during noise sensitive periods.	Contractor	Implemented
		• Use of well-maintained and regularly-serviced plant during the works.	Contractor	Implemented
		• Plant operating on intermittent basis should be turned off or throttled down when not in active use.	Contractor	Implemented
		• Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs.	Contractor	Not Applicable
		• 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 and Table 3.3		• The use of particular plant with equipment quieter than those specified in the GW-TM are recommended to reduce the noise levels generated by the plant.	Contractor	Not Applicable
		• Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes	Contractor	Not Applicable
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	Implemented
		• The use of 3m high moveable barriers with skid footing and a small cantilevered upper portion should be adopted. The barrier material shall have a surface mass of not less than 14kg/m ² on skid footing with 25mm thick internal sound absorptive lining to achieve the maximum screening effect.	Contractor	Not Applicable

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• These temporary noise barriers should be located immediately adjacent to working area.	Contractor	Implemented
		• 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	Implemented
		• 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	Implemented
		• 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
3.10.3		• Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works;	Contractor	Not Applicable
		• 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 4.12.2	Within the boundaries of all construction sites.	• The Contractor shall notify any specific construction works as stated in the Air Pollution Control (Construction Dust) Regulation to the Authority before the commencement of such work. Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be implemented to control dust emissions from all construction work sites.	Contractor	Implemented
		• The Contractor shall undertake at all times to prevent dust nuisance as a result of his activities. Dust suppression measures such as the water spraying are necessary and should be installed to ensure that the air quality at the boundary of the site and at any sensitive receivers complies with the Hong Kong Air Quality Objectives.	Contractor	Implemented
		• The Contractor shall apply for a license or permit under the requirements of the relevant legislation (e.g. Air Pollution Control Ordinance and its subsidiary regulations) wherever applicable.	Contractor	Implemented
		• 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,	Contractor	Implemented

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		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.		
		• 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
4.12.1		• 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 Applicable
		• 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
		• 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	Partially Implemented
		• 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	Partially Implemented
		• If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas.	Contractor	Implemented
• Plant and vehicles shall be inspected annually to ensure that they are operating efficiently	Contractor	Implemented		

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground.		
4.12.1, 4.13.1 and Table 8.2		• Construction dust monitoring shall be carried out at representative monitoring locations during the construction period.	Contractor	Implemented
		• Path for complaints and handling procedures should be set up and implement.	Contractor	Implemented
NA		• Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005.	Contractor	Implemented
		• Plant and equipment should be well maintained to prevent dark smoke emission.	Contractor	Implemented
		• Only approved or exempted Non-road Mobile Machineries (NRMMS) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site.	Contractor	Partially Implemented
Water Quality Measures				
		• 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
		• Construction works should be programmed so as to minimise excavation during the wet season (April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm.	Contractor	Implemented
5.7	Within the boundaries of all construction sites.	• Existing and newly constructed open manholes should be covered and sealed to prevent run off and water borne debris entering the drainage network without having previously passed through a sediment trap.	Contractor	Implemented
		• Stock piles of construction materials, sand and gravel or excavated material should be covered with tarpaulins prior to rainstorms. The washing of material from the stockpiles directly into the storm drains should be prevented by passing the run off through a sediment trap.	Contractor	Partially Implemented
		• The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be	Contractor	Partially Implemented

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		constructed prior to the commencement of site formation and earthworks.		
		• 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	Partially 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	Partially Implemented
		• The water used for the washing down of mixing drums used for onsite batching of concrete and delivery lorries for off-site batched concrete should be recycled whenever possible. Wastewater generated from the washing which is discharged should be passed through a silt trap before discharge to the storm water system.	Contractor	Not Applicable
		• 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	Partially Implemented
		• 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	Implemented
		• 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	Contractor	Implemented

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Section 12.6 of the Approved EIA Report		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.		
		• 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
		• 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 with the recommended mitigation measures. Inspection should be included:		
		(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
		(iv) The pumping procedures for emptying trenches and other excavations and the use of silt traps prior to the discharge of the water to the storm water system.	Contractor	Implemented
		(v) The use of washwater for hosing down concrete mixing and delivery vehicles and other vehicles leaving the site and the routine of excess water from the facility through sediment traps.	Contractor	Implemented
		(vi) The operation of the plant maintenance areas to control small spillages and the correct management of the fuel storage bunded area.	Contractor	Implemented
(vii) The connection of the site office wastewater discharge to an existing foul sewer if appropriate or the operation of the kitchen wastewater grease trap and the regular emptying of the chemical toilets	Contractor	Implemented		
(viii) The operation of the roof rain water collection and drainage system.	Contractor	Implemented		
<i>Landscape and Visual Mitigation Measures</i>				
Table 6.5	Construction Phase			

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EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase	
	During construction within the Project Boundary.	• Existing trees shall be preserved as much as possible. Detailed tree preservation and transplanting proposals shall be submitted to relevant government departments for approval in accordance with DEVB TC (W) No. 7/2015.	Contractor	Implemented	
		• Topsoil will be conserved as far as possible during the road improvement works and utilized during the replanting operations. The stock piling height of the topsoil will not be more than 2m.	Contractor	Implemented	
		• Old and valuable trees (OVTs) identified in the Project Boundary shall be protected in accordance with ETWB TCW no. 29/2004.	Contractor	Implemented	
		• Night-time lighting glare shall be properly managed and control during construction so as to minimize any adverse visual impact on adjacent VSRs.	Contractor	Implemented	
		• Decorative screen hoarding with design compatible with the surrounding landscape setting shall be erected along the southern boundary of Tai Po Road to mitigate any potential adverse impact on adjacent Pedestrian and Cyclists on Footpath/Bicycle Track.	Contractor	Not Applicable	
	Operation Phase				
	During construction within the Project Boundary.	• 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.	Contractor	Not Applicable	
		• Planting shall be undertaken at the earliest practical time in the construction period. The planting proposal shall aim to strengthen the existing tree species and supplement the existing tree planting to provide an effective screen to ameliorate any potential landscape and visual impacts. The proposed species to be utilized for road improvement works shall be agreed with LCSD and future maintenance authorities. All the proposed species for compensatory planting shall be suitable for roadside streetscape planting.	Contractor	Not Applicable	
		• 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	

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		<ul style="list-style-type: none"> 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. 	Contractor	Not Applicable
<u>Waste Management Measures</u>				
7.6.2 to 7.6.4	Within the boundaries of all construction sites.	<ul style="list-style-type: none"> In accordance with ETWB TC (W) No. 19/2005 - Environmental Management on Construction Sites", the Contractor shall prepare and implement a Waste Management Plan (WMP) as part of the Environmental Management Plan (EMP). The EMP shall describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. 	Contractor	Implemented
		<ul style="list-style-type: none"> 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
7.6.5 to 7.6.6		<ul style="list-style-type: none"> 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	Implemented
		<ul style="list-style-type: none"> Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste. 	Contractor	Implemented
		<ul style="list-style-type: none"> 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 all construction sites as well as transportation routes to designed areas for off-site disposal	<ul style="list-style-type: none"> 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
7.6.8 to 7.6.9		<ul style="list-style-type: none"> The contractor's environmental performance shall be monitored and controlled through the weekly environmental walks. The items after the environmental walks shall include: 		
		<ul style="list-style-type: none"> 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
		<ul style="list-style-type: none"> The environmental performance of the contractor and his sub-contractors; 	Contractor	Implemented
		<ul style="list-style-type: none"> The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and 	Contractor	Implemented

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7.6.10	of materials/Prior to and during construction activities.	<ul style="list-style-type: none"> The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site. 	Contractor	Implemented
		<ul style="list-style-type: none"> Waste shall only be disposed of at licensed sites and the WMP should include procedures to ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&D materials and non-inert C&D materials at public fill reception facilities and landfills, respectively. Appropriate measures should be employed to minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in enclosed containers. 	Contractor	Implemented
		<ul style="list-style-type: none"> 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	Implemented
7.6.11 to 7.6.14		<ul style="list-style-type: none"> 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. 	Contractor	Implemented
		<ul style="list-style-type: none"> 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
		<ul style="list-style-type: none"> 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
		<ul style="list-style-type: none"> Paving bricks arising from existing pavement should be recycled on site as much as possible. 	Contractor	Not Applicable
		<ul style="list-style-type: none"> Existing marginal roadside barriers comprise pre-cast units should be reused in the following widening works as much as possible, 	Contractor	Not Applicable

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		• 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	Not Applicable
7.6.15 to 7.6.17		• Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows. Containers used for the storage of chemical wastes should:		
		• be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;	Contractor	Partially 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
		• 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	Partially 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	Contractor	Implemented

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		by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily or every second day basis to minimize odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law.		
		• Separate labelled bins should be provided if feasible.	Contractor	Implemented
		• Office waste can be reduced through recycling of paper if volume is large enough to warrant collection. Participation in a local collection scheme should be considered if one is available.	Contractor	Implemented
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	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	<i>General Condition</i>			
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 any amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s).	Contractor	Implemented

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