FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

MONTHLY EM&A REPORT

April 2024

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/0814A

Prepared by	**:**	Eric Chan
Reviewed by	**:**	Calvin Leung
Certified by	**:**	Calvin Leung Environmental Team Leader Fugro Technical Services Limited

Our ref: PL-202405053

Unit 2320, Level 23,
Tower I, Metroplaza,
223 Hing Fong Road, Kwai Fong,
N.T., Hong Kong.

Attention: Mr. Joseph YAN

29 May 2024

Dear Joseph,

NE/2017/05
Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)
Monthly EM&A Report for April 2024

I refer to the email of the ET regarding to the captioned Monthly EM&A Report with report No. 0064/18/ED/0814A, I have no adverse comment on it and verify this monthly report according to section 1.9 of the Environmental Permit with Permit No. EP- 463/2013/B.

Yours faithfully,

Li Wai Ming Kevin
Independent Environmental Checker

cc. CRE – Mr. YU Albert (by email only: albert.yu@aecom.com)
CEDD – Mr. YAN Joseph (by email only: jkcyan@cedd.gov.hk)

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

TABLE OF CONTENTS

FIGURES

LIST OF APPENDICES

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

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 Monthly EM&A report presents the environmental monitoring and audit works for the period between 1 April 2024 and 30 April 2024. As informed by the Contractor, major activities in the reporting month were summarized as below table:

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
• Road surface Maintenance • Noise Barrier Erection Works • Construction of Transition	• Road surface Maintenance • Noise Barrier Erection Works • Construction of Draw pit and Pillar box • Construction of Transition	• Tree Works (preservation / felling/ pruning/ transplantation) • Road surface Maintenance • Reinstatement of footpath and cycle track • Construction of Retaining Wall • Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works • Construction Works for Lift no.1 • Construction Works N262 Central median • Relocation of Existing Fire Hydrants and relating Watermains • Drainage Works + Road diversion+ Asphalt works Structure work of SR2	• Road surface Maintenance • Road Construction (Bitumen paving) • Drainage Construction Works • Noise Barrier Erection Works • Road diversion + Asphalt works	• Road surface Maintenance • Noise Barrier Foundation Works • Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope • Noise Barrier Erection Works • Drainage Construction Works (Diversion)

Breaches of the Action and Limit Levels

iii. 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.

iv. Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.

v. Regular night time noise monitoring was carried out on 5, 9, 18 and 23 April 2024 respectively and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Complaint, Notification of Summons and Successful Prosecution

vi. Two complaints were received in the report month. The summaries are listed below:

- A complaint was received via 1823 (CASE#3-8138907298) on 10th April 2024. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road.

- A complaint was received via 1823 (CASE#3-8179141354) on 16th April 2024. The complainant is concerned about the nuisance generated by breaking works near Wo Che Estate.

Reporting Changes

vii. There was no reporting change in the reporting month.

Future Key Issues

viii. The key issues to be considered in the coming reporting month include:

Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water quality, waste management and landscape and visual impact.

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

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 Monthly 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 65th monthly 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 April 2024 and 30 April 2024.

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 3551
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. S.Y. Wong	9257 8521
	Environmental Officer	Ms. Ymen Wong	5267 6087
ET (FTS)	Environmental Team Leader	Mr. Calvin Leung	3565 4441
	Environmental Team Member	Mr. Eric Chan	3656 1004

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

1.3 Construction Programme and Activities

1.3.1 This project was commenced on 29 November 2018 and the construction works is expected to be completed in year 2024. The construction programme is shown in **Appendix A.**

1.3.2 A summary of the major construction activities undertaken in the reporting month were shown in below table:

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
• Road surface Maintenance • Noise Barrier Erection Works • Construction of Transition	• Road surface Maintenance • Noise Barrier Erection Works • Construction of Draw pit and Pillar box • Construction of Transition	• Tree Works (preservation / felling/ pruning/ transplantation) • Road surface Maintenance • Reinstatement of footpath and cycle track • Construction of Retaining Wall • Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works • Construction Works for Lift no.1 • Construction Works N262 Central median • Relocation of Existing Fire Hydrants and relating Watermains • Drainage Works + Road diversion+ Asphalt works • Structure work of SR2	• Road surface Maintenance • Road Construction (Bitumen paving) • Drainage Construction Works • Noise Barrier Erection Works • Road diversion + Asphalt works	• Road surface Maintenance • Noise Barrier Foundation Works • Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope • Noise Barrier Erection Works • Drainage Construction Works (Diversion)

1.4 Status of Environmental Licenses, Notifications and Permits

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

Table 1.2 Relevant Environmental Licenses, Permits and/or Notifications

Environmental License / Permit / Notification	Reference Number	Valid From	Valid Till
Environmental Permit for whole project	EP-463/2013/B	20/12/2016	Nil
Receipt of the notification of construction dust production	Form NA	27/7/2018	Nil
Construction Waste Disposal Account	7031619	17/8/2018	Nil
Chemical Waste Producer Registration	5318-758-C4314-01	06/11/2018	Nil
Effluent Discharge License (Zone 1 – 5)	WT10001554-2023	07/11/2023	30/11/2028
Effluent Discharge License (Shui Chong Street)	WT00033829-2019	25/06/2019	30/06/2024
Construction Noise Permit for 24 hours Water Pump (Zone 1 – 5)	GW-RN0272-24	01/04/2024	30/09/2024
Construction Noise Permit for Road Closure, Sunday and Public Holiday (Zone 1 – 5)	GW-RN0235-24	19/03/2024	18/04/2024
Construction Noise Permit for Road Closure, Sunday and Public Holiday (Zone 1 – 5)	GW-RN0398-24	19/04/2024	18/05/2024
Construction Noise Permit for Road Closure, Erection of Sign Gantry (Zone 3 – 5)	GW-RN0115-24	24/02/2024	23/05/2024
Construction Noise Permit for Road Closure, General works (Zone 1 – 5)	GW-RN0236-24	01/04/2024	30/04/2024
Construction Noise Permit for General Works (Zone 3 – 5)	GW-RN0328-24	01/04/2024	30/04/2024

2. AIR QUALITY

2.1 Monitoring Requirement

In accordance with the updated EM&A Manuals, 24-hour & 1-hour Total Suspended Particulates (TSP) level at the designated air quality monitoring station are required. Impact 24-hour and 1-hour TSP monitoring should be carried out at least once every 6 days. The Action and Limit Levels of the air quality monitoring are given in **Appendix C**.

2.2 Monitoring Equipment

The 24-hour and 1-hour TSP air quality monitoring was performed using High Volume Air Samplers (HVS) and portable TSP Monitors located at each of the designated monitoring station respectively.

Table 2.1 and 2.2 summarizes the equipment used in air quality monitoring.

Table 2.1 24-hour TSP Monitoring Equipment

Item	Location	Brand	Model	Equipment	Serial Number
1	AMS5	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	114892
2	AMS7A	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	114894
3	AMS14	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	114895
4	AMS15	*Sibata	Model LD-5R	Sibata Portable TSP Monitors	155716

*Notes: As electricity supply is not available and accessible for the High Volume Samplers (HVS) at AMS 5, 7A, 14 and 15 portable Laser Particle Photometer Monitors will be utilized for 24-hour TSP monitoring instead of High Volume samplers (HVS). The correlation between HVS and the portable Laser Particle Photometer Monitors are presented in Appendix D.

Table 2.2 1-hour TSP Monitoring Equipment

Item	Location	Brand	Model	Equipment	Serial Number
1	AMS5	Sibata	Model LD-5R	Sibata Portable TSP Monitors	114892
2	AMS7A	Sibata	Model LD-5R	Sibata Portable TSP Monitors	114894
3	AMS14	Sibata	Model LD-5R	Sibata Portable TSP Monitors	114895
4	AMS15	Sibata	Model LD-5R	Sibata Portable TSP Monitors	155716

2.3 Monitoring Methodology

2.3.1 24-hour TSP air quality monitoring by High Volume Air Samplers (HVS)

HVS Installation

The following guidelines were adopted during the installation of HVS:

- Sufficient support is provided to secure the samplers against gusty wind.
- No two samplers are placed less than 2 meters apart.
- The distance between the sampler and an obstacle, such as buildings, is at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2 meters of separation from walls, parapets and penthouses is required for rooftop samples.
- A minimum of 2 meters separation from any supporting structure, measured horizontally is required.
- No furnaces or incineration flues are nearby.

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

- Airflow around the samplers is unrestricted.
- The samplers are more than 20 meters from the drip line.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.

Filters Preparation

Fiberglass filters (provided by the HOKLAS accredited laboratory) shall be used (Note: these filters have a collection efficiency of larger than 99% for particles of 0.3 μm diameter). A HOKLAS accredited laboratory (Fugro Technical Services Limited) is responsible for the preparation of 24-hr conditioned and pre-weighed filter papers for monitoring team.

All filters are equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature is around 25°C and not variable by more than ±3°C; the relative humidity (RH) is < 50% and not variable by more than ±5%. A convenient working RH is 40%.

Operating / Analytical Procedures

Operating / analytical procedures for the air quality monitoring are highlighted as follows:

- Prior to the commencement of the dust sampling, the flow rate of the HVS are properly set (between 0.6 m^3/min and 1.7 m^3/min) in accordance with the EM&A manual. The flow rate shall be indicated on the flow rate chart.
- The power supply shall be checked to ensure the samplers worked properly.
- On sampling, the samplers shall be operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air quality monitoring station.
- The filter holding frame is then removed by loosening the four nuts and carefully a weighted and conditioned filter is centered with the stamped number upwards, on a supporting screen.
- The filter shall be aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame is tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid shall be closed and secured with the aluminum strip.
- The timer is then programmed. Information shall be recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter shall be removed and sent to laboratory for weighing. The elapsed time is also recorded.
- Before weighing, all filters are equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%. Weighing results are returned to MCL for further analysis of TSP concentrations collected by each filter.

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

2.3.2 24-hour TSP air quality monitoring by portable Laser Particle Photometer Monitors

Operating / Analytical Procedures

The measuring procedures of the 24-hr dust meter are in accordance with the Manufacturer's instruction Manual as follows:

- Pull up the air sampling inlet cover
- Change the Mode 0 to BG once
- Push Start/Stop switch once
- Turn the knob to SENSI.ADJ and press it
- Push Start/Stop switch once
- Return the knob to the position MEASURE slowly
- Push the timer set switch to set measuring time
- Remove the cap and make a measurement

Calculation of the value of 24-hr TSP concentration is given by the average of 24 calculated 1-hr TSP concentration, where the calculated 1-hr TSP concentration is given by the product of the direct reading and the K-factor based on the correlation results between the direct reading meter and high volume sampler.

2.3.3 1-hour TSP air quality monitoring

Operating / Analytical Procedures

The measuring procedures of the 1-hr dust meter are in accordance with the Manufacturer's instruction Manual as follows:

- Pull up the air sampling inlet cover
- Change the Mode 0 to BG once
- Push Start/Stop switch once
- Turn the knob to SENSI.ADJ and press it
- Push Start/Stop switch once
- Return the knob to the position MEASURE slowly
- Push the timer set switch to set measuring time
- Remove the cap and make a measurement

2.4 Maintenance / Calibration

2.4.1 24-hour TSP air quality monitoring

The following maintenance / calibration are required for the HVS:

- The high volume motors and their accessories are properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking are made to ensure that the equipment and necessary power supply are in good working condition.
- All HVS shall be calibrated (five point calibration) using Calibration Kit upon installation and thereafter in every 3 months.
- A copy of the calibration certificates for the HVS and calibrator are provided in **Appendix D**.

2.4.2 1-hour TSP air quality monitoring

- The portable TSP monitor should be calibrated at 1-year intervals.

2.5 Monitoring Locations

2.5.1 The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works. According to the Hong Kong Observatory, wind direction in April 2024 was northeast and east. The most updated locations are summarized in **Table 2.3** and shown in **Figure 2a**.

Table 2.3 Location of Air Quality Monitoring Station

Monitoring Station	Location	Land uses
AMS5	Tin Liu	Residential Village
AMS7A	Sheung Wo Che	Residential Village
AMS14	Ha Wo Che	Residential Village
AMS15	Ha Wo Che	Residential Village

2.6 Results and Observations

2.6.1 The schedule of air quality monitoring in reporting month is provided in **Appendix E**.

2.6.2 No Action / Limit Level exceedance was recorded for 24-hr and 1-hr TSP at AMS 5, 7A, 14 and 15 in the reporting month.

2.6.3 During the reporting month, major dust sources included trial pits excavation, piling works, demolition of existing parapet, removal of existing staircase, road surface maintenance and ELS works were observed in the site. Other factors such as road traffic along Tai Po Road may affect the monitoring results.

2.6.4 The weather conditions during the monitoring are provided in **Appendix K**.

2.6.5 The monitoring data of 24-hr and 1-hr TSP are summarized in **Table 2.4 and 2.5**. Detailed monitoring data are presented in **Appendix F**.

Table 2.4 Summary of 24-hr TSP Monitoring Results

Parameter	Monitoring Station	Average ($\mu g/m^3$)	Range ($\mu g/ m^3$)	Action Level ($\mu g/ m^3$)	Limit Level ($\mu g/ m^3$)
24-hr TSP in $\mu g/m^3$	AMS5	40	39-41	156	260
	AMS7A	45	44-46	171	
	AMS14	41	39-45	174	
	AMS15	46	44-48	172	

Table 2.5 Summary of 1-hr TSP Monitoring Results

Parameter	Monitoring Station	Average ($\mu g/m^3$)	Range ($\mu g/ m^3$)	Action Level ($\mu g/ m^3$)	Limit Level ($\mu g/ m^3$)
1-hr TSP in $\mu g/m^3$	AMS5	46	39-50	340	500
	AMS7A	50	44-54	344	
	AMS14	45	37-50	350	
	AMS15	51	45-57	350	

2.6.6 The Event and Action Plan for air quality is given in **Appendix H**.

3. NOISE

3.1 Monitoring Requirement

3.1.1 In accordance with the updated EM&A Manuals, L_{eq} (30min) monitoring is conducted for at least once a week during the construction phase between 0700 and 1900 on normal weekdays at the designated monitoring locations.

3.2 Monitoring Equipment

3.2.1 The sound level meter used in noise monitoring will comply with the International Electrotechnical Commission Publication 651:1979 (Type 1) and 804:1985 (Type 1) specifications as referred to in the Technical Memorandum issued under the Noise Control Ordinance (NCO).

3.2.2 Sound level calibrator will be used for the on-site calibration of the meter. This calibrator complies with the IEC Publication 942 (1988) Class 1 and ANSI S1.40 - 1984. Noise measurements were only accepted to be valid if the calibration levels from before and after the measurement agree to within 1.0dB.

3.2.3 Measurements shall be recorded to the nearest 0.1dB. Sound level meters are programmed to measure A-weighted equivalent continuous sound pressure level at 30-minute intervals between 0700 and 1900 on normal weekdays at least once a week when construction activities are underway.

Table 3.1 summarizes the noise monitoring equipment model being used for this project.

Table 3.1 Noise Monitoring Equipment

Item	Brand	Model	Equipment	Serial Number
1	Casella	CEL-63X Series	Integrating Sound Level Meter	0873599
2	Casella	CEL-63X Series	Integrating Sound Level Meter	1488279
3	Casella	CEL-63X Series	Integrating Sound Level Meter	1488287
4	Casella	CEL-63X Series	Integrating Sound Level Meter	1488295
5	Casella	CEL-120 Series	Calibrator	2092809
6	Casella	CEL-120 Series	Calibrator	3321858
7	Casella	CEL-120 Series	Calibrator	5230736
8	Casella	CEL-120 Series	Calibrator	5230758

3.3 Monitoring Parameters and Frequency

Table 3.2 presents the noise monitoring parameters and frequencies.

Table 3.2 Monitoring Parameters and Frequencies of Noise Monitoring

Parameter	Frequency and Period
L_{Aeq} **(30min)** L_{10} and L_{90} will be recorded for reference	At each station at 0700-1900 hours on normal weekdays at a frequency of once a week

3.4 Monitoring Methodology

3.4.1 The monitoring procedures are as follows:

- The monitoring station is set at a point 1m from the exterior of the sensitive receivers building façade and set at a position 1.2m above the ground.
- The battery condition is checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time are set as follows:
  - frequency weighting : A
  - time weighting : Fast
  - measurement time : Weekly 30 minutes between 0700-1900 on normal weekdays
- Prior to and after noise measurement, the meter shall be calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement will be considered invalid and repeat of noise measurement is required after re-calibration or repair of the equipment.
- Noise monitoring should be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.
- Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
- At the end of the monitoring period, the Leq, L10 and L90 are recorded. In addition, site conditions and noise sources are recorded on a standard record sheet.

3.5 Maintenance / Calibration

3.5.1 Maintenance and Calibration procedures are as follows:

- The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.
- The sound level meter and calibrator should be calibrated annually by a HOKLAS laboratory.
- Relevant calibration certificates are provided in **Appendix D**.

3.6 Monitoring Locations

3.6.1 According to the updated EM&A Manual, 25 noise monitoring locations were included during the noise monitoring. The monitoring locations are summarized in **Table 3.3** and shown in **Figure 2b**.

Table 3.3 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 (Site Boundary)	Residential	Façade
NMS6A	Wai Wah Centre (Site Boundary)	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

3.7 Results and Observations

3.7.1 The schedule of noise monitoring in reporting month is provided in **Appendix E**.

3.7.2 The exam schedules of the schools and Arrangements on Deferral of Class Resumption for All Schools are provided in **Appendix E**.

3.7.3 During the monitoring month, road traffic along Tai Po Road was observed which may affect the monitoring results.

3.7.4 According to the onsite observation, no raining was observed and no wind speed over 5 m/s was measured during the noise monitoring. The weather conditions during the monitoring month are provided in **Appendix K**.

3.7.5 The daytime noise monitoring data are summarized in **Table 3.4**. Detailed monitoring data are presented in **Appendix G**.

Table 3.4 Summary of Day Time Noise Impact Monitoring Results

Monitoring Station	$L_{eq\ (30min)}$ Range, dB(A) Construction Noise Level	$L_{eq\ (30min)}$ Limit Level, dB(A)
NMS1	63.9 – 66.9	75
NMS2	50.2 – 54.5	75
NMS3	62.4 – 65.2	75
NMS4	63.0 – 66.0	75
NMS5A	67.6 – 70.8	75
NMS6A	68.4 – 72.4	75
NMS7	63.8 – 67.8	75
NMS8	64.1 – 67.2	75
NMS9	65.4 – 67.8	75
NMS10A	64.2 – 66.9	65/70 [2]
NMS11	64.7 – 67.0	75
NMS12	64.6 – 66.8	65/70 [2]
NMS13	64.4 – 67.1	75
NMS14	60.2 – 62.9	75
NMS15	58.7 – 61.2	75
NMS16	60.7 – 63.5	75
NMS17	61.5 – 64.7	65/70 [2]
NMS18	59.3 – 62.2	75
NMS19	65.1 – 70.5	75
NMS20	61.4 – 63.7	75
NMS23	62.4 – 66.2	75
NMS24	65.3 – 70.0	75
NMS25A	65.0 – 67.6	75
NMS26	67.4 – 70.3	75
NMS27	61.8 – 64.8	65/70 [2]

Note: 1. $L_{eq\ (30min)}$ 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. The school calendar are provided in **Appendix E**.

3.7.6 Regular night time noise monitoring were conducted on 5, 9, 18 and 23 April 2024 and the results are summarized in **Table 3.5**. Detailed monitoring data are presented in **Appendix G.**

Table 3.5 Summary of Night Time Noise Impact Monitoring Results

Monitoring Station	$L_{eq\ (15min)}$ Range, dB(A) Construction Noise Level	$L_{eq\ (15min)}$ Limit Level, dB(A)	$L_{eq\ (15min)}$ Baseline, dB(A)
NMS1	58.8 – 60.5	55	61.4
NMS2	48.4 – 53.1	55	49.7
NMS3	58.1 – 63.6	55	70.9
NMS4	57.5 – 60.9	55	62.6
NMS5A	60.4 – 64.0	55	67.9
NMS6A	63.3 – 70.3	55	71.5
NMS7	56.7 – 60.1[2]	55	59.0
NMS8	59.0 – 61.9	55	64.4
NMS9	53.4 – 55.8[2]	55	53.5
NMS11	50.5 – 53.9	55	53.2
NMS13	53.2 – 56.2	55	57.3
NMS14	53.5 – 57.3[2]	55	54.1
NMS15	55.5 – 59.1[2]	55	58.8
NMS16	54.3 – 58.0	55	60.1
NMS18	52.4 – 56.3	55	63.2
NMS19	52.9 – 53.9	55	61.7
NMS20	49.8 – 54.8	55	57.7
NMS23	56.2 – 60.0[2]	55	59.9
NMS24	58.5 – 59.3[2]	55	58.0
NMS25A	54.2 – 57.4	55	59.7
NMS26	60.0 – 60.5	55	61.2

Note: 1. $L_{eq\ (15min)}$ was measured at night-time (2300-0700).
2. If measured noise level (Leq) > limit level, Corrected noise level (CNL) is calculated as:

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

3. Detailed analysis of each monitoring location is provided in **Appendix G**.

3.7.7 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. For night time noise monitoring, no exceedance case due to construction activity was recorded between 2300 and 0700 of the next day during the reporting month.

3.7.8 The Action and Limit Levels for noise impact monitoring have been set and are presented in **Appendix C**.

3.7.9 The Event and Action Plan for noise is given in **Appendix H**.

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

4. LANDSCAPE AND VISUAL

4.1 Audit Requirements

4.1.1 In accordance with the EM&A Manual, the landscape and visual mitigation measures during the construction phase are primarily due to those associated temporary works for the construction of retrofitting noise barriers/enclosures. To ensure compliance with the intended aims of the measures, weekly site inspections are undertaken throughout the construction period.

4.1.2 According to the updated EM&A Manual, measures to mitigate landscape and visual impacts during construction should be checked to ensure compliance with the intended aims of the measures. The progress of the engineering works shall be regularly reviewed onsite to identify the earliest practical opportunities for the landscape works to be undertaken. The ET shall report on the Contractor's compliance on a weekly basis.

4.2 Results and Observations

4.2.1 Site audits were carried out to monitor and audit the implementation of landscape and visual mitigation measures. The summary of the site audits is given in **Appendix M**.

4.2.2 No non-compliance of the landscape and visual impact was recorded in the reporting month.

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

5. WASTE MANAGEMENT

5.1 Audit Requirements

5.1.1 The effective management of waste arising during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor.

5.1.2 The audit should look at all aspects of on-site waste management practices including the waste generation, storage, recycling, transport and disposal. The aims of waste audit are:

- to ensure the waste arising from the works are handled, stored, collected, transferred and disposed of in an environmentally acceptable manner;
- verify the implementation status and evaluate the effectiveness of the mitigation measures; and
- to encourage the reuse and recycling of material.

5.2 Results and Observations

5.2.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.

5.2.2 The amount of wastes generated by the site activities in the reporting month is shown in **Appendix I**.

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

6. SITE INSPECTION

6.1 Site Inspection

6.1.1 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 J**.

6.1.2 In the reporting month, 4 site inspections were carried out on 5, 11, 15 and 25 April 2024. The site inspection held on 15 April 2024 were joint inspection with the IEC, ER, the Contractor and the ET during the reporting period.

6.1.3 The follow-up actions requested by ET and IEC during the site inspections were completed as reported by the Contractor. All the rectifications during the reporting period were fulfilled with the requirement of Proposal of Site Inspection, Deficiency and Remedial Action. No outstanding issues were reported during the reporting month. Details of observations recorded during the site inspections are summarized in **Appendix M**.

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

7. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

7.1 Environmental Exceedance

7.1.1 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.

7.1.2 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period. Regular night time noise monitoring was carried out on 5, 9, 18 and 23 April 2024 and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.

7.2 Complaints, Notification of Summons and Prosecution

7.2.1 Three complaints were received in the report month. The summaries are listed below:

- A complaint was received via 1823 (CASE#3-8138907298) on 10th April 2024. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road.

  ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0236-24.

  ET carried out regular night-time noise monitoring on 9th ^ 10th April 2024 at NMS13 and NMS26, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)).

  The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d.

  The Main Contractor was also be reminded to pay attention to CNP conditions 3.a and 3.d for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.

- A complaint was received via 1823 (CASE#3-8179141354) on 16th April 2024. The complainant is concerned about the nuisance generated by breaking works near Wo Che Estate.

  ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0236-24.

  ET carried out regular night-time noise monitoring on 5th ^ 6th April 2024 and 9th ^ 10th April 2024 at NMS19 and NMS20, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)).

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d.

The Main Contractor was also be reminded to pay attention to CNP conditions 3.a and 3.d for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.

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

8. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

8.1 Implementation Status

8.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Review Report, the EP and the updated EM&A Manuals. The implementation status of the mitigation measures during the reporting month is summarized in **Appendix J**.

8.1.2 According to the environmental audit performed in the reporting month, 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
- Wheels washing facility should be provided at main entrance. (Zone 3, near bus stop)
- Sandbags and tarpaulin sheeting should be provided along the water barriers. (Zone 3, S20)
- Leakage of muddy water outside site boundary should be cleared immediately. Sandbags and tarpaulin should be used to prevent muddy water leakage. (Zone 3, S20)
- Reagent should be refilled for wastewater treatment tank. (Zone 3)

Chemical and Waste Management
- General refuse should be cleared regularly. (Zone 3, SB)
- General refuse should be cleared regularly or placed in an enclosed bin. (Zone 3, SB)

Land Contamination
- Drip tray should be provided for chemical containers. (Zone 3, SB+CM)
- The rock breaker hammer should be placed on a tarpaulin sheet. (Zone 3)
- Drip tray should be provided for chemical containers. (Zone 3, near bus terminus)
- Drip tray should be provided for chemical containers. (Zone 3)

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
- No specific observation was identified in the reporting month.

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

9. FUTURE KEY ISSUES

9.1 Construction Programme for the Next Month

9.1.1 During the coming reporting month, the principal work activities within the site include:

(1) Road surface Maintenance at Zone 1, 2, 4 and 5
(2) Noise Barrier Erection Works at Zone 1, 2, 4 and 5
(3) Irrigation Work at Zone 1, 2 and 5
(4) Planting Work (Tree / Shrub) at Zone 1 and 2
(5) Construction of Draw pit and Pillar box at Zone 2
(6) Tree Works (including preservation / felling/ pruning/ transplantation) at Zone 3
(7) Reinstatement of footpath and cycle track at Zone 3
(8) Construction of Retaining Wall at Zone 3
(9) Drainage Works at Zone 3
(10) Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works at Zone 3
(11) Construction Works N262 Central median at Zone 3
(12) Relocation of Existing Fire Hydrants and relating Watermains at Zone 3
(13) Drainage Works + Road diversion+ Asphalt works at Zone 3
(14) Piling Work + Construction of Sewage Manhole at Zone 3
(15) Construction of Pile Cap at Zone 3
(16) Road Construction (Bitumen paving) at Zone 4
(17) Drainage Construction Works at Zone 4
(18) Road diversion + Asphalt works at Zone 4
(19) Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope at Zone 5

9.2 Key Issues for the Coming Month

9.2.1 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water quality, waste management and landscape and visual impact.

9.3 Monitoring Schedules for the Next Month

9.3.1 The tentative schedules for environmental monitoring in the coming month are provided in **Appendix E**.

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

10. CONCLUSIONS

10.1.1 24-hour and 1-hour TSP impact monitoring were carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.

10.1.2 Day time construction noise monitoring was carried out in the reporting month, no Action / Limit Level exceedance was recorded during the period.

10.1.3 Regular nighttime noise monitoring was carried out on 5, 9, 18 and 23 April 2024, respectively and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.

10.1.4 4 site inspections were carried out on 5, 11, 15 and 25 April 2024. Recommendations on mitigation measures on water quality, chemical and waste management and land contamination were given to the Contractor for remediating the deficiencies identified during the site inspections.

10.1.5 Two complaints were received in the report month. The summaries are listed below:

- A complaint was received via 1823 (CASE#3-8138907298) on 10th April 2024. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road.

- A complaint was received via 1823 (CASE#3-8179141354) on 16th April 2024. The complainant is concerned about the nuisance generated by breaking works near Wo Che Estate.

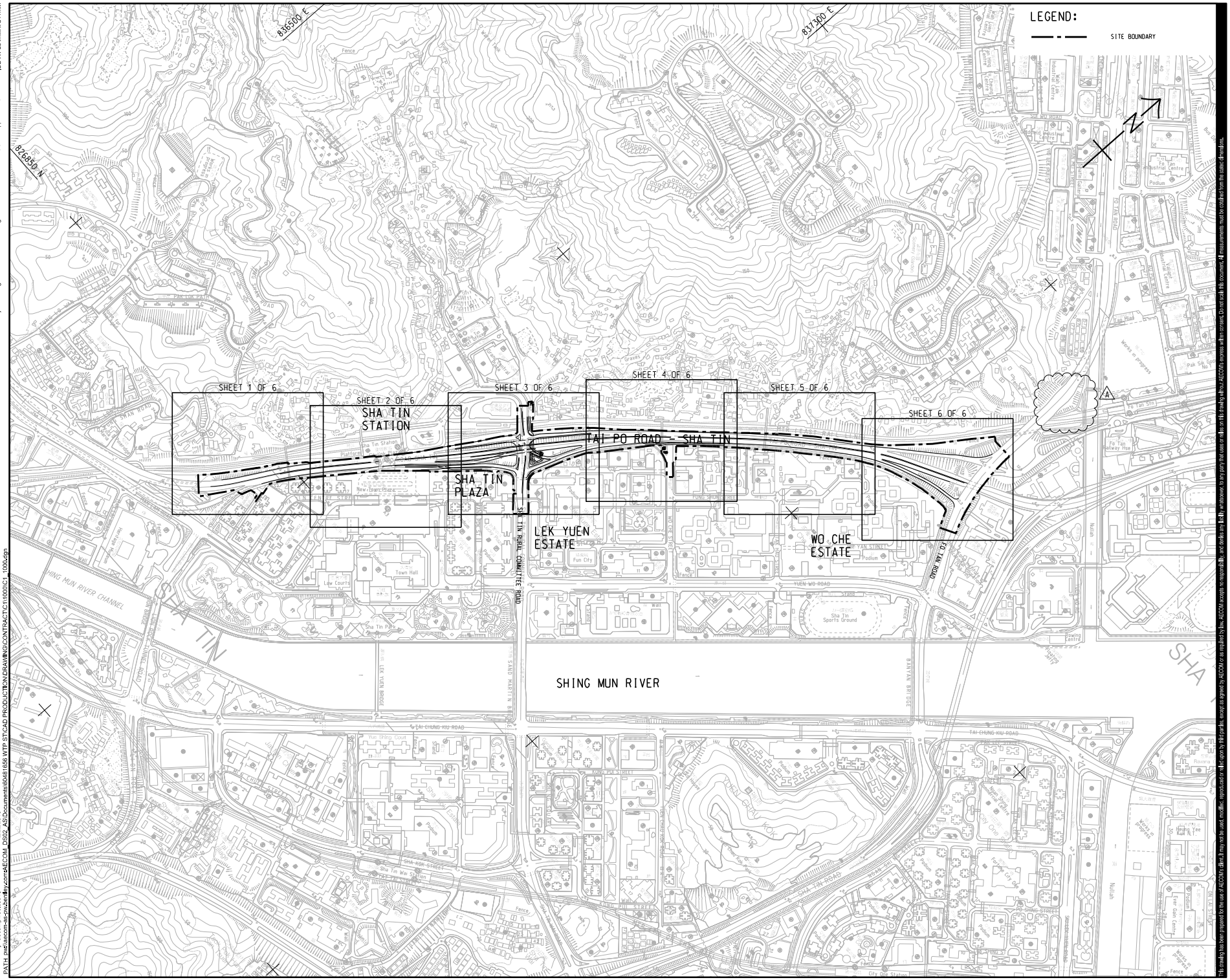
FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Figure 1

Project General Layout



AECOM

PROJECT
項目

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

CLIENT
業主

土木工程拓展署
Civil Engineering and Development Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

IR 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對
A	FEB. 18	TENDER ADDENDUM NO.2	BBC
-	JAN. 18	TENDER DRAWING	BCC

STATUS
階段

SCALE 比例
A1 1 ; 4000

DIMENSION UNIT 尺寸單位
METRES

KEY PLAN 索引圖 **FIGURE 1.1a**

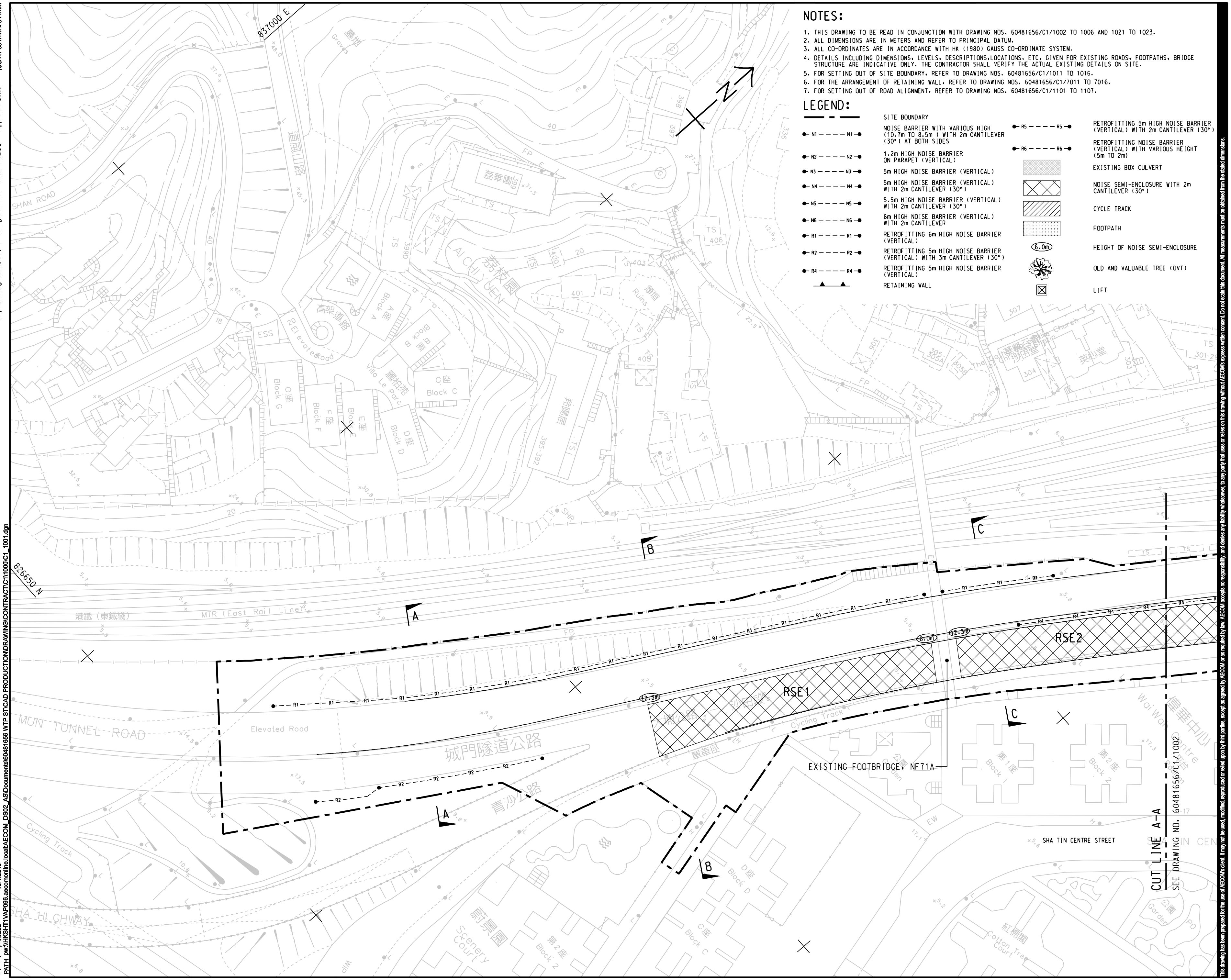
CONTRACT NO.
合約編號
NE/2017/05

SHEET TITLE
圖紙名稱
KEY PLAN
FIGURE 1.1a

SHEET NUMBER
圖紙編號
60481656/C1/1000A

Project Management Initials: CWY Designed: FMSC Checked: BCC Approved: CWN ISO A1 594mm x 841mm

Plot File by: aecomcw06ls301$
2/22/2018
PATH: pw://aecom-as-pw.bentley.com:AECOM_DS02_AS\Documents\60481656 WTP STICAD PRODUCTION\DRAWING\CONTRACT\C1\1000\C1_1000.dgn



NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NOS. 60481656/C1/1002 TO 1006 AND 1021 TO 1023.
2. ALL DIMENSIONS ARE IN METERS AND REFER TO PRINCIPAL DATUM.
3. ALL CO-ORDINATES ARE IN ACCORDANCE WITH HK (1980) GAUSS CO-ORDINATE SYSTEM.
4. 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.
5. FOR SETTING OUT OF SITE BOUNDARY, REFER TO DRAWING NOS. 60481656/C1/1011 TO 1016.
6. FOR THE ARRANGEMENT OF RETAINING WALL, REFER TO DRAWING NOS. 60481656/C1/7011 TO 7016.
7. FOR SETTING OUT OF ROAD ALIGNMENT, REFER TO DRAWING NOS. 60481656/C1/1101 TO 1107.

LEGEND:

- SITE BOUNDARY
- N1 — NOISE BARRIER WITH VARIOUS HIGH (10.7m TO 8.5m) WITH 2m CANTILEVER (30°) AT BOTH SIDES
- N2 — 1.2m HIGH NOISE BARRIER ON PARAPET (VERTICAL)
- N3 — 5m HIGH NOISE BARRIER (VERTICAL)
- N4 — 5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)
- N5 — 5.5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)
- N6 — 6m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER
- R1 — RETROFITTING 6m HIGH NOISE BARRIER (VERTICAL)
- R2 — RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 3m CANTILEVER (30°)
- R4 — RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL)
- RETAINING WALL
- R5 — RETROFITTING 5m HIGH NOISE BARRIER (VERTICAL) WITH 2m CANTILEVER (30°)
- R6 — RETROFITTING NOISE BARRIER (VERTICAL) WITH VARIOUS HEIGHT (5m TO 2m)
- EXISTING BOX CULVERT
- NOISE SEMI-ENCLOSURE WITH 2m CANTILEVER (30°)
- CYCLE TRACK
- FOOTPATH
- 6.0m — HEIGHT OF NOISE SEMI-ENCLOSURE
- OLD AND VALUABLE TREE (OVT)
- LIFT

AECOM

PROJECT 項目

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

CLIENT 業主

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

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	JAN. 18	TENDER DRAWING	BCC

STATUS 階段

SCALE 比例: A1 1 : 500
DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 40000

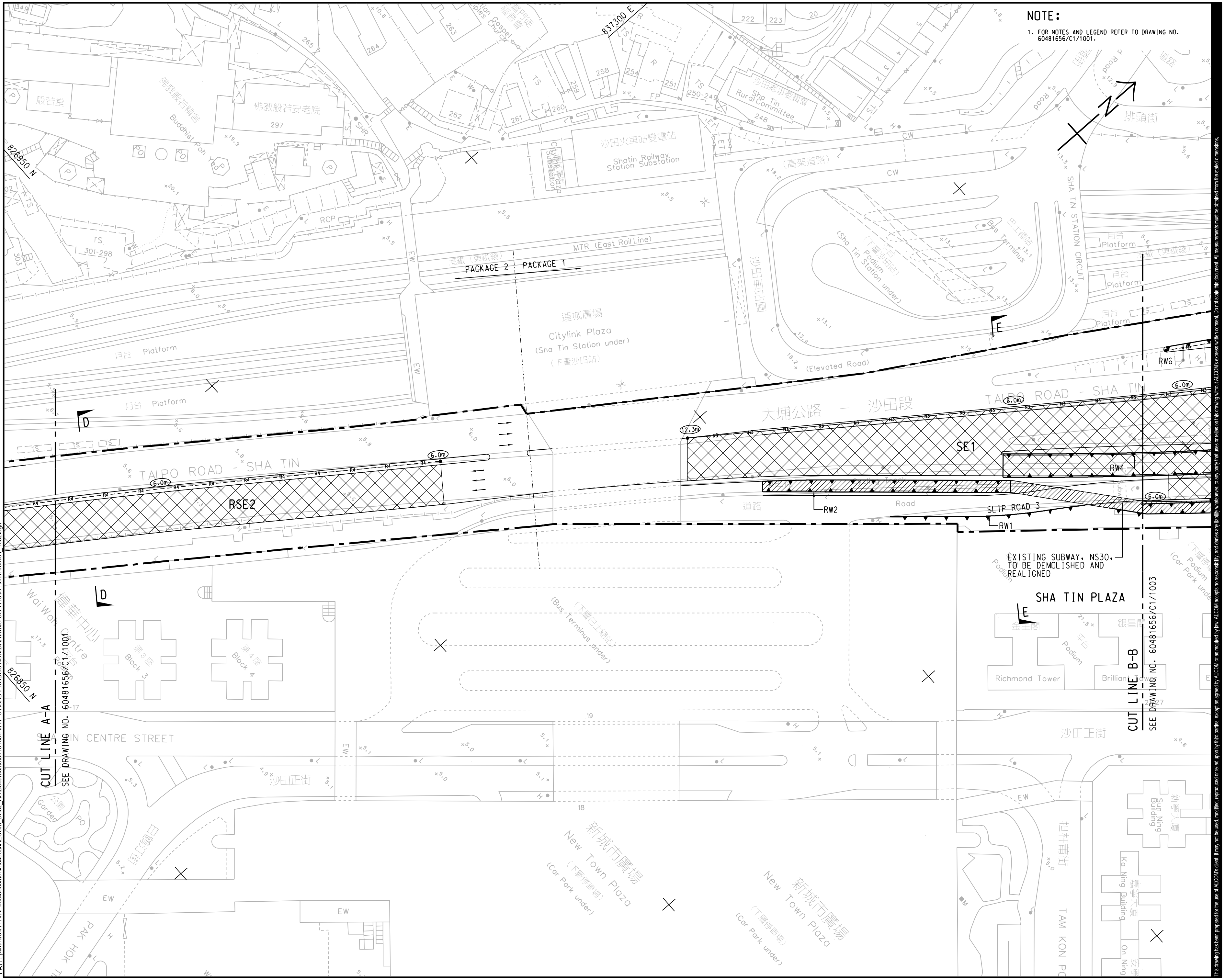
CONTRACT NO. 合約編號: NE/2017/05

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

SHEET 1 OF 6

SHEET NUMBER 圖紙編號: 60481656/C1/1001

ISO A1 594mm x 841mm
Approved: CWN Checked: BCC Designer: FMSC
Project Management Initials:
16/1/2018
Plot File by: XIEJB
PATH: pw:\\HKSHT1VAP096.aecomonline.local:AECOM_DS02_ASI\Documents\60481656 WTP ST\CAD PRODUCTION\DRAWING\CONTRACT\C1\1000\C1_1001.dgn



Project Management Initials: Designer: FMSC Checked: BCC Approved: CWN

ISO A1 594mm x 841mm

Plot File by: AS\WUMT 15/01/2018 11:15:13

PATH pw:\\HKSHT1VAP096.aecomonline.local:AECOM_DS02_AS\Documents\60481656 WTP ST\CAD PRODUCTION\DRAWING\CONTRACT\C1\1000\C1_1002.dgn

AECOM

PROJECT 項目

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

CLIENT 業主

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

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

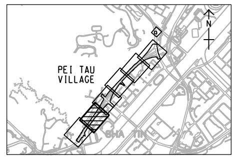
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	JAN. 18	TENDER DRAWING	BCC

STATUS 階段

SCALE 比例 A1 1 : 500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A1 1 : 40000



CONTRACT NO. 合約編號

NE/2017/05

SHEET TITLE 圖紙名稱

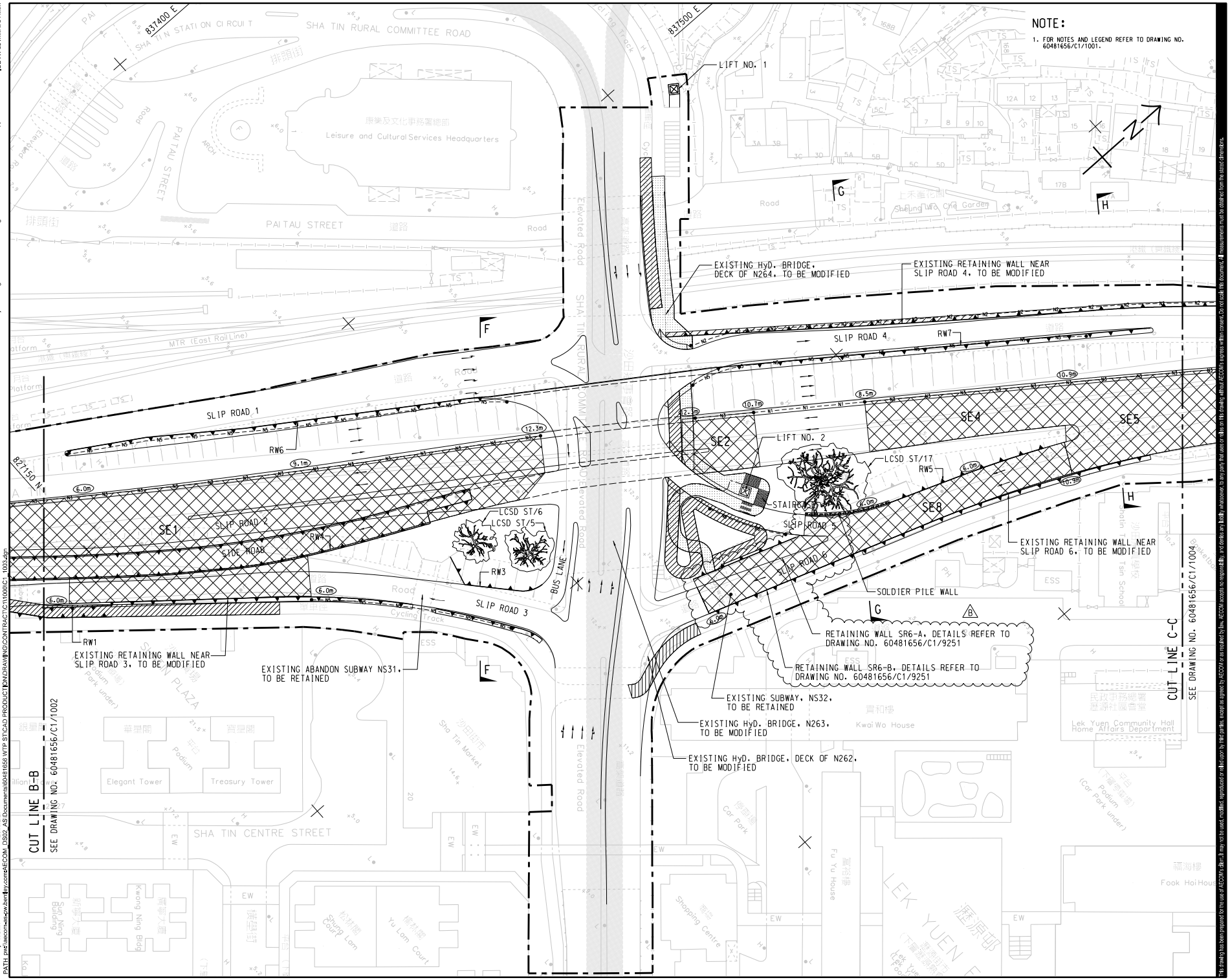
GENERAL LAYOUT PLAN

FIGURE 1.1b

SHEET 2 OF 6

SHEET NUMBER 圖紙編號

60481656/C1/1002



AECOM

PROJECT
項目

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

CLIENT
業主

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

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

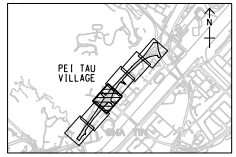
IR 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對
B	FEB. 18	TENDER ADDENDUM NO. 2	BCC
A	FEB. 18	TENDER ADDENDUM NO. 1	BCC
-	JAN. 18	TENDER DRAWING	BCC

STATUS
階段

SCALE 比例 A1 1 : 500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A1 1 : 40000



CONTRACT NO.
合約編號

NE/2017/05

SHEET TITLE
圖紙名稱

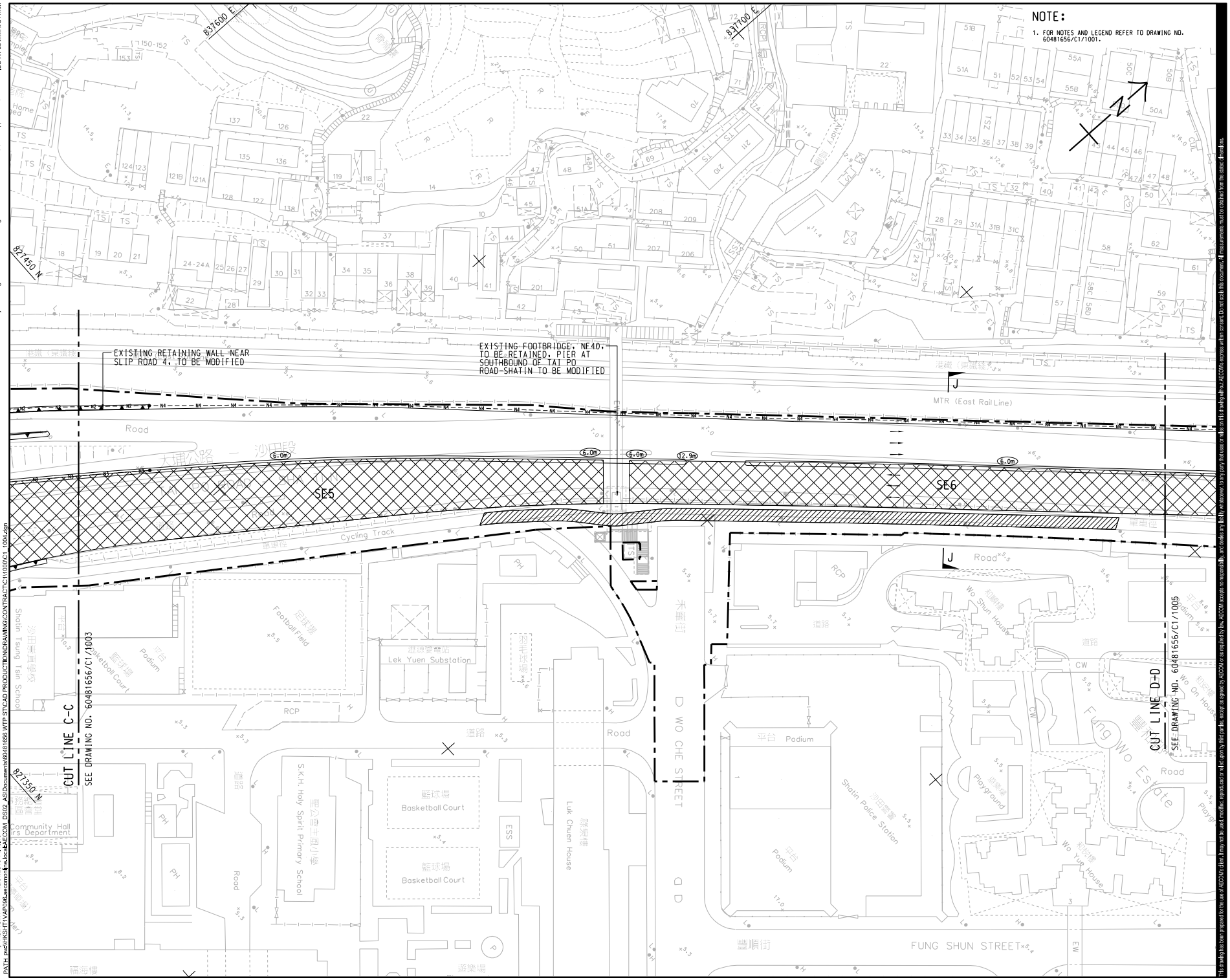
GENERAL LAYOUT PLAN
FIGURE 1.1 b

SHEET 3 OF 6

SHEET NUMBER
圖紙編號

60481656/C1/1003B

Project Management Initials: DesSigner: FMSC Checked: BCC Approved: CWN ISO A1 594mm x 841mm
Plot File by: WUMT
PATH: pw://aecom-eu-sg-pw.bentley.com:AECOM_DS02_AS/Documents/60481656 WTP STICAD PRODUCTION/DRAWING/CONTRACT/C1/1000/C1_1003.dgn
2018/2/27



AECOM

PROJECT
項目

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

CLIENT
業主

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

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

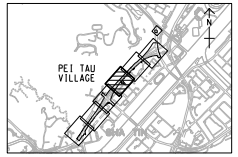
IR 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對
-	JAN, 18	TENDER DRAWING	BCC

STATUS
階段

SCALE 比例: A1 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 40000



CONTRACT NO.
合約編號

NE/2017/05

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN

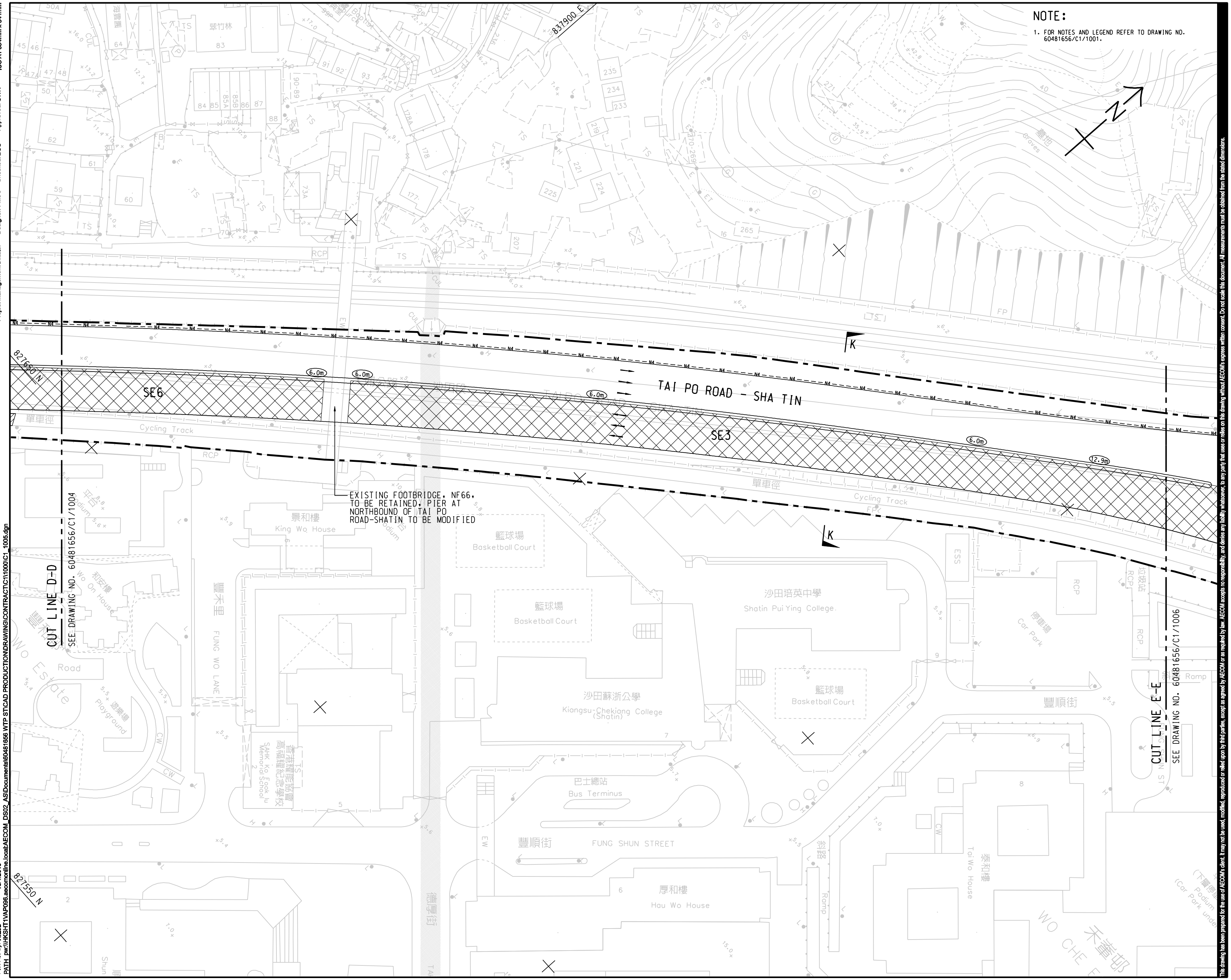
FIGURE 1.1b

SHEET 4 OF 6

SHEET NUMBER
圖紙編號

60481656/C1/1004

Project Management Units: Designed: FMSC Checked: BCC Approved: CWN ISO A1 594mm x 841mm
Plot File by: ASWUMT 15/01/2018 11:15:19
PATH: //wt1/HKSHT1VAP096.aecomnet.asia.local/AECOM_0502_ASIDocuments/60481656 WTP STICAD PRODUCTION\DRAWING\CONTRACT\C1\1000\C1_1004.dgn



AECOM

PROJECT 項目

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

CLIENT 業主

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

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	JAN. 18	TENDER DRAWING	BCC

STATUS 階段

SCALE 比例: A1 1 : 500

DIMENSION UNIT 尺寸單位: METRES

KEY PLAN 索引圖 A1 1 : 40000

PEI TAU VILLAGE

CONTRACT NO. 合約編號

NE/2017/05

SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN

FIGURE 1.1b

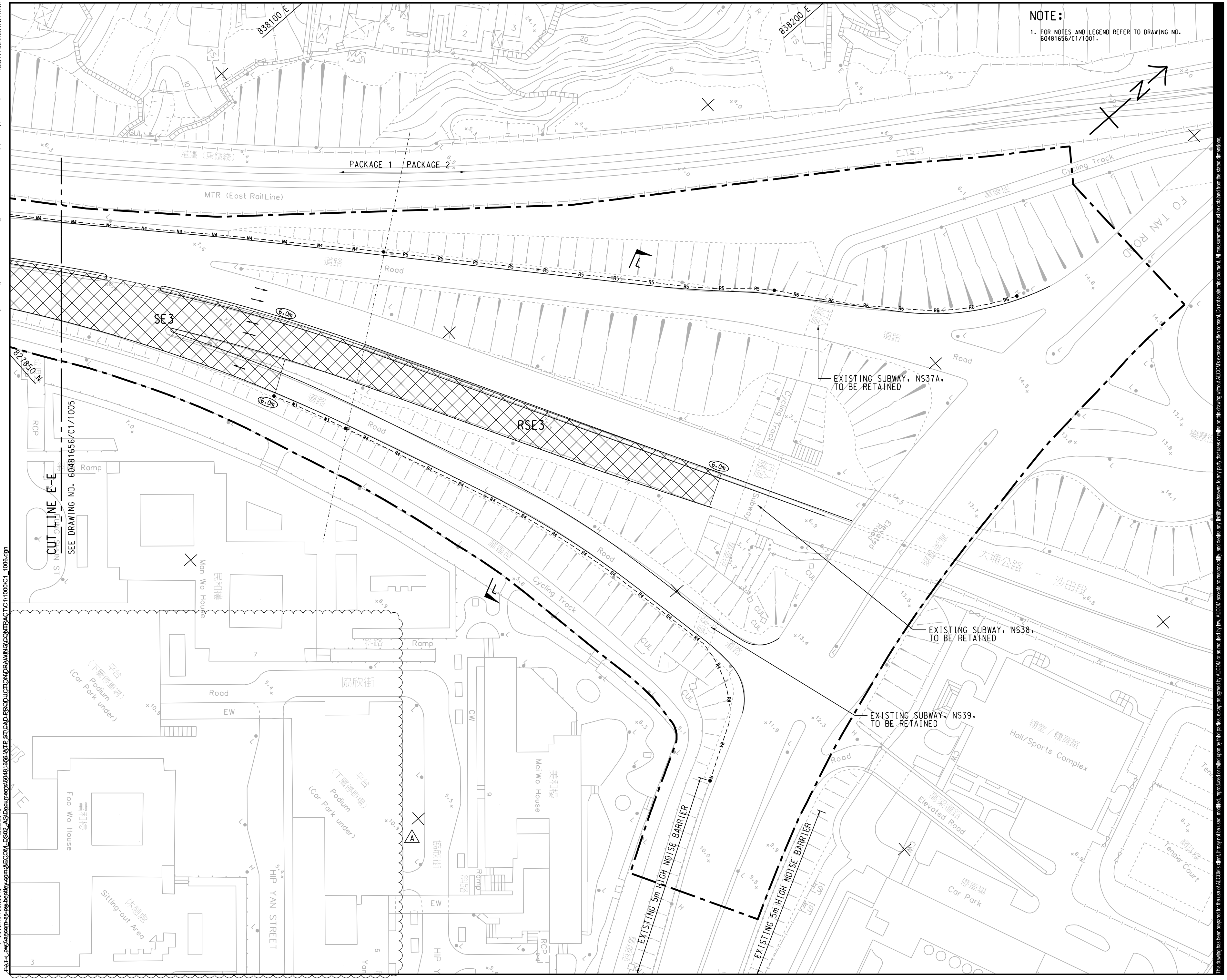
SHEET 5 OF 6

SHEET NUMBER 圖紙編號

60481656/C1/1005

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

Plot File by: XIEJB 16/1/2018
PATH: pw:\\HKSHT1VAP096.aecomonline.local:AECOM_DS02_AS\Documents\60481656 WTP ST\CAD PRODUCTION\DRAWING\CONTRACT\C1\1000\C1_1005.dgn



Project Management Initials: Designer: FMSC Checked: BCC Approved: CWN

ISO A1 594mm x 841mm

2/22/2018

Plot File by: aecompw06ics015

AECOM

PROJECT
項目

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

CLIENT
業主

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

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION
修訂

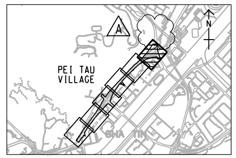
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 核對
A	FEB. 18	TENDER ADDENDUM NO.2	BCC
-	JAN. 18	TENDER DRAWING	BCC

STATUS
階段

SCALE 比例 A1 1 : 500

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖 A1 1 : 40000



CONTRACT NO.
合約編號

NE/2017/05

SHEET TITLE
圖紙名稱

GENERAL LAYOUT PLAN
FIGURE 1.1b

SHEET 6 OF 6

SHEET NUMBER
圖紙編號

60481656/C1/1006A

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Figure 2a

Air Monitoring Locations

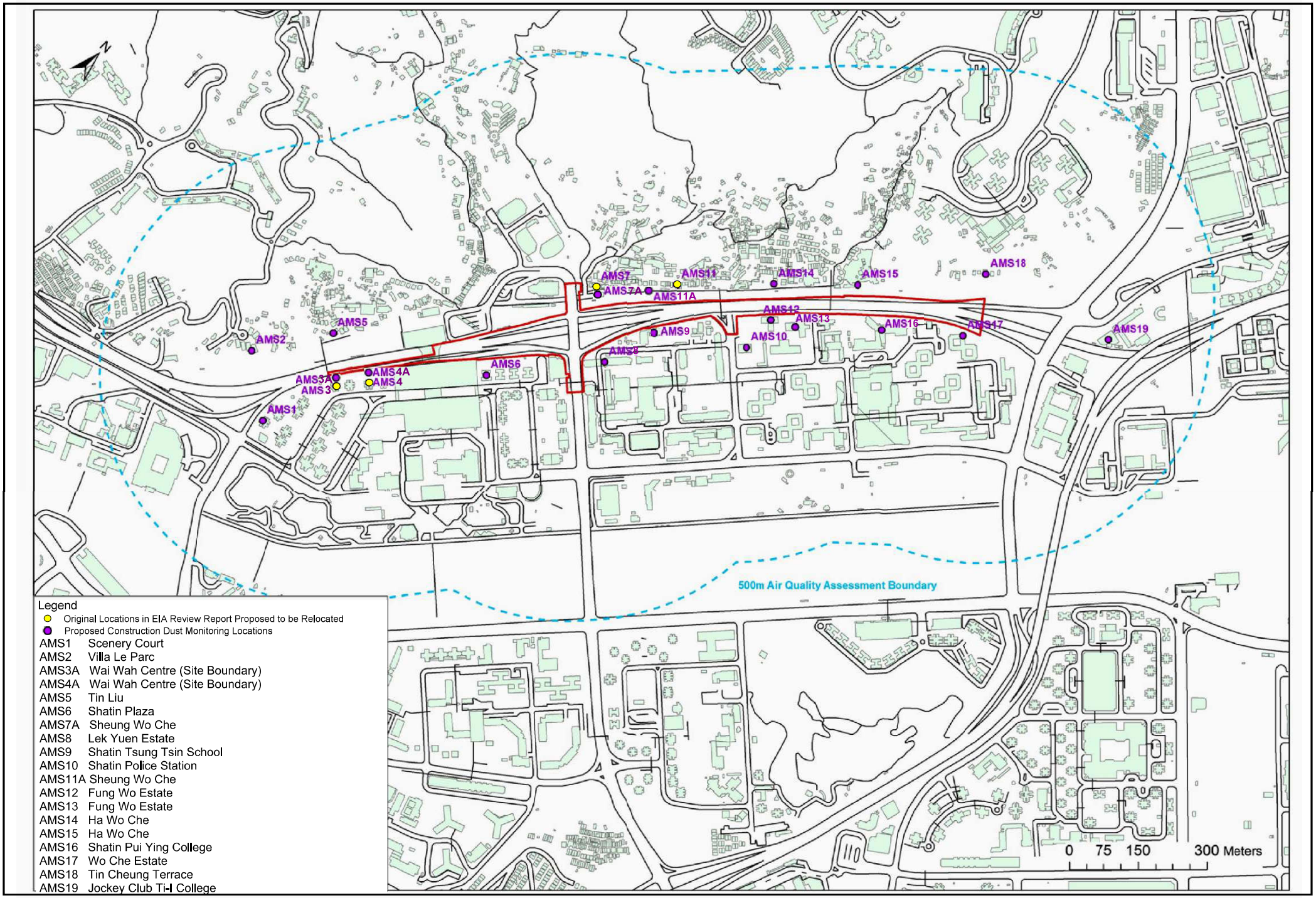


Figure 2a Air Quality Monitoring Locations

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Figure 2b

Noise Monitoring Locations

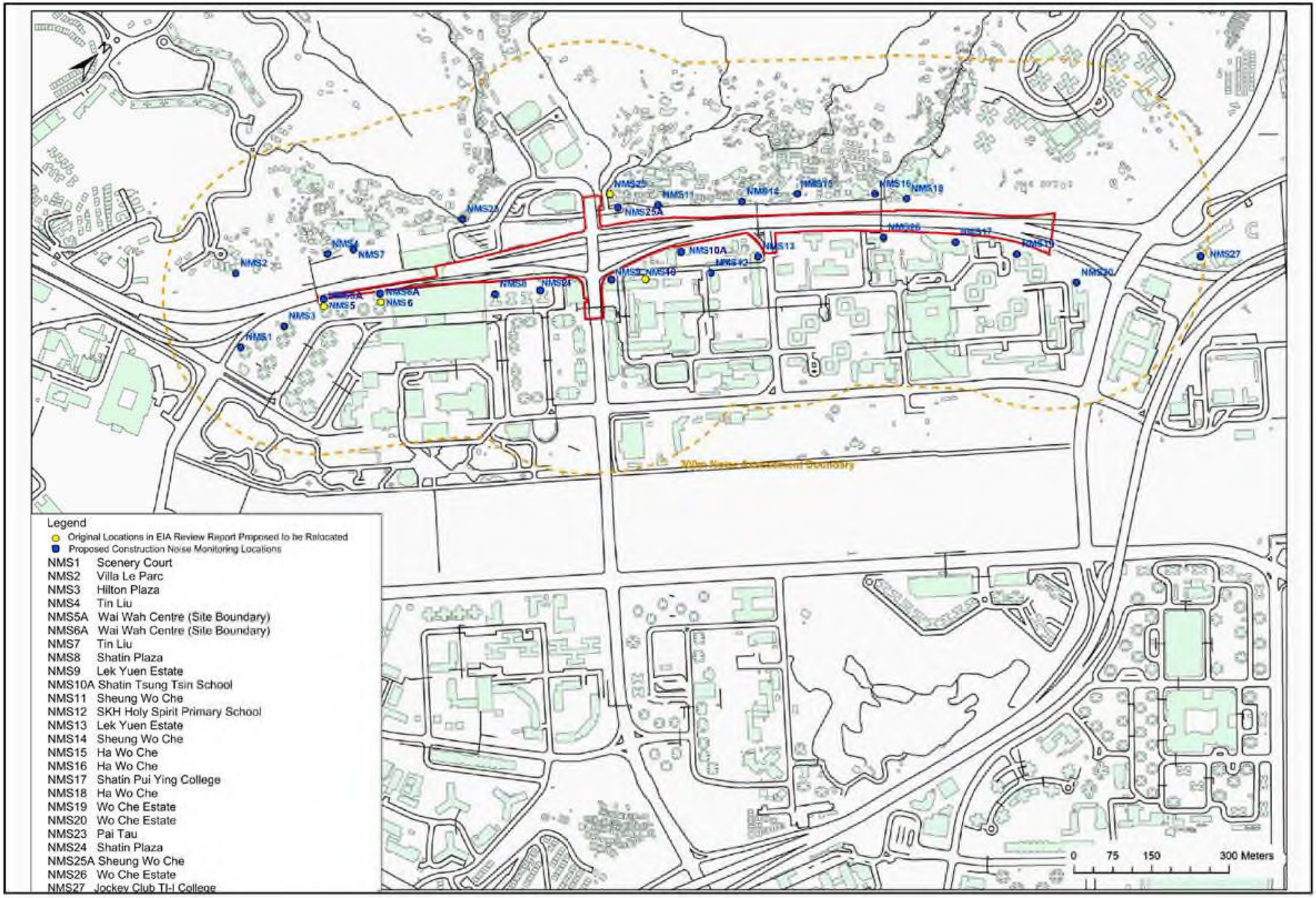


Figure 2b Noise Monitoring Locations

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix A

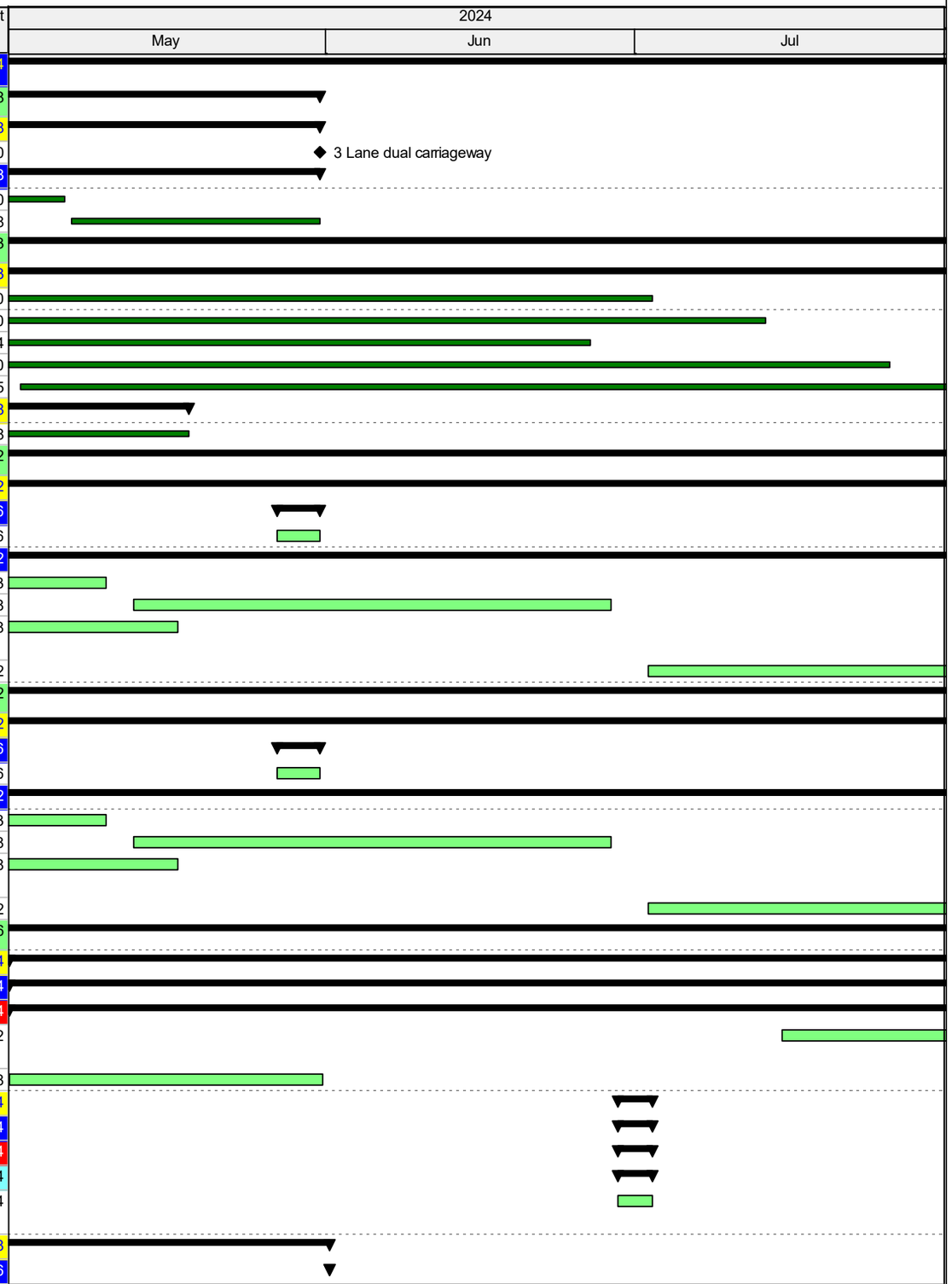
Construction Programme

中國中鐵-中鐵一局-振華工程聯營
CHINA RAILWAY - CHINA RAILWAY FIRST GROUP - ZHEN HUA ENGINEERING JOINT VENTURE

3-Months Rolling Programme with data-date of 30 Apr 2024

DD: 30-Apr-24

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Revised Detailed Works Programme (dd 30 Apr 2024)		1413	11-Jun-19 A	08-Nov-24	54
PROJECT KEY DATES		55	15-Mar-24 A	31-May-24	-28
PROJECT COMPLETION		55	15-Mar-24 A	31-May-24	-28
KEY1060A	3 Lane dual carriageway	0		31-May-24	-290
3 Lane commissioning TTA Stage		55	15-Mar-24 A	31-May-24	-28
TTA11	TTA Stage 11 (Zone 3 - 5)	37	15-Mar-24 A	06-May-24	-10
TTA12	TTA Stage 12 (Zone 3 - 5)	18	07-May-24	31-May-24	-208
SUMMARY		1607	11-Jun-19 A	08-Nov-24	63
SUMMARY PROGRAMME (Zone 3)		1607	11-Jun-19 A	08-Nov-24	63
Z3SU5020	Zone 3 Northbound (RHS)	1466	22-Jul-19 A	02-Jul-24	170
Z3SU5030	Zone 3 Central barrier (LHS)	448	06-Jan-23 A	13-Jul-24	160
Z3SU5040	Zone 3 Central barrier (RHS)	417	30-Jan-23 A	26-Jun-24	-244
Z3SU5050	Zone 3 Southbound (LHS)	1520	11-Jun-19 A	25-Jul-24	150
Z3SU5100	Zone 3 Southbound Road, Gantry	157	02-May-24	08-Nov-24	-235
SUMMARY PROGRAMME (Zone 4)		430	01-Dec-22 A	18-May-24	-238
Z4SU1008	Zone 4 Central barrier	430	01-Dec-22 A	18-May-24	-238
Zone 1		111	29-Apr-24 A	30-Sep-24	82
Lighting and E&M		111	29-Apr-24 A	30-Sep-24	82
Temporary		4	27-May-24	31-May-24	196
Z1_1590	Joint Inspection	4	27-May-24*	31-May-24	196
Aboveground work for Road lighting system and TCSS system		111	29-Apr-24 A	30-Sep-24	82
Z1_1620	Cable containment work and wiring work for Road lighting system	10	29-Apr-24 A	10-May-24	183
Z1_1650	Fixing of lighting Luminaries for Road lighting system	35	13-May-24*	28-Jun-24	148
Z1_1670	Cable containment work, wiring work and Istallation of field equipments for TCSS system (TGS7, G38 and FVMS)	15	29-Apr-24 A	17-May-24	178
Z1_1680	Joint Inspection and T&C for TCSS system	65	02-Jul-24*	30-Sep-24	82
Zone 2		111	29-Apr-24 A	30-Sep-24	82
Lighting and E&M		111	29-Apr-24 A	30-Sep-24	82
Temporary		4	27-May-24	31-May-24	196
Z2_1650	Joint Inspection	4	27-May-24*	31-May-24	196
Aboveground work for Road lighting system and TCSS system		111	29-Apr-24 A	30-Sep-24	82
Z2_1680	Cable containment work and wiring work for Road lighting system	10	29-Apr-24 A	10-May-24	183
Z2_1692	Fixing of lighting Luminaries for Road lighting system	35	13-May-24*	28-Jun-24	148
Z2_1702	Cable containment work, wiring work and Istallation of field equipments for TCSS system (TGS7, G38 and FVMS)	15	29-Apr-24 A	17-May-24	178
Z2_1712	Joint Inspection and T&C for TCSS system	65	02-Jul-24*	30-Sep-24	82
Zone 3		1142	08-Jun-20 A	22-Oct-24	66
Northbound (New Town Plaza to N263)		77	01-May-24	15-Aug-24	114
SR1		77	01-May-24	15-Aug-24	114
SR1_Road Re-construction		77	01-May-24	15-Aug-24	114
Z3_2720	Zone 3 SR1_road flexible pavement Type III (625mm thk.) / deep inlay Type II & III (105mm)	28	15-Jul-24*	15-Aug-24	132
Z3_2721	Sign gantry G39	23	01-May-24*	31-May-24	168
Northbound (N263 to NF40)		4	29-Jun-24	02-Jul-24	204
Modification Of Existing Retaining Wall SR4		4	29-Jun-24	02-Jul-24	204
SR4 Road		4	29-Jun-24	02-Jul-24	204
Road Re-construction		4	29-Jun-24	02-Jul-24	204
Z3_2730	Zone 3_SR4_road flexible pavement Type III (625mm thk.) / deep inlay Type II (105mm) 852m2 1-Lane	4	29-Jun-24*	02-Jul-24	204
Northbound Main Road (Tai Po Road)		36	12-Apr-24 A	01-Jun-24	168
Sign Gantry		0	01-Jun-24	01-Jun-24	236



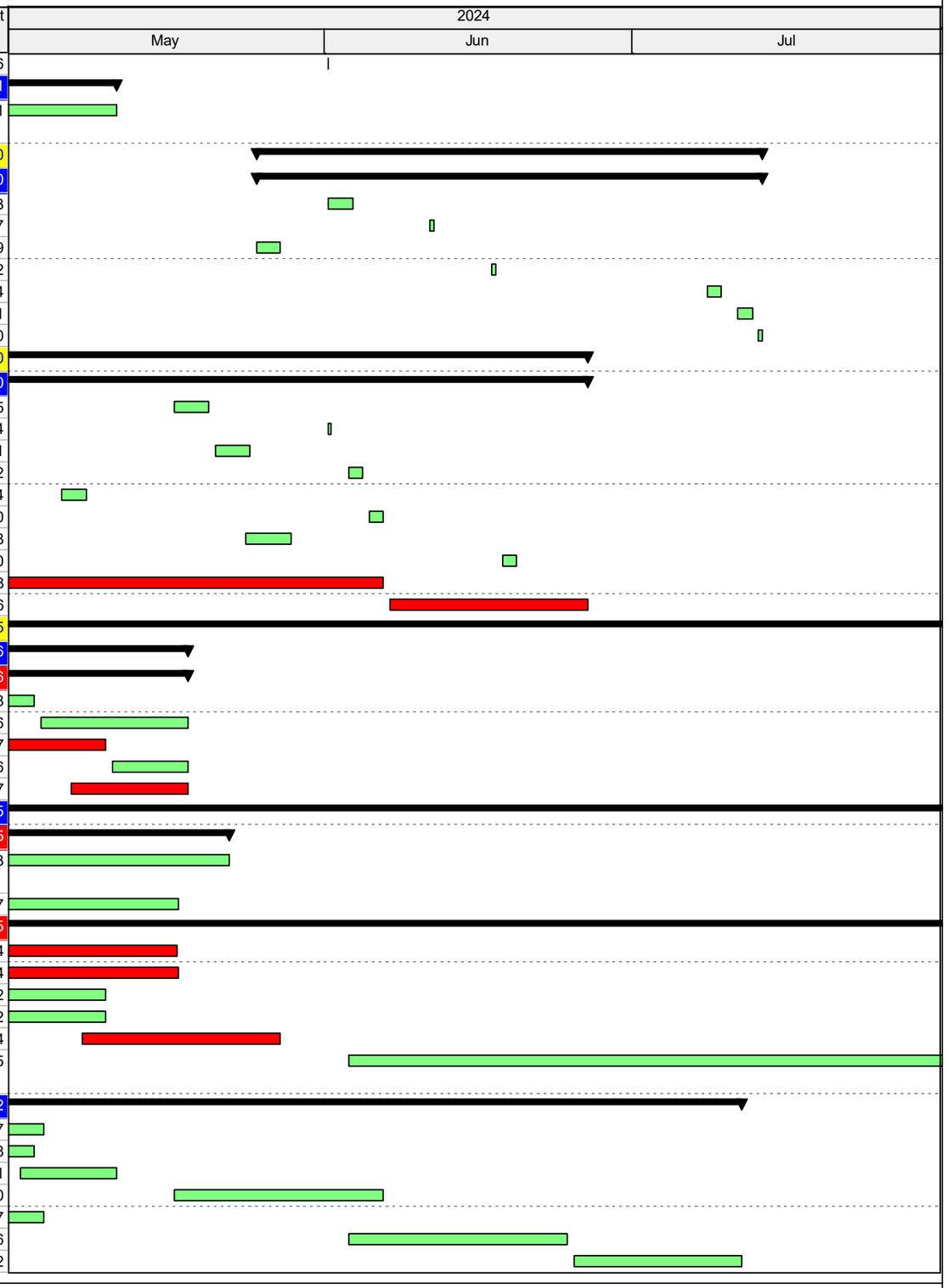
Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

中國中鐵-中鐵一局-振華工程聯營
CHINA RAILWAY - CHINA RAILWAY FIRST GROUP - ZHEN HUA ENGINEERING JOINT VENTURE

3-Months Rolling Programme with data-date of 30 Apr 2024

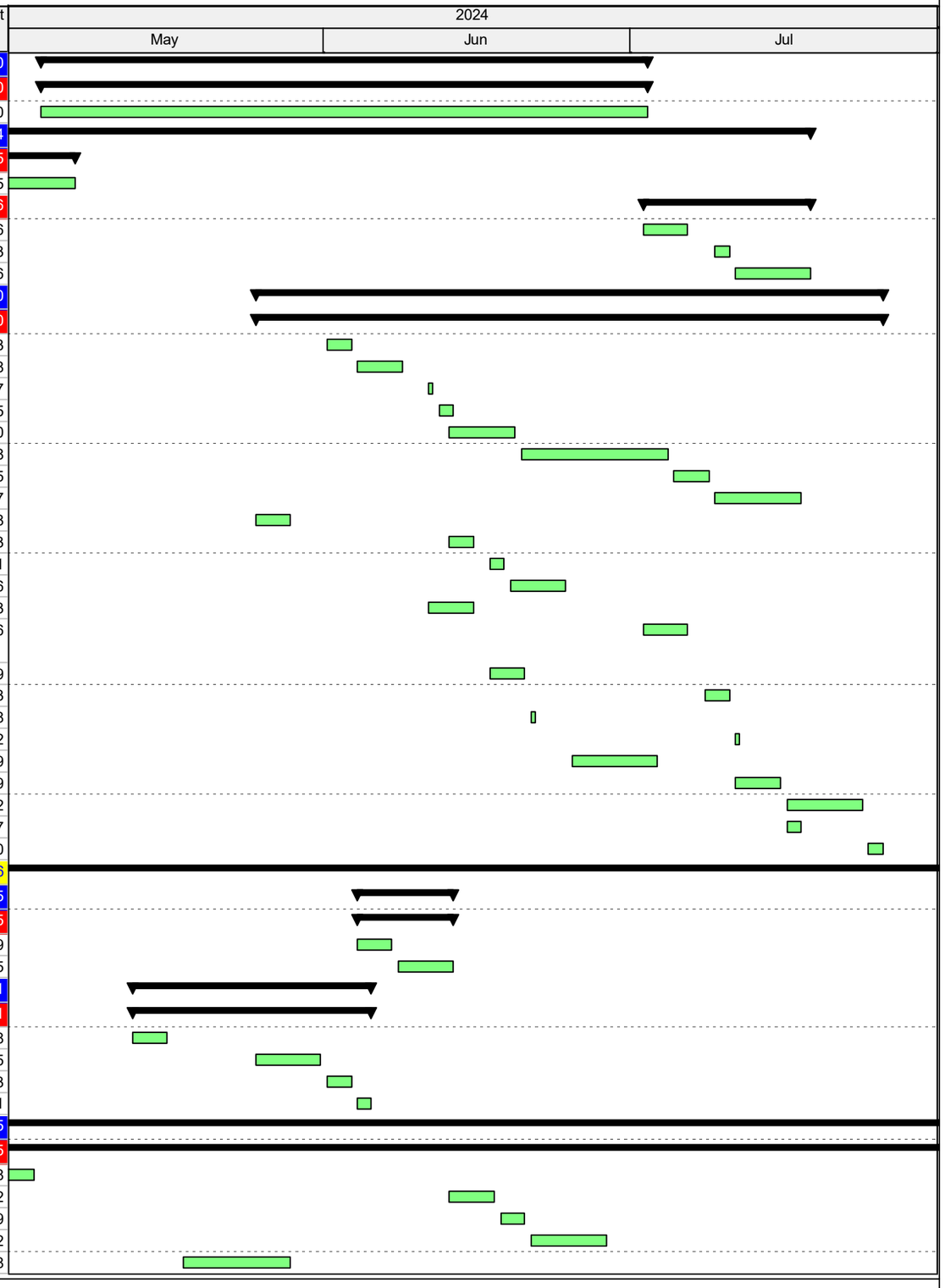
DD: 30-Apr-24

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Z3_5590	Zone 3_sign gantry preparation and installation NTE/ST/TAIPO-G39	0	01-Jun-24*	01-Jun-24	236
Road Re-construction		25	12-Apr-24 A	11-May-24	211
Z3_2760b	Zone 3_N/B pavement reconstruction & road resurfacing (Fast Lane) for requested dual 3-lane opening by 31 May 2024	25	12-Apr-24 A	11-May-24	211
Central barrier (New Town Plaza to N263)		41	25-May-24	13-Jul-24	160
C/M_Noise Barrier		41	25-May-24	13-Jul-24	160
Z3_1920	SE1-1_erect steel posts PE1 to PE6 (6nr)	2	01-Jun-24*	03-Jun-24	193
Z3_1970	SE1-1_install noise barrier wall panel PE1 to PE6 (72 sq.m)	1	11-Jun-24*	11-Jun-24	187
Z3_2010	SE1-2_install noise barrier wall panel PE7 to PE26 (320 sq.m)	2	25-May-24*	27-May-24	199
Z3_2070	SE1-3_install noise barrier wall panel PE27 to PE36 (160 sq.m)	1	17-Jun-24*	17-Jun-24	182
Z3_2210	SE1-4_install noise barrier wall panel PE37 to PE54 (272 sq.m)	2	08-Jul-24*	09-Jul-24	164
Z3_2250	SE1-5_install noise barrier wall panel PE55 to PE68 (208 sq.m)	2	11-Jul-24*	12-Jul-24	161
Z3_2280	SE1-6_install noise barrier wall panel PE69 to PE72 (64 sq.m)	1	13-Jul-24*	13-Jul-24	160
Central barrier (N263 to NF40)		62	02-Apr-24 A	26-Jun-24	150
C/M_Noise Barrier		62	02-Apr-24 A	26-Jun-24	150
Z3_2330	SE2_erect steel posts PM1 to PM6 (6nr)	3	17-May-24*	20-May-24	205
Z3_2360	SE2_install noise barrier wall panel PM1 to PM6 (71 sq.m)	1	01-Jun-24*	01-Jun-24	194
Z3_2390	N1_erect steel posts PM7 to PM15 (9nr)	4	21-May-24*	24-May-24	201
Z3_2400	N1_install noise barrier wall panel PM7 to PM15 (256 sq.m)	2	03-Jun-24*	04-Jun-24	192
Z3_2410a	SE5-1_erect steel posts PS1 to PS6 (6nr)	3	06-May-24*	08-May-24	214
Z3_2440	SE4_install noise barrier wall panel PM16 to PM30 (224 sq.m)	2	05-Jun-24*	06-Jun-24	190
Z3_2470	SE5-1_erect steel posts PS6 to PS15 (9nr)	4	24-May-24*	28-May-24	198
Z3_2500	SE5-1_install noise barrier wall panel PS1 to PS15 (224 sq.m)	2	18-Jun-24*	19-Jun-24	180
Z3_2529	Fabrication of structural steel (PS16 to PS48)	54	02-Apr-24 A	06-Jun-24	-248
Z3_2530	SE5-2_erect steel posts PS16 to PS48 (33nr)	16	07-Jun-24*	26-Jun-24	-226
Southbound (New Town Plaza to N263)		1083	08-Jun-20 A	31-Jul-24	125
Retaining Wall RW4		48	18-Mar-24 A	18-May-24	206
RW4_Sub-Structure		48	18-Mar-24 A	18-May-24	206
Z3_4780	RW4_drainage M/H MS05 to ME01 including road gullies	36	18-Mar-24 A	03-May-24	218
Z3_4790	RW4_remove ELS / backfill of Bay 401 to Bay 404 (48m_2 sides)	12	04-May-24*	18-May-24	206
Z3_4820	RW4_retaining wall construction to Bay 405 to Bay 409 (5bays x 12m x 3.3m	20	15-Apr-24 A	10-May-24	-227
Z3_4825	RW4_road drainage (gullies) Bay 405 to Bay 409	6	11-May-24*	18-May-24	206
Z3_4830	RW4_remove ELS & backfill of Bay 405 to Bay 409 (60m_2sides)	10	07-May-24	18-May-24	-227
S1E6-51P & S1E5-51 & L-Shaped wall		104	05-Apr-24 A	31-Jul-24	125
S1E6-51P & S1E5-51_UU diversion		51	05-Apr-24 A	22-May-24	175
Z3_3210a	Sewerage diversion of FM2 825mm remaining 1 new manhole and connection to existing sewer FMH4038025	28	05-Apr-24 A	22-May-24	203
Z3_3210b	HKT manhole & cable duct	15	29-Apr-24 A	17-May-24	207
S1E6-51P & S1E5-51_Sub-Structure		86	29-Apr-24 A	31-Jul-24	145
Z3_1525	SE1-5_pile cap / stem wall construction S1E5-51	12	30-Apr-24 A	17-May-24	-234
Z3_1544	SE1-6_pile cap / stem wall construction S1E6-51P	11	30-Apr-24 A	17-May-24	-234
Z3_1545	L-shaped Wall - Construction	10	29-Apr-24 A	10-May-24	212
Z3_1545a	No-fines bakcfilling	10	29-Apr-24 A	10-May-24	212
Z3_1546	Backfill / remove ELS /SRT	16	08-May-24	27-May-24	-234
Z3_1549	Slope modification works of Feature No. 7SE-A/FR152 and the associated drainage works	49	03-Jun-24*	31-Jul-24	145
Subway NS30		92	18-Mar-24 A	11-Jul-24	162
Z3_4690_20	NS30_sub-soil drain / drain pipes / catchpits construction(PMI196%130)	18	18-Mar-24 A	04-May-24	217
Z3_4690_50	NS30_finishing works	26	02-Apr-24 A	03-May-24	218
Z3_4690_80	NS30_pump house installation of electrical and control system	9	02-May-24*	11-May-24	211
Z3_4690_90	NS30_pump house testing and commissionijng (T&C)	18	17-May-24*	06-Jun-24	190
Z3_4690_90b	NS30_incoming power suppply cable laying by CLP	12	29-Apr-24 A	04-May-24	217
Z3_4690_90c	NS30_installation of electric meter and power energization	18	03-Jun-24*	24-Jun-24	176
Z3_4690_90d	NS30_testing and commissionijng (T&C)	14	25-Jun-24*	11-Jul-24	162



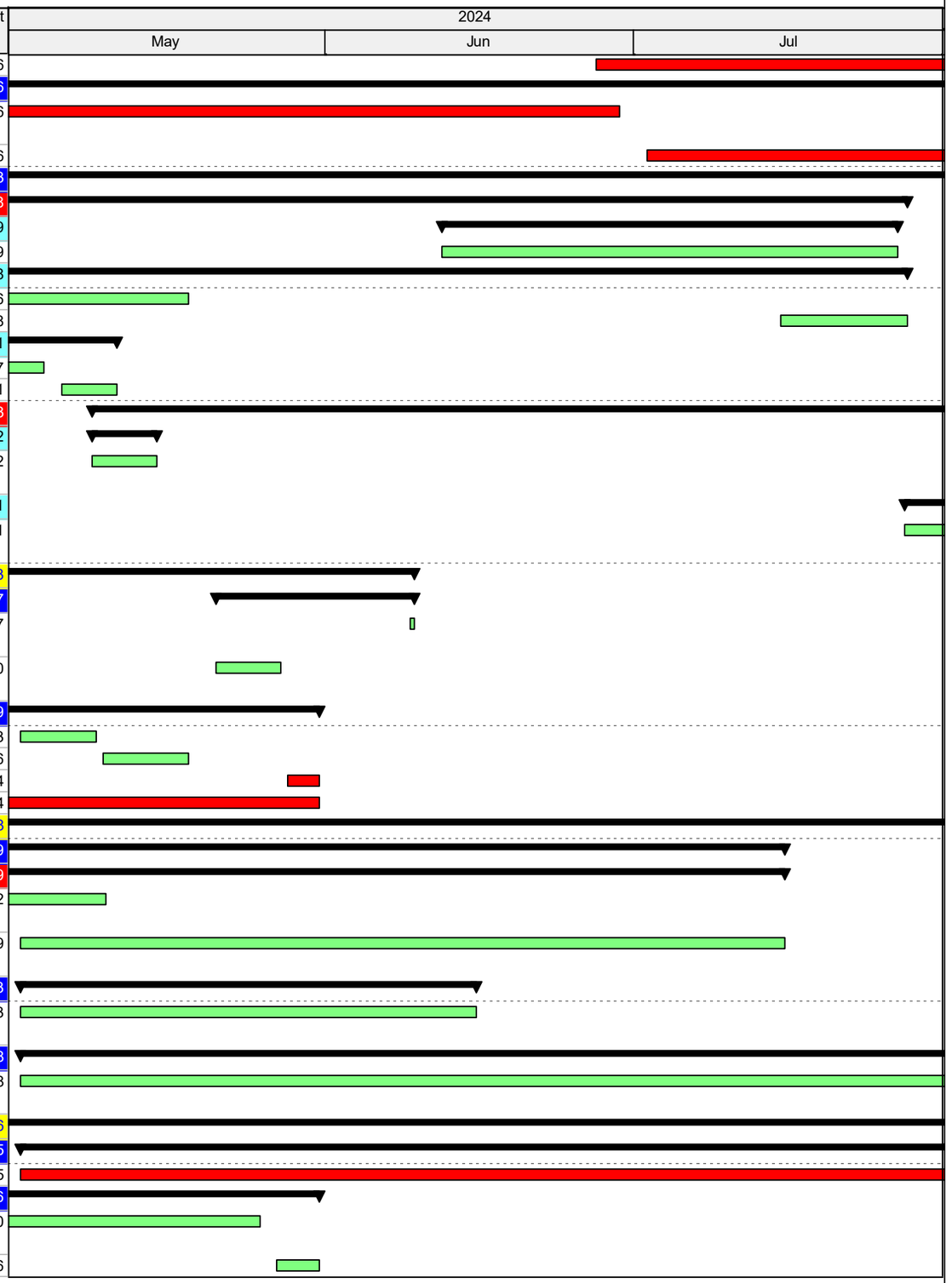
Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Retaining Wall RW2		48	04-May-24	02-Jul-24	170
RW2_UU diversion		48	04-May-24	02-Jul-24	170
Z3_4690b	RW2_cable installation after bitumen pavement (by UU)	48	04-May-24*	02-Jul-24	170
Retaining Wall RW1		1074	08-Jun-20 A	18-Jul-24	134
RW1_UU diversion		1160	08-Jun-20 A	07-May-24	215
Z3_5680	UU_Construct combine UU trough between cycle track and RW1 Stage 1	1160	08-Jun-20 A	07-May-24	215
RW1_Noise Barrier		15	02-Jul-24	18-Jul-24	156
Z3_2140	SE1-4_erect steel arch beam PF37/PG1 to PF54/PG18 (18nr)	5	02-Jul-24*	06-Jul-24	166
Z3_2230	SE1-4_install noise barrier wall panel PF37 to PF54 (411 sq.m)	2	09-Jul-24*	10-Jul-24	163
Z3_2240	SE1-4_install noise barrier roof panel PF37/PG1 to PF54/PG18 (1235 sq.m)	7	11-Jul-24*	18-Jul-24	156
Type SE1 Noise Semi-Enclosure		51	25-May-24	25-Jul-24	150
SE1_Noise Barrier		51	25-May-24	25-Jul-24	150
Z3_1930	SE1-1_erect steel posts PF1 to PF6 (6nr)(PMI-063)(NCE-003)	2	01-Jun-24*	03-Jun-24	193
Z3_1940	SE1-1_erect steel arch beam PE/PF1 to PE/F6 (6nr)(PMI-063)(NCE-003)	5	04-Jun-24*	08-Jun-24	188
Z3_1950	SE1-1_install noise barrier wall panel PF1 to PF6 (203 sq.m)	1	11-Jun-24*	11-Jun-24	187
Z3_1960	SE1-1_install noise barrier roof panel PE/F1 to PE/F6 (280 sq.m)	2	12-Jun-24*	13-Jun-24	185
Z3_1990	SE1-2_erect steel posts PF7 to PF23 (17nr)(PMI-063)(NCE-003)	6	13-Jun-24*	19-Jun-24	180
Z3_2000	SE1-2_erect steel arch beam PE/PF7 to PE/PF23 (17nr)(PMI-063)(NCE-003	12	20-Jun-24*	04-Jul-24	168
Z3_2020	SE1-2_install noise barrier wall panel PF7 to PF26 (598 sq.m)	3	05-Jul-24*	08-Jul-24	165
Z3_2030	SE1-2_install noise barrier roof panel PE/F7 to PE/F26 (1487 sq.m)	8	09-Jul-24*	17-Jul-24	157
Z3_2050	SE1-3_erect steel posts PF24 to PF36 (13nr)(PMI-063)(NCE-003)	3	25-May-24*	28-May-24	198
Z3_2060	SE1-3_erect steel arch beam PE/PF24 to PE/PF36 (17nr)(PMI-063)(NCE-00	3	13-Jun-24*	15-Jun-24	183
Z3_2080	SE1-3_install noise barrier wall panel PF27 to PF36 (257 sq.m)	2	17-Jun-24*	18-Jun-24	181
Z3_2090	SE1-3_install noise barrier roof panel PE/F27 to PE/F36 (958 sq.m)	5	19-Jun-24*	24-Jun-24	176
Z3_2110	SE1-4_erect steel posts PG1 to PG18 (18nr)(PMI-063)(NCE-003)	5	11-Jun-24*	15-Jun-24	183
Z3_2120	SE1-4_erect steel arch beam PE37/PG1 to PE54/PG18 (18nr)(PMI-063)(NCE-003)	5	02-Jul-24*	06-Jul-24	166
Z3_2150	SE1-5_erect steel posts PF55 to PF68 (14nr)(PMI-063)(NCE-003)	4	17-Jun-24*	20-Jun-24	179
Z3_2160	SE1-5_erect steel arch beam PE/F55 to PE/F68 (10nr)(PMI-063)(NCE-003)	3	08-Jul-24*	10-Jul-24	163
Z3_2190	SE1-6_erect steel posts PF69 to PF72 (4nr)(PMI-063)(NCE-003)	1	21-Jun-24*	21-Jun-24	178
Z3_2200	SE1-6_erect steel arch beam PE/F69 to PE/F72 (4nr)(PMI-063)(NCE-003)	1	11-Jul-24*	11-Jul-24	162
Z3_2220	SE1-4_install noise barrier roof panel PE37/PG1 to PE54/PG18 (1235 sq.m)	7	25-Jun-24*	03-Jul-24	169
Z3_2260	SE1-5_install noise barrier wall panel PF55 to PF68 (666 sq.m)	4	11-Jul-24*	15-Jul-24	159
Z3_2270	SE1-5_install noise barrier roof panel PE/F55 to PE/F68 (1232 sq.m)	7	16-Jul-24*	23-Jul-24	152
Z3_2290	SE1-6_install noise barrier wall panel PF69 to PF72 (202 sq.m)	2	16-Jul-24*	17-Jul-24	157
Z3_2300	SE1-6_install noise barrier roof panel PE/F69 to PE/F72 (374 sq.m)	2	24-Jul-24*	25-Jul-24	150
Southbound (N263 to NF40)		122	23-Mar-24 A	10-Sep-24	96
Type SE4 Noise Semi-Enclosure		8	04-Jun-24	13-Jun-24	185
SE4_Noise Barrier		8	04-Jun-24	13-Jun-24	185
Z3_2450	SE4_install noise barrier wall panel PN16 to PN30 (633 sq.m)	4	04-Jun-24*	07-Jun-24	189
Z3_2460	SE4_install noise barrier roof panel PM/N16 to PM/N30 (756 sq.m)	4	08-Jun-24*	13-Jun-24	185
Type SE2 Noise Semi-Enclosure		20	13-May-24	05-Jun-24	191
SE2_Noise Barrier		20	13-May-24	05-Jun-24	191
Z3_2340	SE2_erect steel posts PN1 to PN6 (6nr)(PMI-063)(NCE-003)	3	13-May-24*	16-May-24	208
Z3_2350	SE2_erect steel arch beam PM/N1 to PM/N6 (6nr)(PMI-063)(NCE-003)	6	25-May-24*	31-May-24	195
Z3_2370	SE2_install noise barrier wall panel PN1 to PN6 (291 sq.m)	2	01-Jun-24*	03-Jun-24	193
Z3_2380	SE2_install noise barrier roof panel PM/N1 to PM/N6 (279 sq.m)	2	04-Jun-24*	05-Jun-24	191
Type SE5 Noise Semi-Enclosure		77	29-Apr-24 A	31-Jul-24	145
SE5_Noise Barrier		77	29-Apr-24 A	31-Jul-24	145
Z3_2480	SE5-1_erect steel posts PT1 to PT15 (15nr)(PMI-063)(NCE-003)	4	29-Apr-24 A	03-May-24	218
Z3_2490	SE5-1_erect steel arch beam PS/T1 to PS/T15 (15nr)(PMI-063)(NCE-003)	4	13-Jun-24*	17-Jun-24	182
Z3_2510	SE5-1_install noise barrier wall panel PS1 to PS15 (580 sq.m)	3	18-Jun-24*	20-Jun-24	179
Z3_2520	SE5-1_install noise barrier roof panel PS/T1 to PS/T15 (1329 sq.m)	7	21-Jun-24*	28-Jun-24	172
Z3_2540	SE5-2_erect steel posts PT16 to PT48 (33nr)(PMI-063)(NCE-003)	9	18-May-24*	28-May-24	198

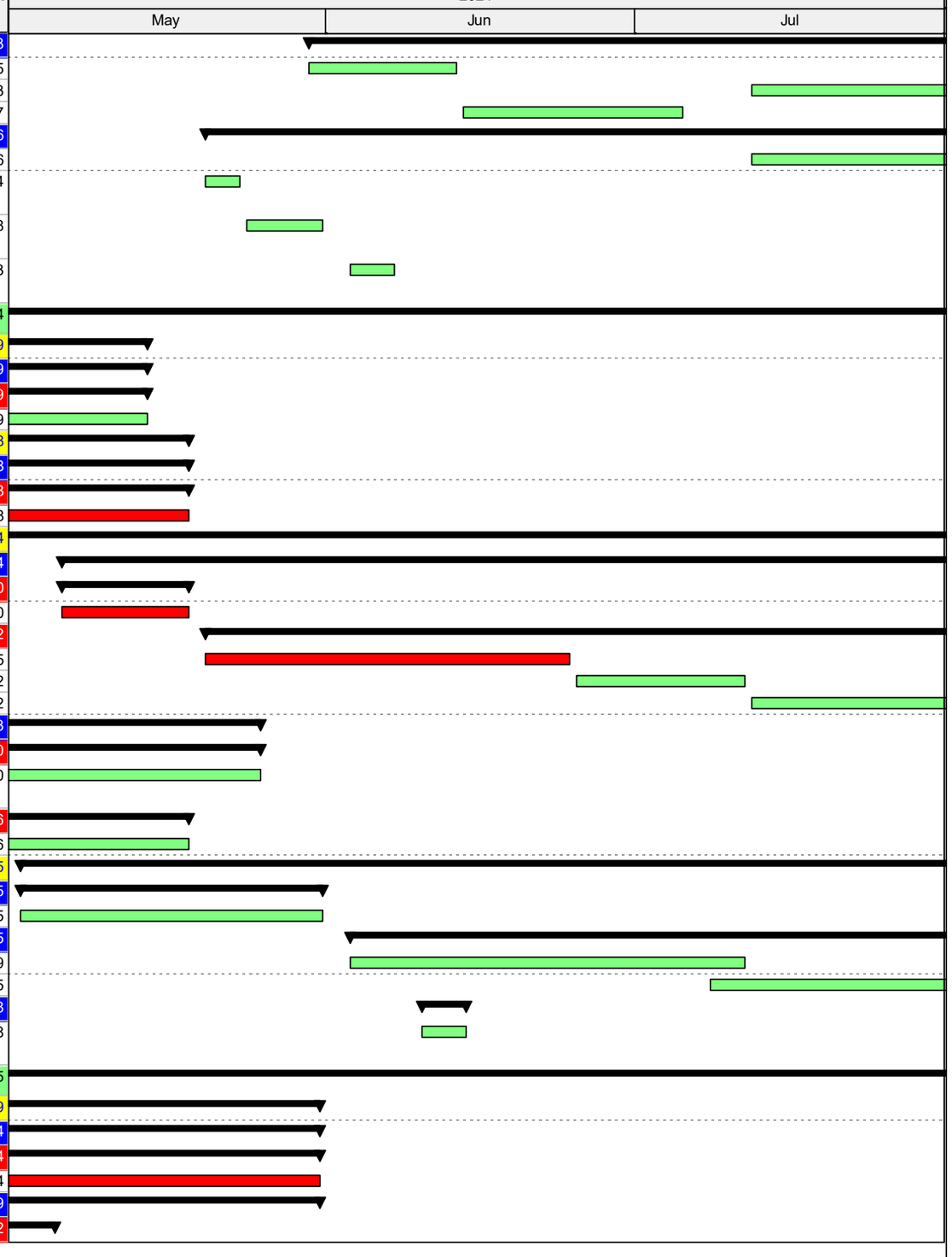


Remaining Level of Effort | Actual Work | Critical Remaining Work | Summary
Actual Level of Effort | Remaining Work | Milestone

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Z3_2550	SE5-2_erect steel arch beam PS/T16 to PS/T48 (15nr)(PMI-063)(NCE-003)	29	27-Jun-24*	31-Jul-24	-226
NEW Cycle Track		138	23-Mar-24 A	10-Sep-24	-236
Z3_4320	Stage 3B - U-shaped wall U-02, CT box structure, CT-PC1 Cap & Column, SR6-1A wall, drainage and Pillar Box	78	23-Mar-24 A	29-Jun-24	-236
Z3_4330	Stage 3C- CT-PM1 Pier, CT U-Shaped Wall, Cycle Track Ramp	61	02-Jul-24	10-Sep-24	-236
Modification Of Existing Retaining Wall SR6		89	16-Apr-24 A	16-Aug-24	113
SR6 Slip Road		74	16-Apr-24 A	27-Jul-24	128
UU diversion		38	12-Jun-24	26-Jul-24	149
Z3_3180	Drainage construction MD01 to MD07 223m (along SR6)	38	12-Jun-24*	26-Jul-24	149
Sub-Structure		85	16-Apr-24 A	27-Jul-24	148
Z3_1739b	D2_SR6-1A_parapet	27	16-Apr-24 A	18-May-24	206
Z3_1760	SE8-1A_backfill & remove ELS (SR6 2-A to SR6 3-A) (2nr)	12	15-Jul-24*	27-Jul-24	148
Noise Barrier		12	27-Apr-24 A	11-May-24	211
Z3_2660	SE8-2_install noise barrier wall panel PR16 to PR32	6	27-Apr-24 A	04-May-24	217
Z3_2670	SE8-2_install noise barrier roof panel PQ/R16 to PQ/R32	6	06-May-24*	11-May-24	211
SR6 Road		72	09-May-24	16-Aug-24	113
Sign Gantry		7	09-May-24	15-May-24	252
Z3_5610b	Zone 3_sign gantry preparation and installation NTE/ST/TIAPO-45C (S/B supported at S5E1-01P, S4E1-55 and Bay SR607)	7	09-May-24*	15-May-24	252
Road Re-construction		18	27-Jul-24	16-Aug-24	131
Z3_3190	Zone 3_Slip 6 (SR6)_road flexible pavement Type III (625mm thk.) / deep inlay Type II (105mm)) 2-Lanes	18	27-Jul-24*	16-Aug-24	131
Southbound Main Road (Tai Po Road)		35	22-Apr-24 A	09-Jun-24	163
Sign Gantry		20	21-May-24	09-Jun-24	227
Z3_5610	Zone 3_sign gantry preparation and installation TGS 9 (S/B supported at S1E1-51P and S1E1-01P)	1	09-Jun-24*	09-Jun-24	227
Z3_5610a	Zone 3_sign gantry preparation and installation FVMS (S/B next to N263, supported at S2E1-01 and S2E1-51P)	7	21-May-24*	27-May-24	240
Road Re-construction		29	22-Apr-24 A	31-May-24	169
Z3_3260b	Zone 3_S/B pavement reconstruction fast lane	7	02-May-24*	09-May-24	213
Z3_3260c	Zone 3_S/B pavement reconstruction middle lane	7	10-May-24*	18-May-24	206
Z3_3260g	Zone 3_S/B pavement reconstruction (Under SR2)	3	28-May-24*	31-May-24	-234
Z3_3260h	Zone 3_S/B pavement reconstruction (RW4)	32	22-Apr-24 A	31-May-24	-234
Zone 3 Bridge		350	01-Apr-24 A	31-Aug-24	118
N263		309	01-Apr-24 A	15-Jul-24	159
DECK CONSTRUCTION OF BRIDGE N263		309	01-Apr-24 A	15-Jul-24	159
Z3_5940	N263_Remaining works of concrete infill between the precast concrete profile barriers at the central divider under N263	32	01-Apr-24 A	10-May-24	212
Z3_5950	N263_Remaining works of traffic island, permanent traffic light, traffic signs, ATC&PL ducting and street furniture work	61	02-May-24*	15-Jul-24	159
N264		37	02-May-24	15-Jun-24	183
Z3_5911	N264_remaining works of footpath and cycle track pavement construction and street furniture works	37	02-May-24*	15-Jun-24	183
Lift 2		102	02-May-24	31-Aug-24	118
Z3_3868	Staircase_construct permanent footpath between L2S-PF1 and existing subway NS32	102	02-May-24*	31-Aug-24	118
Lighting and E&M		142	08-Apr-24 A	22-Oct-24	66
FVMS under N263		75	02-May-24	31-Jul-24	-235
Z3_7100	Submission of System proposal and shop drawing for approval	75	02-May-24	31-Jul-24	-235
Temporary		44	08-Apr-24 A	31-May-24	196
Z3_5001	Temporary lighting installation including its accessories and Cable connection	40	08-Apr-24 A	25-May-24	200
Z3_5002	Joint Inspection	4	27-May-24*	31-May-24	196

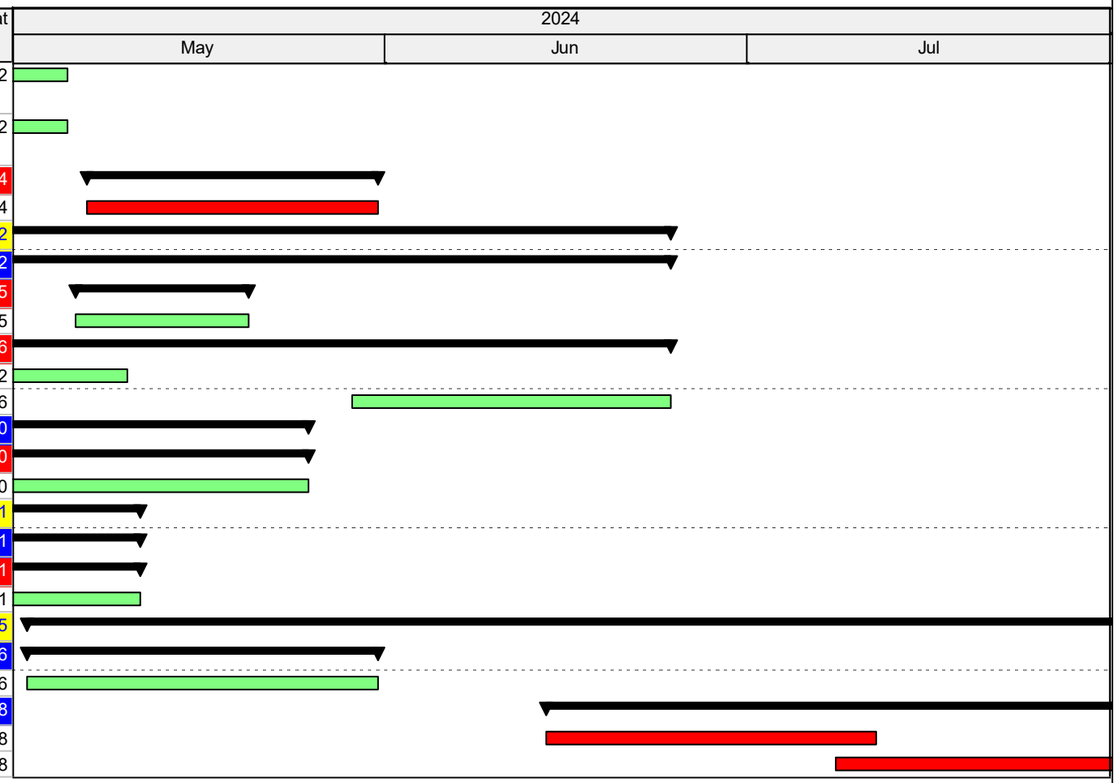


Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
	Underground work for Road lighting system and TCSS system	54	30-May-24	02-Aug-24	143
Z3_5006	Inspection of civil provision	12	30-May-24*	13-Jun-24	185
Z3_5007	Cable laying for Road lighting system	19	12-Jul-24*	02-Aug-24	143
Z3_5011	Cable laying for TCSS system	18	14-Jun-24*	05-Jul-24	167
	Aboveground work for Road lighting system and TCSS system	112	20-May-24	22-Oct-24	66
Z3_5004	Cable containment work and wiring work for Road lighting system	73	12-Jul-24*	22-Oct-24	66
Z3_5008	Cable containment work, wiring work and Istallation of field equipments for TCSS system (TGS 9)	4	20-May-24*	23-May-24	174
Z3_5009	Cable containment work, wiring work and Istallation of field equipments for TCSS system (TAIPO 45C)	6	24-May-24*	31-May-24	168
Z3_5010	Cable containment work, wiring work and Istallation of field equipments for TCSS system (G39)	5	03-Jun-24*	07-Jun-24	163
Zone 4		163	02-Jan-24 A	15-Aug-24	114
Northbound		107	02-Jan-24 A	14-May-24	209
Type N4 Noise Barrier		107	02-Jan-24 A	14-May-24	209
N4_Noise Barrier		107	02-Jan-24 A	14-May-24	209
Z4_1040	N4_install noise barrier wall panel PK134a to PK193 (1421 sq.m)	107	02-Jan-24 A	14-May-24	209
Central barrier		16	29-Apr-24 A	18-May-24	-238
Type SE6 Noise Semi-Enclosure		16	29-Apr-24 A	18-May-24	-238
SE6_Noise Barrier		16	29-Apr-24 A	18-May-24	-238
Z4_1170	SE6_erect steel posts PU1 to PU59 (55nr)(PMI-063)(NCE-003)	16	29-Apr-24 A	18-May-24	-238
Southbound		109	18-Mar-24 A	15-Aug-24	114
Type SE6 Noise Semi-Enclosure		74	06-May-24	15-Aug-24	114
SE6_UU diversion		11	06-May-24	18-May-24	0
Z4_1380	Zone 4 S/B Construction of remaining cross road drainage (Slow Lane)	11	06-May-24*	18-May-24	0
SE6_Noise Barrier		74	20-May-24	15-Aug-24	132
Z4_1190	SE6_erect steel arch beam PU/V1 to PU/V59 (59nr)(PMI-063)(NCE-003)	30	20-May-24*	24-Jun-24	-215
Z4_1200	SE6_install noise barrier wall panel PV1 to PV59 (2043 sq.m)	14	25-Jun-24	11-Jul-24	132
Z4_1210	SE6_install noise barrier roof panel PU/V1 to PU/V59 (2919 sq.m)	30	12-Jul-24*	15-Aug-24	132
Southbound Tai Po Road		35	18-Mar-24 A	25-May-24	173
Sign Gantry		9	24-Apr-24 A	25-May-24	200
Z4_1420	Zone 4_sign gantry preparation and installation FADS-T1 (S/B supported at S6E1-01A and S6E1-51P)	9	24-Apr-24 A	25-May-24	200
Road Re-construction		18	18-Mar-24 A	18-May-24	206
Z4_1260b	Zone 4_S/B pavement reconstruction to final level (fast lane)	18	18-Mar-24 A	18-May-24	206
Lighting and E&M		65	02-May-24	31-Jul-24	125
Temporary		25	02-May-24	31-May-24	195
Z4_1092	Joint Inspection	25	02-May-24*	31-May-24	195
Underground work for Road lighting system and TCSS system		43	03-Jun-24	31-Jul-24	125
Z4_1096	Inspection of civil provision	29	03-Jun-24*	11-Jul-24	139
Z4_1099	Cable laying for TCSS System	18	08-Jul-24*	31-Jul-24	125
Aboveground work for Road lighting system and TCSS system		5	10-Jun-24	14-Jun-24	158
Z4_1098	Cable containment work, wiring work and Istallation of field equipments for TCSS system (FADS T1)	5	10-Jun-24*	14-Jun-24	158
Zone 5		109	11-Apr-24 A	31-Jul-24	125
Northbound		28	24-Apr-24 A	31-May-24	169
Type N4 Noise Barrier		31	24-Apr-24 A	31-May-24	-234
N4_UU diversion		31	24-Apr-24 A	31-May-24	-234
Z5_1500J	Zone 5_N/B Construction of remaining cross road drainage (Middle Lane)	31	24-Apr-24 A	31-May-24	-234
Northbound Tai Po Road		27	24-Apr-24 A	31-May-24	169
Sign Gantry		23	24-Apr-24 A	05-May-24	262



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Z5_1940	Zone 5_sign gantry preparation and installation FADS-N1 (N/B supported by N4-35 and S3E1-07)	12	24-Apr-24 A	05-May-24	262
Z5_1950	Zone 5_sign gantry preparation and installation NTE/ST/TAIPO-XG34 (NT3831) (N/B suppoted at (N4-53 and S3E1-21P)	12	24-Apr-24 A	05-May-24	262
Road Re-construction		20	07-May-24	31-May-24	-234
Z5_1500e	Zone 5_N/B reconstruction of flexible pavement Middle Lane	20	07-May-24*	31-May-24	-234
Southbound		82	24-Apr-24 A	24-Jun-24	152
Type SE3-1 Noise Semi-Enclosure		55	24-Apr-24 A	24-Jun-24	152
SE3-1_UU diversion		12	06-May-24	20-May-24	205
Z5_1500h	Zone 5_S/B Construction of remaining cross road drainage	12	06-May-24*	20-May-24	205
SE3-1_Noise Barrier		63	24-Apr-24 A	24-Jun-24	176
Z5_1370	SE3-1_erect steel arch beam PX/Y1 to PX/Y78 (78nr)(PMI-063)(NCE-033)	27	24-Apr-24 A	10-May-24	212
Z5_1390	SE3-1_install noise barrier roof panel PX/Y1 to PX/Y78 (4217 sq.m)	22	29-May-24*	24-Jun-24	176
Type SE3-2 Noise Semi-Enclosure		24	25-Apr-24 A	25-May-24	200
SE3-2_Noise Barrier		24	25-Apr-24 A	25-May-24	200
Z5_1410	SE3-2_install noise barrier roof panel PX/Y79 to PX/Y112 (1402 sq.m)	24	25-Apr-24 A	25-May-24	200
SR8		26	11-Apr-24 A	11-May-24	211
SR8 Road		26	11-Apr-24 A	11-May-24	211
Road Re-construction		26	11-Apr-24 A	11-May-24	211
Z5_1601	Zone 5_S/B Slip Road 8 drainage works (MS128A to MS124)	26	11-Apr-24 A	11-May-24	211
Lighting and E&M		65	02-May-24	31-Jul-24	125
Temporary		24	02-May-24	31-May-24	196
Z5_1012	Joint Inspection	24	02-May-24*	31-May-24	196
Underground work for Road lighting system and TCSS system		34	14-Jun-24	31-Jul-24	-208
Z5_1016	Inspection of civil provision	20	14-Jun-24	11-Jul-24	-208
Z5_1017	Cable laying for TCSS	18	08-Jul-24	31-Jul-24	-208



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

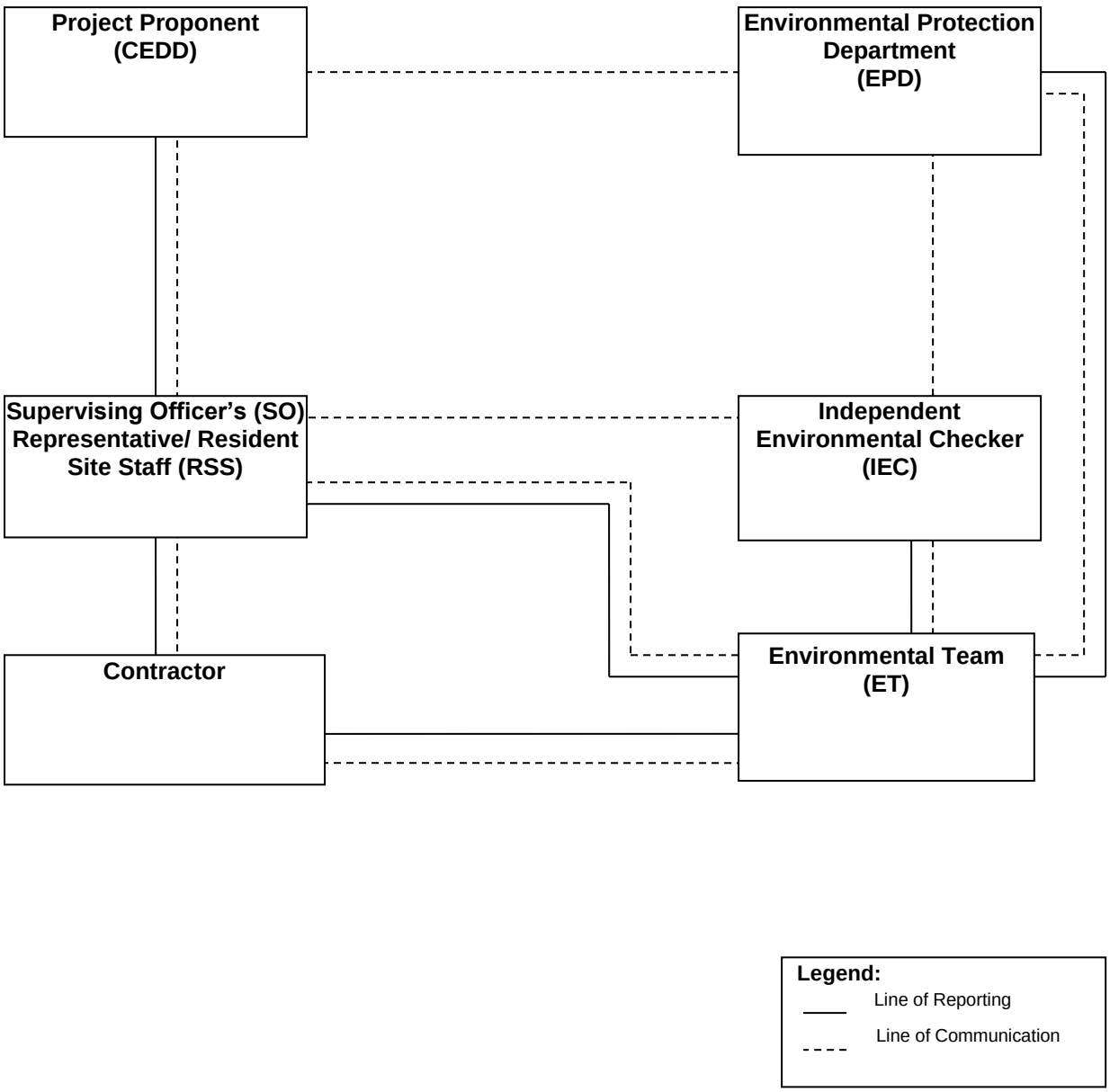
Appendix B

Project Organization Chart

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com



FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix C

Action and Limit Levels for Air Quality and Noise

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

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

Parameter	Monitoring Station	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/ m^3$)
24-hr TSP ($\mu g/m^3$)	AMS5	156	260
	AMS7A	171	
	AMS14	174	
	AMS15	172	
1-hr TSP ($\mu g/m^3$)	AMS5	340	500
	AMS7A	344	
	AMS14	350	
	AMS15	350	

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

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

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

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix D

Calibration Certificates of Monitoring Equipment

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no. : 940891CA232374(4)

CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT -

Description	: Laser Dust Monitor
Manufacturer	: SIBATA
Model No.	: LD-5R
Serial No.	: 114892
Next Calibration Date	: 23-Aug-2024

Laboratory Information

Details of Reference Equipment -

Description	: Reference balance
Equipment ID.	: C-065-5
Date of Calibration	: 25-Aug-2023 Ambient Temperature : 31 °C
Calibration Location	: Calibration Lab. of FTS
Method Used	: By direct comparison the weight of dust particle trapped in a filter paper using high volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same location and powered on and off at the same time.

Calibration Results :

Reference concentration (mg/m^3)	Total count for 1 hour	CPM (Count per minute)
0.0545	1165	19.42
0.0587	1312	21.87
0.0775	1259	20.98

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.
2. The interpolation equation : Concentration (mg/m^3) = K x UUT reading (CPM) where K = 0.002660
3. Correlation coefficient (r) : 0.9999

Checked by : _____ Date : 15-12-2023 Certified by : K.T.Leung Date : 18-12-2023

CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

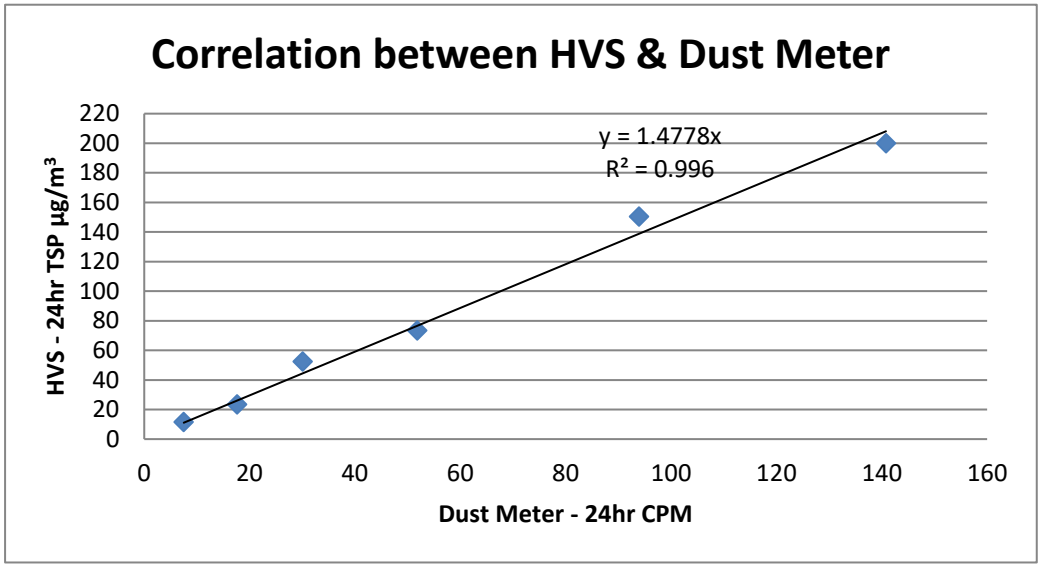
** End of Report **

Correlation between HVS & Dust Meter

Model: Sibata LD-5R

Serial No: 114892

HVS - 24hr TSP µg/m^3	11.64	23.41	52.47	73.39	150.53	199.99
Dust Meter - 24hr CPM	7.5	17.6	30.1	51.8	93.9	140.8



K factor = 2.660

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no. : 940891CA232374(2)

CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT -

Description : Laser Dust Monitor

Manufacturer : SIBATA

Model No. : LD-5R

Serial No. : 114894

Next Calibration Date : 23-Aug-2024

Laboratory Information

Details of Reference Equipment -

Description : Reference balance

Equipment ID. : C-065-5

Date of Calibration : 25-Aug-2023 Ambient Temperature : 31 °C

Calibration Location : Calibration Lab. of FTS

Method Used : By direct comparison the weight of dust particle trapped in a filter paper using high volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same location and powered on and off at the same time.

Calibration Results :

Reference concentration (mg/m^3)	Total count for 1 hour	CPM (Count per minute)
0.0545	1103	18.38
0.0587	1345	22.42
0.0775	1256	20.93

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.
2. The interpolation equation : Concentration (mg/m^3) = K x UUT reading (CPM) where K = 0.002683
3. Correlation coefficient (r) : 0.9989

Checked by : _____ Date : 18-12-2023 Certified by : K.T. Leung Date : 18-12-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

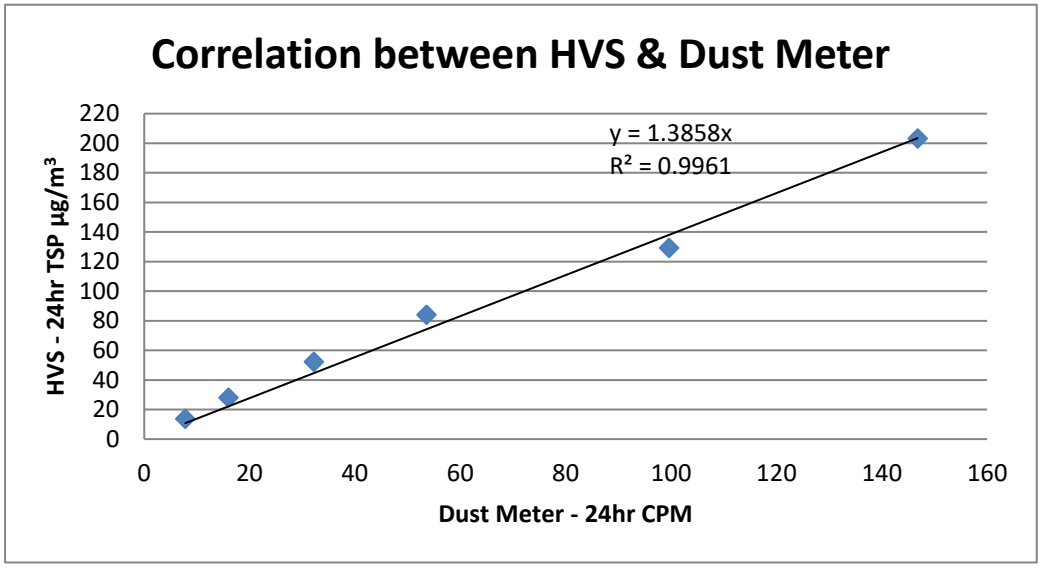
** End of Report **

Correlation between HVS & Dust Meter

Model: Sibata LD-5R

Serial No: 114894

HVS - 24hr TSP µg/m^3	13.84	27.99	52.17	84.06	129.34	203.3
Dust Meter - 24hr CPM	7.8	16	32.2	53.6	99.6	146.8



K factor = 2.683

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no. : 940891CA232374(1)

CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT -

Description : Laser Dust Monitor

Manufacturer : SIBATA

Model No. : LD-5R

Serial No. : 114895

Next Calibration Date : 23-Aug-2024

Laboratory Information

Details of Reference Equipment -

Description : Reference balance

Equipment ID. : C-065-5

Date of Calibration : 25-Aug-2023 Ambient Temperature : 31 °C

Calibration Location : Calibration Lab. of FTS

Method Used : By direct comparison the weight of dust particle trapped in a filter paper using high volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same location and powered on and off at the same time.

Calibration Results :

Reference concentration (mg/m^3)	Total count for 1 hour	CPM (Count per minute)
0.0545	1701	28.35
0.0587	1832	30.53
0.0775	1782	29.70

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.
2. The interpolation equation : Concentration (mg/m^3) = K x UUT reading (CPM) where K = 0.001870
3. Correlation coefficient (r) : 0.9972

Checked by : Date : 15-12-2023 Certified by : Date : 18-12-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

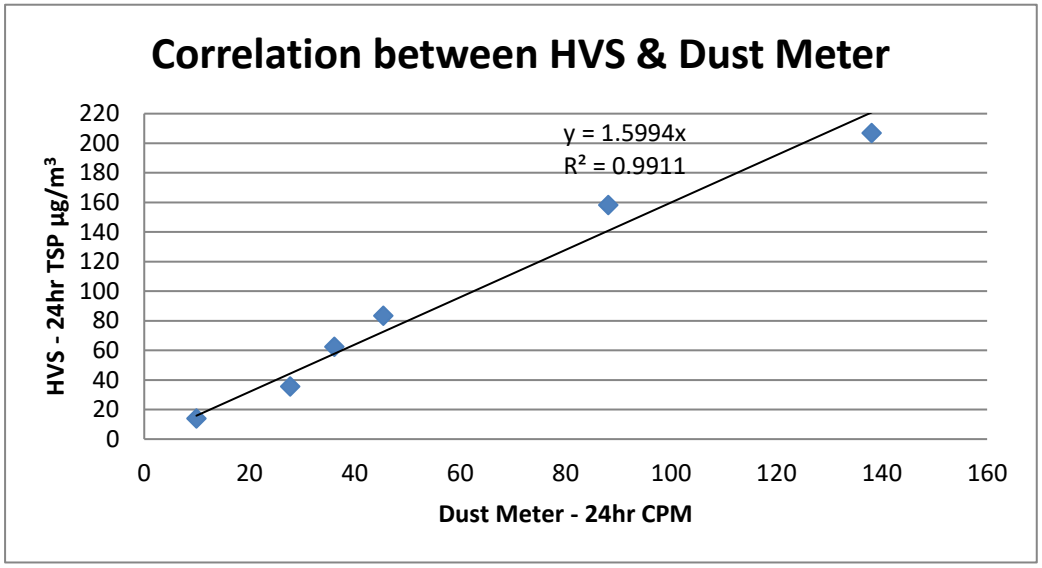
** End of Report **

Correlation between HVS & Dust Meter

Model: Sibata LD-5R

Serial No: 114895

HVS - 24hr TSP µg/m^3	14.06	35.56	62.51	83.37	158.31	206.87
Dust Meter - 24hr CPM	9.9	27.7	36.1	45.4	88.1	138.1



K factor = 1.870

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no. : 940891CA232374

CALIBRATION CERTIFICATE OF DUST METER

Client : Fugro Technical Services Limited

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT -

Description : Laser Dust Monitor

Manufacturer : SIBATA

Model No. : LD-5R

Serial No. : 155716

Next Calibration Date : 23-Aug-2024

Laboratory Information

Details of Reference Equipment -

Description : Reference balance

Equipment ID. : C-065-5

Date of Calibration : 25-Aug-2023 Ambient Temperature : 31 °C

Calibration Location : Calibration Lab. of FTS

Method Used : By direct comparison the weight of dust particle trapped in a filter paper using high volume sampler (TSP method) for a certain period, with the reading of the UUT. They should be placed at the same location and powered on and off at the same time.

Calibration Results :

Reference concentration (mg/m^3)	Total count for 1 hour	CPM (Count per minute)
0.0545	1339	22.32
0.0587	1446	24.10
0.0775	1421	23.68

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.
2. The interpolation equation : Concentration (mg/m^3) = K x UUT reading (CPM) where K = 0.002363
3. Correlation coefficient (r) : 0.9957

Checked by : _____ Date : 15-12-2023 Certified by : K.T.Leung Date : 18-12-2023

CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

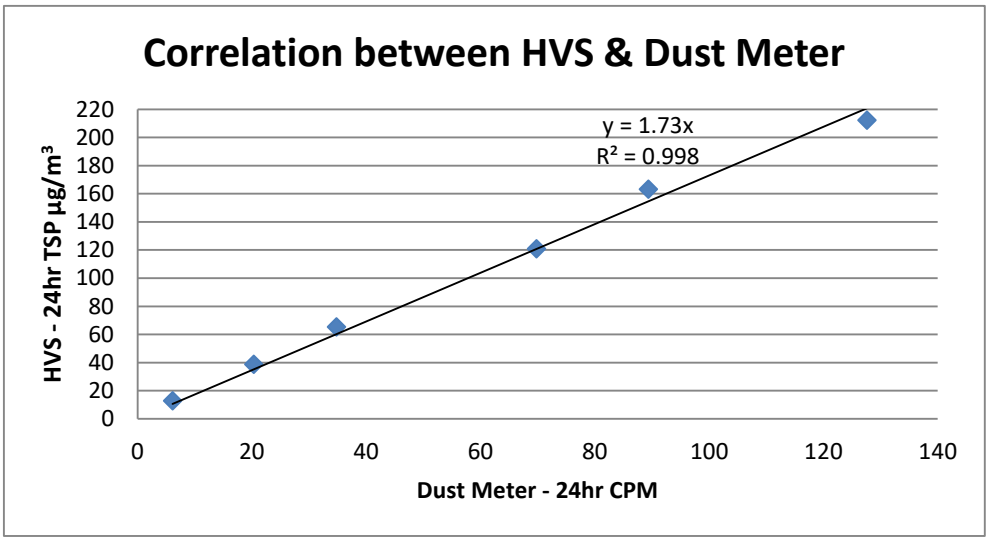
** End of Report **

Correlation between HVS & Dust Meter

Model: Sibata LD-5R

Serial No: 155716

HVS - 24hr TSP µg/m^3	12.89	38.82	65.38	120.88	163.32	212.50
Dust Meter - 24hr CPM	6.1	20.3	34.8	69.8	89.4	127.6



K factor = 2.363

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no.: 212769CA233215

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Fugro Technical Services Ltd.
Project : Calibration Services

Details of Unit Under Test, UUT -

Description : Sound Level Meter
Manufacturer : Casella

	Meter	Microphone	Preamplifier
Model No. :	CEL-63X	CE-251	CEL-495
Serial No. :	0873599	02374	003916

Equipment ID : N/A
Next Calibration Date : 22-Jun-2024
Specification Limit : EN 61672-1: 2003 Class 1

Laboratory Information

Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)
Equipment ID. : R-108-1
Date of Receipt : 14-Jun-2023
Date of Calibration : 23-Jun-2023
Calibration Location : Calibration Laboratory of FTS
Ambient Temperature : 20±2 °C
Method Used : By direct comparison
Relative Humidity : <80% R.H.

Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB)
A-weigthing frequency response	4000Hz	1.6	2.6 to -0.6
	2000Hz	1.4	2.8 to -0.4
	1000Hz	0.0	1.1 to -1.1
	500Hz	-3.4	-1.8 to -4.6
	250Hz	-8.8	-7.2 to -10.0
	125Hz	-16.2	-14.6 to -17.6
	63Hz	-26.3	-24.7 to -27.7
Differential level linearity	94dB-104dB	0.1	± 0.6
	104dB-114dB	0.0	± 0.6

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
3. The mean value is the average of four measurements.
4. The equipment does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
5. The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : _____ Date : 26-6-2023 Certified by : K.T. Leung Date : 26-6-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no.: 212769CA233246

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Materialab Consultants Ltd.
Project : Calibration Services

Details of Unit Under Test, UUT -

Description : Sound Level Meter
Manufacturer : Casella

	Meter	Microphone	Preamplifier
Model No. :	CEL-63X	CE-251	CEL-495
Serial No. :	1488279	02633	004065

Equipment ID : N/A
Next Calibration Date : 04-Jul-2024
Specification Limit : EN 61672-1: 2003 Class 1

Laboratory Information

Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)
Equipment ID. : R-108-1
Date of Receipt : 04-Jul-2023
Date of Calibration : 05-Jul-2023
Calibration Location : Calibration Laboratory of FTS
Method Used : By direct comparison
Ambient Temperature : 20 ± 2 °C
Relative Humidity : <80% RH

Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB)
A-weigthing frequency response	4000Hz	-0.4	2.6 to -0.6
	2000Hz	0.7	2.8 to -0.4
	1000Hz	0.0	1.1 to -1.1
	500Hz	-3.2	-1.8 to -4.6
	250Hz	-8.6	-7.2 to -10.0
	125Hz	-16.0	-14.6 to -17.6
	63Hz	-26.1	-24.7 to -27.7
Differential level linearity	94dB-104dB	0.0	± 0.6
	104dB-114dB	0.1	± 0.6

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
3. The mean value is the average of four measurements.
4. The equipment does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
5. The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : _____ Date : 24-7-2023 Certified by : _____ Date : 24-7-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no.: 212769CA233282

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Materialab Consultants Ltd.
Project : Calibration Services

Details of Unit Under Test, UUT -

Description : Sound Level Meter
Manufacturer : Casella

	Meter	Microphone	Preamplifier
Model No. :	CEL-63X	CE-251	CEL-495
Serial No. :	1488287	03133	003967

Equipment ID : N/A
Next Calibration Date : 18-Jul-2024
Specification Limit : EN 61672-1: 2003 Class 1

Laboratory Information

Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)
Equipment ID. : R-108-1
Date of Receipt : 14-Jul-2023
Date of Calibration : 19-Jul-2023
Calibration Location : Calibration Laboratory of FTS
Ambient Temperature : 20±2 °C
Method Used : By direct comparison
Relative Humidity : <80% R.H.
As Found : Functional / Within specs
As Left : Complies with the specification limits (EN61672-1:2003 Class 1)

Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB)
A-weigthing frequency response	4000Hz	1.1	2.6 to -0.6
	2000Hz	1.3	2.8 to -0.4
	1000Hz	0.0	1.1 to -1.1
	500Hz	-3.3	-1.8 to -4.6
	250Hz	-8.8	-7.2 to -10.0
	125Hz	-16.2	-14.6 to -17.6
	63Hz	-26.3	-24.7 to -27.7
Differential level linearity	94dB-104dB	0.0	± 0.6
	104dB-114dB	0.0	± 0.6

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The UUT does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
4. The mean value is the average of four measurements.
5. The expanded uncertainty of calibration results is 0.6 dB with a coverage factor of 1.98 providing a confidence level of approximate 95%.
6. The values given in this Calibration Certificate only relate to the values at the time of the test and any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : _____ Date : 26-7-2023 Certified by : K.T. Leung Date : 27-7-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no.: 212769CA233450(1)

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Fugro Technical Services Ltd.
Project : Calibration Services

Details of Unit Under Test, UUT -

Description : Sound Level Meter
Manufacturer : Casella

	Meter	Microphone	Preamplifier
Model No. :	CEL-63X	CE-251	CEL-495
Serial No. :	1488295	00995	003341

Equipment ID : N/A
Next Calibration Date : 10-Oct-2024
Specification Limit : EN 61672-1: 2003 Class 1

Laboratory Information

Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)
Equipment ID. : R-108-1

Date of Receipt : 30-Sep-2023
Date of Calibration : 11-Oct-2023
Calibration Location : Calibration Laboratory of FTS
Method Used : By direct comparison
Ambient Temperature : 20±2 °C
Relative Humidity : <80% R.H.

Calibration Results :

Parameters		Mean Value (dB)	Specification Limit(dB)
A-weigthing frequency response	4000Hz	1.2	2.6 to -0.6
	2000Hz	1.2	2.8 to -0.4
	1000Hz	0.0	1.1 to -1.1
	500Hz	-3.3	-1.8 to -4.6
	250Hz	-8.7	-7.2 to -10.0
	125Hz	-16.1	-14.6 to -17.6
	63Hz	-26.2	-24.7 to -27.7
Differential level linearity	94dB-104dB	0.0	± 0.6
	104dB-114dB	0.1	± 0.6

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
4. The UUT does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
5 The values given in this Calibration Certificate only relate to unit under test and the values measured at the time of the test. Any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during tranportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : _____ Date : 16-10-2023 Certified by : K.T. Leung Date : 16-10-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no.: 212769CA233154(1)

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client : Materialab Consultants Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT -

Description	:	Sound Calibrator
Manufacturer	:	Casella (Model CEL-120/1)
Serial No.	:	2092809
Equipment ID	:	N/A

Next Calibration Date : 29-May-2024

Specification Limit : EN 60942: 2003 Class 1

Laboratory Information

Details of Calibration Equipment

Description	:	Reference Sound level meter
Equipment ID.	:	R-119-2

Date of Receipt UUT : 17-May-2023

Date of Calibration : 30-May-2023

Calibration Location : Calibration Laboratory of FTS

Method Used : By direct comparison

Ambient Temperature : 20±2 °C

Relative Humidity : <80% R.H.

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.1 dB	±0.4dB
114dB	-0.2 dB	

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The equipment under test does comply with the specification limit.
4. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

Checked by : _____ Date : 6-6-2023 Certified by : _____ Date : 8-6-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no.: 212769CA233215(1)

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT -

Description	:	Sound Calibrator
Manufacturer	:	Casella (Model CEL-120/1)
Serial No.	:	3321858
Equipment ID	:	N/A

Next Calibration Date : 22-Jun-2024

Specification Limit : EN 60942: 2003 Class 1

Laboratory Information

Details of Calibration Equipment -

Description	:	Reference Sound level meter
Equipment ID.	:	R-119-2

Date of Receipt : 14-Jun-2023

Date of Calibration : 23-Jun-2023

Calibration Location : Calibration Laboratory of FTS

Ambient Temperature : 20 ± 2 °C

Method Used : By direct comparison

Relative Humidity : < 80 %RH

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.1 dB	±0.4dB
114dB	0.0 dB	

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The unit under test complies with the specification limit.
4. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

Checked by : _____ Date : 26-6-2023 Certified by : K.T. Leung Date : 26-6-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no.: 212769CA233450(2)

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client Supplied Information

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT -

Description	:	Sound Calibrator
Manufacturer	:	Casella (Model CEL-120/1)
Serial No.	:	5230736
Equipment ID	:	N/A

Next Calibration Date : 10-Oct-2024

Specification Limit : EN 60942: 2003 Class 1

Laboratory Information

Details of Calibration Equipment -

Description	:	Reference Sound level meter
Equipment ID.	:	R-119-2

Date of Receipt : 30-Sep-2023

Date of Calibration : 11-Oct-2023

Calibration Location : Calibration Laboratory of FTS

Ambient Temperature : 20±2 °C

Method Used : By direct comparison

Relative Humidity : <80% R.H.

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.2 dB	±0.4dB
114dB	-0.2 dB	

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The equipment under test does comply with the specification limit.
4. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

Checked by : _____ Date : 16-10-2023 Certified by : K.T.Leung Date : 16-10-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

T +852 2450 8233 | F +852 2450 6138 | E matlab@fugro.com | W fugro.com

FUGRO TECHNICAL SERVICES LIMITED
Fugro Development Centre
5 Lok Yi Street, Tai Lam
Tuen Mun, NT
Hong Kong

Report no.: 212769CA233276(1)

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR

Client : Materialab Consultants Ltd.

Project : Calibration Services

Client Supplied Information

Details of Unit Under Test, UUT -

Description	:	Sound Calibrator
Manufacturer	:	Casella (Model CEL-120/1)
Serial No.	:	5230758
Equipment ID	:	N/A
Next Calibration Date	:	14-Jul-2024
Specification Limit	:	EN 60942: 2003 Class 1

Laboratory Information

Details of Calibration Equipment -

Description	:	Reference Sound level meter
Equipment ID.	:	R-119-2
Date of Receipt	:	13-Jul-2023
Date of Calibration	:	15-Jul-2023
Calibration Location	:	Calibration Laboratory of FTS
Method Used	:	By direct comparison

Ambient Temperature : 20 ± 2 °C

Relative Humidity : < 80 %RH

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.1 dB	±0.4dB
114dB	-0.1 dB	

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The unit under test complies with the specification limit.
4. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

Checked by : _____ Date : 27-7-2023 Certified by : _____ Date : 27-7-2023

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix E

Environmental Monitoring Schedules, Examination Schedules and Arrangements on Deferral of Class Resumption for All Schools

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

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Apr-24		1	2	3	4	5	6
			AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che	AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che			
			NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26			
	7	8	9	10	11	12	13
		AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che					AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che
		NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26				
	14	15	16	17	18	19	20
						AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che	
						NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26
	21	22	23	24	25	26	27
					AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che		
					NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	
	28	29	30				
			AMS5 Tin Liu AMS7A Sheung Wo Che AMS14 Ha Wo Che AMS15 Ha Wo Che				
		NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27				

Remark

1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.
3. According to the Hong Kong Observatory, anticipated wind directions in April 2024 is east.
4. According to the Contractor, the anticipated major construction activities in the reporting month includes:

1	Road surface Maintenance at Zone 1, 2, 3, 4 and 5
2	Noise Barrier Erection Works at Zone 1, 2, 4 and 5
3	Irrigation Work at Zone 1 and 2
4	Planting Work (Tree / Shrub) at Zone 1 and 2
5	Construction of Draw pit and Pillar box at Zone 2
6	Tree Works (including preservation / felling/ pruning/ transplantation) at Zone 3
7	Reinstatement of footpath and cycle track at Zone 3
8	Construction of Retaining Wall at Zone 3
9	Drainage Works at Zone 3
10	Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works at Zone 3
11	Construction Works for Lift no.1 at Zone 3
12	Construction Works N262 Central median at Zone 3
13	Relocation of Existing Fire Hydrants and relating Watermains at Zone 3
14	Drainage Works + Road diversion+ Asphalt works at Zone 3
15	Piling Work + Construction of Sewage Manhole at Zone 3
16	Construction of Pile Cap at Zone 3
17	Road Construction (Bitumen paving) at Zone 4
18	Drainage Construction Works at Zone 4 and 5
19	Road diversion + Asphalt works at Zone 4
20	Noise Barrier Foundation Works at Zone 5
21	Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope at Zone 5

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

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
May-24				1	2	3	4
							AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che Estate
	5	6	7	8	9	10	11
						AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che Estate	
						NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26
	12	13	14	15	16	17	18
					AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che Estate		
					NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	
	19	20	21	22	23	24	25
				AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che Estate			
				NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27	NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26		
	26	27	28	29	30	31	
			AMS4A Wai Wah Centre AMS7A Sheung Wo Che AMS12 Fung Wo Estate AMS17 Wo Che Estate				
			NMS 8, NMS 9, NMS 10A, NMS 11, NMS 12, NMS 13, NMS 14, NMS17, NMS 19, NMS 20, NMS 24, NMS 25A, NMS 26	NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, NMS 6A, NMS 7, NMS 15, NMS 16, NMS 18,NMS 23, NMS 27			

Remark

1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.
3. According to the Hong Kong Observatory, anticipated wind directions in April 2024 is east.
4. According to the Contractor, the anticipated major construction activities in the reporting month includes:

1	Road surface Maintenance at Zone 1, 2, 4 and 5
2	Noise Barrier Erection Works at Zone 1, 2, 4 and 5
3	Irrigation Work at Zone 1, 2 and 5
4	Planting Work (Tree / Shrub) at Zone 1 and 2
5	Construction of Draw pit and Pillar box at Zone 2
6	Tree Works (including preservation / felling/ pruning/ transplantation) at Zone 3
7	Reinstatement of footpath and cycle track at Zone 3
8	Construction of Retaining Wall at Zone 3
9	Drainage Works at Zone 3
10	Construction Works for N263 & N264 Bridge Deck Widening + Construction of New Abutment Wall + Demolition of Existing Beam/ Slab + Road Diversion + Asphalt Works at Zone 3
11	Construction Works N262 Central median at Zone 3
12	Relocation of Existing Fire Hydrants and relating Watermains at Zone 3
13	Drainage Works + Road diversion+ Asphalt works at Zone 3
14	Piling Work + Construction of Sewage Manhole at Zone 3
15	Construction of Pile Cap at Zone 3
16	Road Construction (Bitumen paving) at Zone 4
17	Drainage Construction Works at Zone 4
18	Road diversion + Asphalt works at Zone 4
19	Slope Landscaping Works + Irrigation System for Landscaping + Drainage Works on Slope at Zone 5

FUGRO TECHNICAL SERVICES LIMITED
Room 723 & 725, 7/F, Block B,
Profit Industrial Building,
1-15 Kwai Fung Crescent, Kwai Fong,
Hong Kong
Tel : (852)-24508238
Fax : (852)-24508032
Email : mcl@fugro.com

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

Regular Night Time Noise Monitoring Schedule (April 2024)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5 Regular night time noise monitoring	6
7	8	9 Regular night time noise monitoring	10	11	12	13
14	15	16	17	18 Regular night time noise monitoring	19	20
21	22	23 Regular night time noise monitoring	24	25	26	27
28	29	30				

Remarks

1. Due to safety concern, 2 staffs will carry out the night time noise monitoring together at all 21 monitoring stations on the same monitoring night of each week.
2. Actual monitoring schedule may be subjected to change due to any safety concern or adverse weather condition.

FUGRO TECHNICAL SERVICES LIMITED
Room 723 & 725, 7/F, Block B,
Profit Industrial Building,
1-15 Kwai Fung Crescent, Kwai Fong,
Hong Kong
Tel : (852)-24508238
Fax : (852)-24508032
Email : mcl@fugro.com

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

Tentative Regular Night Time Noise Monitoring Schedule (May 2024)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2 Regular night time noise monitoring	3	4
5	6	7 Regular night time noise monitoring	8	9	10	11
12	13	14	15	16 Regular night time noise monitoring	17	18
19	20	21 Regular night time noise monitoring	22	23	24	25
26	27	28	29	30 Regular night time noise monitoring	31	

Remarks

1. Due to safety concern, 2 staffs will carry out the night time noise monitoring together at all 21 monitoring stations on the same monitoring night of each week.
2. Actual monitoring schedule may be subjected to change due to any safety concern or adverse weather condition.

沙田崇真學校 **2023 - 2024**

	周次	日	一	二	三	四	五	六	假期 / 事項
						1	2	3	
二	二十四	**4**	5	6	~~7~~	~~8~~	~~9~~	~~10~~	下學期開始(5/2) 跨學科活動日(6/2)
	二十五	~~**11**~~	~~12~~	~~13~~	~~14~~	~~15~~	~~16~~	~~17~~	農曆新年假期(7/2-17/2)
月	二十六	**18**	19	20	21	22	23	24	升中家長座談會(24/2 上午)六年級預考周(26/2-5/3)
	二十七	**25**	26	27	28	29			一至五年級階段性評估預備周 (26/2-5/3)
							1	2	
三	二十八	**3**	4	⑤	6	7	8	9	一至五年級階段性評估(6-7/3，11-12/3)
	二十九	**10**	11	12	13	14	15	~~16~~	六年級報分試(6-12/3) 教師專業發展日(16/3)
	三十	**17**	18	19	20	21	22	23	
月	三十一	**24**	~~25~~	26	㉗	~~28~~	~~29~~	~~30~~	學校籌款(24/3) 補假(25/3)
	三十二	~~**31**~~							福音周及復活節崇拜(26-27/3)
			~~1~~	~~2~~	~~3~~	~~4~~	~~5~~	~~6~~	復活節及清明節假期(28/3-6/4)
四	三十三	**7**	8	9	10	11	12	13	升中家長座談會(10/4 晚上，13/4 上午)
	三十四	**14**	15	16	17	18	19	20	一至六年級家長日(20/4) 零功課日(24/4)
月	三十五	**21**	22	23	24	25	26	27	綜藝晚會綵排(29/4) 綜藝晚會 (30/4)
	三十六	**28**	㉙	30					(29-30/4 表演生出席，非表演生無須上課)
					~~1~~	2	3	4	勞動節假期(1/5) 拍住上辯論賽(4/5)
五	三十七	**5**	6	7	8	9	10	11	
	三十八	**12**	13	14	~~15~~	16	17	18	公眾假期(15/5) 一至六年級預考周(20-28/5)
月	三十九	**19**	20	21	22	23	24	25	一至四、六年級考試(29-30/5，3-4/6)
	四十	**26**	27	㉘	29	30	31		五年級報分試(29/5-4/6)
								1	
六	四十一	**2**	3	4	5	6	7	8	
	四十二	**9**	~~10~~	11	12	13	14	15	端午節假期(10/6) 小一新生家長座談會(15/6 上午)
	四十三	**16**	17	⑱	⑲	20	21	㉒	一至五年級升中家長座談會(22/6 上午)
月	四十四	**23**	㉔	㉕	㉖	㉗	㉘	㉙	半天上課(24/6-10/7) 畢業禮綵排(26-27/6)
	四十五	**30**							畢業禮(28/6)
			~~1~~	~~2~~	③	④	⑤	6	香港特區成立紀念日(1/7) 畢業禮補假(2/7)
七	四十六	**7**	⑧	⑨	⑩	~~11~~	~~12~~	~~13~~	中學學位分配結果公佈(9/7) 結業禮(10/7)
	四十七	~~**14**~~	~~15~~	~~16~~	~~17~~	~~18~~	~~19~~	~~20~~	教師專業發展日(11/7) 五年級家長日(13/7 上午)
月	四十八	~~**21**~~	~~22~~	~~23~~	~~24~~	~~25~~	~~26~~	~~27~~	暑假(12/7-31/8)
	四十九	~~**28**~~	~~29~~	~~30~~	~~31~~				
						~~1~~	~~2~~	~~3~~	
八	五十	~~**4**~~	~~5~~	~~6~~	~~7~~	~~8~~	~~9~~	~~10~~	
	五十一	~~**11**~~	~~12~~	~~13~~	~~14~~	~~15~~	~~16~~	~~17~~	小一新生家長座談會(17/8 上午)
月	五十二	~~**18**~~	~~19~~	~~20~~	~~21~~	~~22~~	~~23~~	~~24~~	小一適應課程(19-21/8)
	五十三	~~**25**~~	~~26~~	~~27~~	~~28~~	~~29~~	~~30~~	~~31~~	小五小六銜接課程(19-21/8)

聖公會主風小學 2023-2024 年度下學期校曆表

週次	月份	星期 日	一	二	三	四	五	六	行事要項	假期日數
	2024					1	2	3		
①	二	4	5★	6	7	8	9	10	**5/2** 下學期開始　**7/2－17/2** 農曆新年假期	**4**
②	月	11	12	13	14	15	16	17		**7**
③		18	19	20	21	22	23	24		
④		25	26	27	28★	***29***	***1***	2	**28/2** 評估前一天學生 **11** 時 **15** 分放學 **29/2－5/3** 第二次評估／呈分試**(P.6)**	
⑤		3	***4***	***5***	6	7	8	9		
⑥	三	10	11	12	13	14	15	16		
⑦	月	17	18	19★	20	21	22	23	**19/3** 第廿九屆水運會	
⑧		24	25	26	27	28	29	30	**25/3－3/4** 復活節假期	**6**
⑨		31								**1**
			1	2	3	4	5	6	**4/4** 清明節	4
⑩	四	7	8	9	10★	11	12★	13	**10/4** 香港聖公會堂校社服發展日 **12/4** 下學期家長日	
⑪	月	14	15	16	17	18	19	20		
⑫		21	22	23	24	25	26	27		
⑬		28	29	30						
					1	2	3	4	**1/5** 勞動節	**1**
⑭	五	5	6	7	8	9	10	11		
⑮	月	12	13	14	15	16	17	18	**15/5** 佛誕	**1**
⑯		19	20	21	22	23	24	25		
⑰		26	27	28	29★	***30***	***31***		**29/5** 評估前一天學生 **11** 時 **15** 分放學 **30/5－4/6** 第三次評估／呈分試**(P.5)**	
⑱								1		
		2	***3***	***4***	5	6	7	8		
⑲	六	9	10	11	12	13	14	15	**10/6** 端午節	**1**
⑳	月	16	17	18	19	20	21	22		
㉑		23	24	25	26	27	28	29		
㉒		30								
			1	2	3	4	5	6★	**1/7** 香港特別行政區成立紀念日　**6/7** 畢業禮	**1**
㉓	七	7	8	9	10	11	12	13		
	月	14	15	16	17	18	19	20	**16/7－31/8** 暑假	**47**
		21	22	23	24	25	26	27		
		28	29	30	31					

附註：□代表假期　★代表特別事宜

培英中學2023至2024年度校曆表

		日	一	二	三	四	五	六	假期及注意事項
27	三	25	26	27	28	29	Mar 1	2	(26/2-1/3)數學周 (2/3)家長日暨中五多元出路資訊家長講座
28		3	4	5	6	7	8	9	(8/3) 中六級習禮及感恩惜別會
29		10	11	12	13	14	15	16	(11/3)中六級開始溫習應付公開試 (15/3)頒獎禮
30	月	17	18	19	20	21	22	23	(22/3)復活節崇拜會
31		24	25	26△	(27)	(28)	*(29)*	*(30)*	(26/3)全方位學習日(2) (27/3-6/4)復活節及清明節假期共11天
32	四	*(31)*	Apr *(1)*	*(2)*	*(3)*	*(4)*	(5)	(6)	
33		7	8T	9T	10T	11T	12	13	(8-11/4)中一至中五級統一測驗　(9/4-7/5)香港中學文憑考試 (12/4)「學校起動」聯校教師專業發展日
34		14	15	16	17	18	19	20	(15-19/4)個人社會及人文領域周 (15/4)全民國家安全教育日
35	月	21	22	23	24	25△	26	27	(23/4或24/4)中三級全港性系統評估口試　(23/4)下午校慶活動綵排 (24/4)校祖日感恩崇拜暨慶祝活動　(25/4)全方位學習日(3) (26/4)TSA口試後備日
36	五	28	29	30	May *(1)*	2	3	4	(1/5)勞動節假期
37		5	6	7	8	9	10	11	(6-10/5)英語周
38	月	12	13	14	*(15)*	16	17	18	(15/5)佛誕日翌日假期 (13-17/5)科學周
39		19	20	21	22	23	24	25	(24/5下午)畢業典禮　(24/5晚)歡送畢業生暨校友會迎新晚會
40	六	26	27	28	29	30	31	Jun 1	
41		2	3E	4E	5E	6E	7E	8	(3-13/6)中一至中五級下學期考試共8天
42		9	*(10)*	11E	12E	13E	14	15	(10/6)端午節假期 (14-20/6)中一至中四級試後回饋日 (14/6-5/7)中五級試後上課周　(14/6下午)中五級學習概覽寫作工作坊
43		16	17	18	19	20	21	22	(19-20/6)中三級全港性系統評估(中英數) (21-25/6)中一至中五級溫習及補考　(21/6)畢業禮後備日
44	月	23	24	25	26△	27△	28	29	(24/6)中三級全港性系統評估(後備日) (26/6)水運會 (27/6)全方位學習日(4)
45	七	30	Jul *(1)*	2	3	4	5	6	(1/7)香港特別行政區成立紀念日假期
46		7	8	9	10	11	12	13	(8/7) 年終感恩慶典　(8/7)中六級中學文憑考試放榜輔導講座 (9-12/7)升中六備試課程(一) (10/7)學生註冊
47	月	14	*(15)*	*(16)*	*(17)*	*(18)*	*(19)*	*(20)*	**(15/7-31/8)暑假共48天**　(17/7)香港中學文憑考試放榜
48		*(21)*	*(22)*	*(23)*	*(24)*	*(25)*	*(26)*	*(27)*	
49	八	*(28)*	*(29)*	*(30)*	*(31)*	Aug *(1)*	*(2)*	*(3)*	
50		*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	
51		*(11)*	*(12)*	*(13)*	*(14)*	*(15)*	*(16)*	*(17)*	(14-21/8)升中六備試課程(二)
52		*(18)*	*(19)*	*(20)*	*(21)*	*(22)*	*(23)*	*(24)*	
53	月	*(25)*	*(26)*	*(27)*	*(28)*	*(29)*	*(30)*	*(31)*	(27/8)領取書籍校服 (27-30/8)升中導向周
	九月	Sept 1	2	3	4	5	6	7	(2/9)下學年開學禮 (3/9)正式上課

( )- 假期　E- 考試　△特別活動　(12)　教師專業發展日，學生不用上課

JCTIC Student Calendar

2024年4月 (香港標準時間)

週日	週一	週二	週三	週四	週五	週六
31	1	2	3	4	5	6
Easter & Ching Ming Holiday						
7	8	9	10	11	12	13
	Staff Development Day 2 Week 29	Monday Timetable				
14	15	16	17	18	19	20
	Week 30				F.3 Parents' Night	
21	22	23	24	25	26	27
	Week 31	F.3 TSA (Speaking Assessment) (TBC, 23 or 24)			F.5 Parents' Night Fallback Day for F.3 TSA	
28	29	30	1	2	3	4
	Week 32	Wednesday Timetable	Labour Day	Newsletter to Parents (5)		

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix F

Air Quality 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)

AMS5 - Tin Liu

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
2-Apr-24	11:11	48	44	48	47	340	500	Fine
8-Apr-24	13:16	46	46	48	47			Fine
13-Apr-24	13:07	47	49	45	47			Fine
19-Apr-24	12:08	46	48	41	45			Fine
25-Apr-24	12:12	46	48	50	48			Fine
30-Apr-24	08:54	39	41	44	41			Fine

Average	46
Max	50
Min	39

AMS7A - Sheung Wo Che

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
2-Apr-24	12:01	51	51	53	52	344	500	Fine
8-Apr-24	11:55	53	44	51	49			Fine
13-Apr-24	13:03	51	50	54	52			Fine
19-Apr-24	09:03	53	51	44	49			Fine
25-Apr-24	15:49	53	47	51	50			Fine
30-Apr-24	08:04	47	51	47	48			Fine

Average	50
Max	54
Min	44

AMS14 - Ha Wo Che

1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
2-Apr-24	12:47	47	41	45	44	350	500	Fine
8-Apr-24	09:51	47	37	45	43			Fine
13-Apr-24	09:42	49	50	49	49			Fine
19-Apr-24	13:43	47	49	41	46			Fine
25-Apr-24	13:45	43	45	43	44			Fine
30-Apr-24	07:41	45	47	41	44			Fine

Average	45
Max	50
Min	37

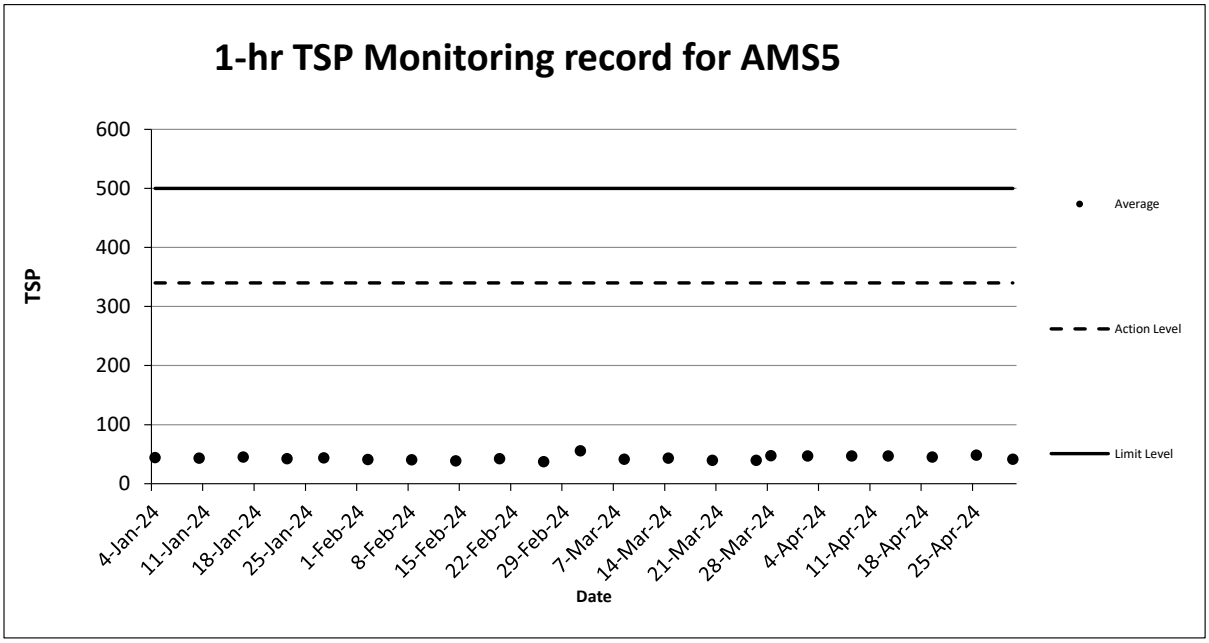
AMS 15 - Ha Wo Che

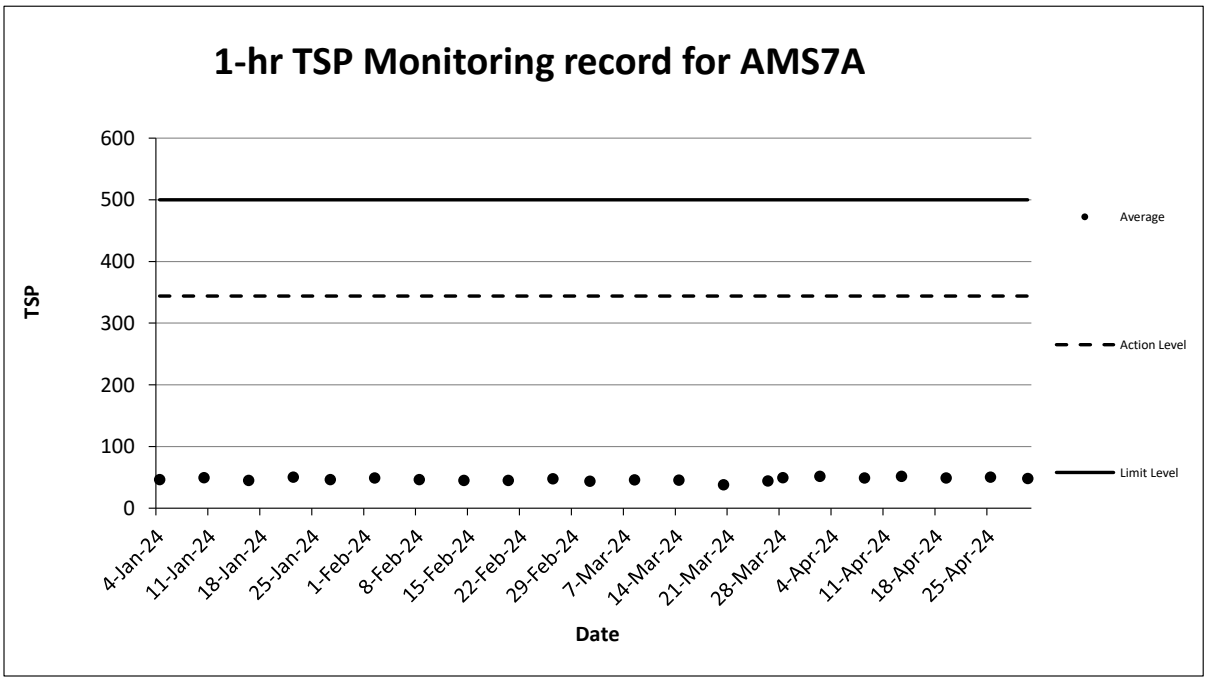
1-hour TSP (μg/m³)								
Date	**Start Time**	**1st hr**	**2nd hr**	**3rd hr**	**Average**	**Action Level**	**Limit Level**	**Weather**
2-Apr-24	15:30	52	54	47	51	350	500	Fine
8-Apr-24	13:33	52	47	45	48			Fine
13-Apr-24	08:25	51	49	51	50			Fine
19-Apr-24	14:28	49	52	57	53			Fine
25-Apr-24	07:37	52	49	52	51			Fine
30-Apr-24	9:30	52	54	49	52			Fine

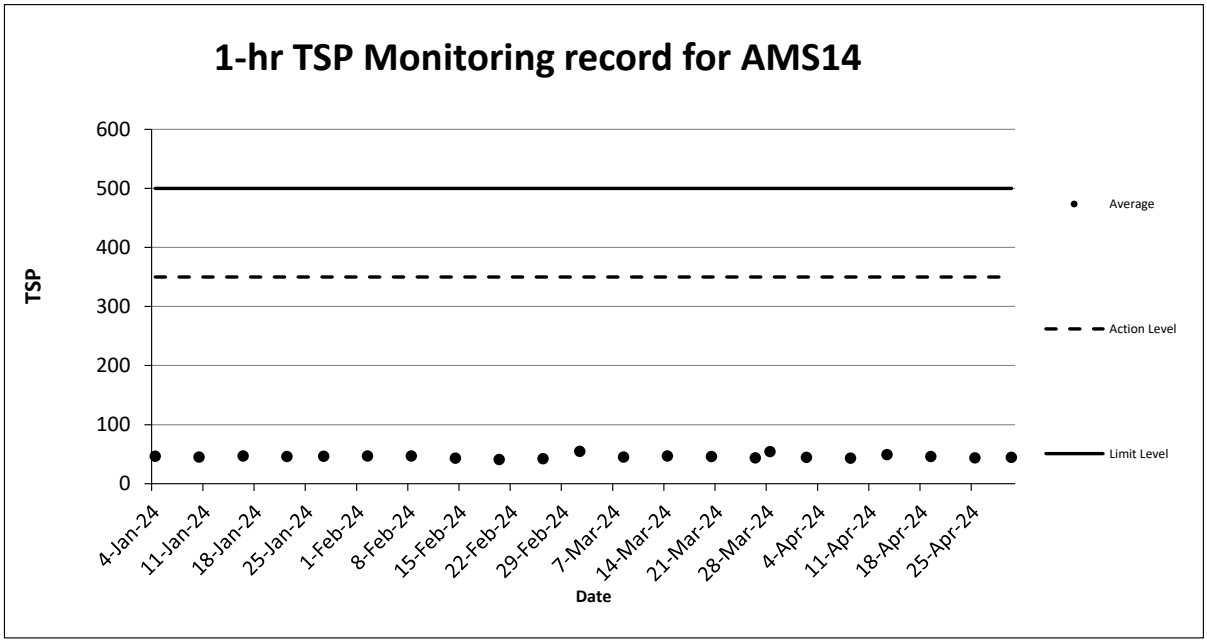
Average	51
Max	57
Min	45

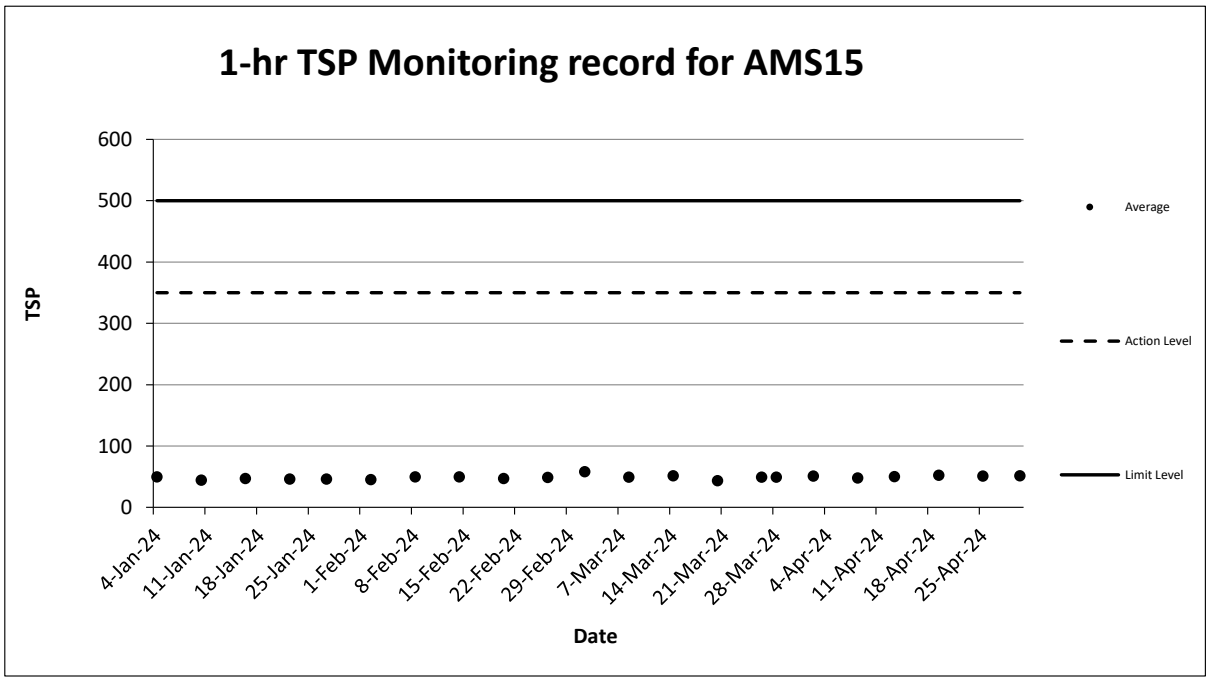
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

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


1-hr TSP Monitoring record for AMS5
TSP
600
500
400
300
200
100
0
4-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
1-Feb-24
8-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
7-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
4-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS7A
TSP
600
500
400
300
200
100
0
4-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
1-Feb-24
8-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
7-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
4-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS14
TSP
600
500
400
300
200
100
0
4-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
1-Feb-24
8-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
7-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
4-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date
Average
Action Level
Limit Level


1-hr TSP Monitoring record for AMS15
TSP
600
500
400
300
200
100
0
4-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
1-Feb-24
8-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
7-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
4-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date
Average
Action Level
Limit Level

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

AMS5 - Tin Liu

Date and Time	TSP Concentration (μg/m³)
2/4/2024 8:11	39
2/4/2024 9:11	46
2/4/2024 10:11	35
2/4/2024 11:11	48
2/4/2024 12:11	44
2/4/2024 13:11	48
2/4/2024 14:11	35
2/4/2024 15:11	48
2/4/2024 16:11	33
2/4/2024 17:11	41
2/4/2024 18:11	41
2/4/2024 19:11	35
2/4/2024 20:11	33
2/4/2024 21:11	39
2/4/2024 22:11	48
2/4/2024 23:11	41
3/4/2024 0:11	39
3/4/2024 1:11	48
3/4/2024 2:11	37
3/4/2024 3:11	33
3/4/2024 4:11	35
3/4/2024 5:11	37
3/4/2024 6:11	35
3/4/2024 7:11	39
Average	40
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
8/4/2024 8:16	46
8/4/2024 9:16	41
8/4/2024 10:16	46
8/4/2024 11:16	39
8/4/2024 12:16	35
8/4/2024 13:16	46
8/4/2024 14:16	46
8/4/2024 15:16	48
8/4/2024 16:16	44
8/4/2024 17:16	33
8/4/2024 18:16	35
8/4/2024 19:16	44
8/4/2024 20:16	44
8/4/2024 21:16	39
8/4/2024 22:16	39
8/4/2024 23:16	39
9/4/2024 0:16	44
9/4/2024 1:16	37
9/4/2024 2:16	37
9/4/2024 3:16	37
9/4/2024 4:16	48
9/4/2024 5:16	37
9/4/2024 6:16	33
9/4/2024 7:16	46
Average	41
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
13/4/2024 8:07	48
13/4/2024 9:07	43
13/4/2024 10:07	45
13/4/2024 11:07	42
13/4/2024 12:07	43
13/4/2024 13:07	47
13/4/2024 14:07	49
13/4/2024 15:07	45
13/4/2024 16:07	43
13/4/2024 17:07	41
13/4/2024 18:07	41
13/4/2024 19:07	37
13/4/2024 20:07	35
13/4/2024 21:07	39
13/4/2024 22:07	37
13/4/2024 23:07	39
14/4/2024 0:07	40
14/4/2024 1:07	39
14/4/2024 2:07	42
14/4/2024 3:07	39
14/4/2024 4:07	41
14/4/2024 5:07	36
14/4/2024 6:07	39
14/4/2024 7:07	41
Average	41
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
19/4/2024 8:08	37
19/4/2024 9:08	44
19/4/2024 10:08	48
19/4/2024 11:08	37
19/4/2024 12:08	46
19/4/2024 13:08	48
19/4/2024 14:08	41
19/4/2024 15:08	39
19/4/2024 16:08	41
19/4/2024 17:08	33
19/4/2024 18:08	39
19/4/2024 19:08	37
19/4/2024 20:08	37
19/4/2024 21:08	35
19/4/2024 22:08	33
19/4/2024 23:08	33
20/4/2024 0:08	37
20/4/2024 1:08	35
20/4/2024 2:08	39
20/4/2024 3:08	33
20/4/2024 4:08	35
20/4/2024 5:08	37
20/4/2024 6:08	41
20/4/2024 7:08	44
Average	39
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
25/4/2024 8:12	35
25/4/2024 9:12	33
25/4/2024 10:12	39
25/4/2024 11:12	46
25/4/2024 12:12	46
25/4/2024 13:12	48
25/4/2024 14:12	50
25/4/2024 15:12	41
25/4/2024 16:12	37
25/4/2024 17:12	39
25/4/2024 18:12	37
25/4/2024 19:12	41
25/4/2024 20:12	41
25/4/2024 21:12	35
25/4/2024 22:12	41
25/4/2024 23:12	46
26/4/2024 0:12	41
26/4/2024 1:12	35
26/4/2024 2:12	37
26/4/2024 3:12	39
26/4/2024 4:12	37
26/4/2024 5:12	41
26/4/2024 6:12	35
26/4/2024 7:12	37
Average	40
Action Level	156
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
30/4/2024 7:54	39
30/4/2024 8:54	39
30/4/2024 9:54	41
30/4/2024 10:54	44
30/4/2024 11:54	37
30/4/2024 12:54	39
30/4/2024 13:54	41
30/4/2024 14:54	41
30/4/2024 15:54	37
30/4/2024 16:54	35
30/4/2024 17:54	39
30/4/2024 18:54	41
30/4/2024 19:54	39
30/4/2024 20:54	44
30/4/2024 21:54	39
30/4/2024 22:54	37
30/4/2024 23:54	37
1/5/2024 0:54	39
1/5/2024 1:54	33
1/5/2024 2:54	35
1/5/2024 3:54	37
1/5/2024 4:54	39
1/5/2024 5:54	39
1/5/2024 6:54	41
Average	39
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 (μg/m³)
2/4/2024 8:01	37
2/4/2024 9:01	47
2/4/2024 10:01	49
2/4/2024 11:01	47
2/4/2024 12:01	51
2/4/2024 13:01	51
2/4/2024 14:01	53
2/4/2024 15:01	42
2/4/2024 16:01	44
2/4/2024 17:01	47
2/4/2024 18:01	44
2/4/2024 19:01	40
2/4/2024 20:01	37
2/4/2024 21:01	40
2/4/2024 22:01	40
2/4/2024 23:01	42
3/4/2024 0:01	49
3/4/2024 1:01	49
3/4/2024 2:01	40
3/4/2024 3:01	47
3/4/2024 4:01	49
3/4/2024 5:01	49
3/4/2024 6:01	53
3/4/2024 7:01	47
Average	45
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
8/4/2024 7:55	44
8/4/2024 8:55	47
8/4/2024 9:55	44
8/4/2024 10:55	42
8/4/2024 11:55	53
8/4/2024 12:55	44
8/4/2024 13:55	51
8/4/2024 14:55	47
8/4/2024 15:55	44
8/4/2024 16:55	53
8/4/2024 17:55	42
8/4/2024 18:55	51
8/4/2024 19:55	49
8/4/2024 20:55	37
8/4/2024 21:55	49
8/4/2024 22:55	42
8/4/2024 23:55	40
9/4/2024 0:55	42
9/4/2024 1:55	42
9/4/2024 2:55	44
9/4/2024 3:55	40
9/4/2024 4:55	44
9/4/2024 5:55	49
9/4/2024 6:55	44
Average	45
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
13/4/2024 8:03	53
13/4/2024 9:03	46
13/4/2024 10:03	41
13/4/2024 11:03	51
13/4/2024 12:03	48
13/4/2024 13:03	51
13/4/2024 14:03	50
13/4/2024 15:03	54
13/4/2024 16:03	46
13/4/2024 17:03	44
13/4/2024 18:03	48
13/4/2024 19:03	39
13/4/2024 20:03	39
13/4/2024 21:03	35
13/4/2024 22:03	33
13/4/2024 23:03	41
14/4/2024 0:03	41
14/4/2024 1:03	45
14/4/2024 2:03	48
14/4/2024 3:03	43
14/4/2024 4:03	48
14/4/2024 5:03	40
14/4/2024 6:03	41
14/4/2024 7:03	41
Average	44
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
19/4/2024 8:03	37
19/4/2024 9:03	53
19/4/2024 10:03	51
19/4/2024 11:03	44
19/4/2024 12:03	44
19/4/2024 13:03	47
19/4/2024 14:03	42
19/4/2024 15:03	47
19/4/2024 16:03	44
19/4/2024 17:03	51
19/4/2024 18:03	37
19/4/2024 19:03	49
19/4/2024 20:03	44
19/4/2024 21:03	40
19/4/2024 22:03	44
19/4/2024 23:03	49
20/4/2024 0:03	49
20/4/2024 1:03	49
20/4/2024 2:03	40
20/4/2024 3:03	47
20/4/2024 4:03	40
20/4/2024 5:03	42
20/4/2024 6:03	40
20/4/2024 7:03	37
Average	44
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
25/4/2024 7:49	40
25/4/2024 8:49	42
25/4/2024 9:49	44
25/4/2024 10:49	49
25/4/2024 11:49	47
25/4/2024 12:49	49
25/4/2024 13:49	40
25/4/2024 14:49	49
25/4/2024 15:49	53
25/4/2024 16:49	47
25/4/2024 17:49	51
25/4/2024 18:49	53
25/4/2024 19:49	37
25/4/2024 20:49	49
25/4/2024 21:49	47
25/4/2024 22:49	42
25/4/2024 23:49	53
26/4/2024 0:49	37
26/4/2024 1:49	42
26/4/2024 2:49	53
26/4/2024 3:49	40
26/4/2024 4:49	42
26/4/2024 5:49	49
26/4/2024 6:49	47
Average	46
Action Level	171
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
30/4/2024 8:04	47
30/4/2024 9:04	51
30/4/2024 10:04	47
30/4/2024 11:04	42
30/4/2024 12:04	44
30/4/2024 13:04	44
30/4/2024 14:04	42
30/4/2024 15:04	49
30/4/2024 16:04	47
30/4/2024 17:04	44
30/4/2024 18:04	47
30/4/2024 19:04	47
30/4/2024 20:04	44
30/4/2024 21:04	42
30/4/2024 22:04	42
30/4/2024 23:04	44
1/5/2024 0:04	44
1/5/2024 1:04	47
1/5/2024 2:04	44
1/5/2024 3:04	44
1/5/2024 4:04	40
1/5/2024 5:04	42
1/5/2024 6:04	40
1/5/2024 7:04	44
Average	44
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)

AMS14 - Ha Wo Che

Date and Time	TSP Concentration (μg/m³)
2/4/2024 7:47	35
2/4/2024 8:47	35
2/4/2024 9:47	33
2/4/2024 10:47	37
2/4/2024 11:47	45
2/4/2024 12:47	47
2/4/2024 13:47	41
2/4/2024 14:47	45
2/4/2024 15:47	37
2/4/2024 16:47	35
2/4/2024 17:47	35
2/4/2024 18:47	41
2/4/2024 19:47	45
2/4/2024 20:47	35
2/4/2024 21:47	41
2/4/2024 22:47	43
2/4/2024 23:47	43
3/4/2024 0:47	35
3/4/2024 1:47	37
3/4/2024 2:47	45
3/4/2024 3:47	37
3/4/2024 4:47	33
3/4/2024 5:47	39
3/4/2024 6:47	33
Average	39
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
8/4/2024 7:51	43
8/4/2024 8:51	43
8/4/2024 9:51	47
8/4/2024 10:51	37
8/4/2024 11:51	45
8/4/2024 12:51	43
8/4/2024 13:51	41
8/4/2024 14:51	47
8/4/2024 15:51	39
8/4/2024 16:51	41
8/4/2024 17:51	39
8/4/2024 18:51	41
8/4/2024 19:51	45
8/4/2024 20:51	37
8/4/2024 21:51	43
8/4/2024 22:51	41
8/4/2024 23:51	45
9/4/2024 0:51	39
9/4/2024 1:51	35
9/4/2024 2:51	39
9/4/2024 3:51	39
9/4/2024 4:51	43
9/4/2024 5:51	45
9/4/2024 6:51	33
Average	41
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
13/4/2024 7:42	49
13/4/2024 8:42	50
13/4/2024 9:42	49
13/4/2024 10:42	50
13/4/2024 11:42	40
13/4/2024 12:42	42
13/4/2024 13:42	46
13/4/2024 14:42	43
13/4/2024 15:42	42
13/4/2024 16:42	52
13/4/2024 17:42	51
13/4/2024 18:42	45
13/4/2024 19:42	45
13/4/2024 20:42	47
13/4/2024 21:42	43
13/4/2024 22:42	39
13/4/2024 23:42	39
14/4/2024 0:42	43
14/4/2024 1:42	41
14/4/2024 2:42	47
14/4/2024 3:42	43
14/4/2024 4:42	45
14/4/2024 5:42	43
14/4/2024 6:42	47
Average	45
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
19/4/2024 7:43	37
19/4/2024 8:43	39
19/4/2024 9:43	37
19/4/2024 10:43	41
19/4/2024 11:43	37
19/4/2024 12:43	35
19/4/2024 13:43	47
19/4/2024 14:43	49
19/4/2024 15:43	41
19/4/2024 16:43	43
19/4/2024 17:43	37
19/4/2024 18:43	37
19/4/2024 19:43	39
19/4/2024 20:43	45
19/4/2024 21:43	41
19/4/2024 22:43	37
19/4/2024 23:43	35
20/4/2024 0:43	41
20/4/2024 1:43	41
20/4/2024 2:43	41
20/4/2024 3:43	39
20/4/2024 4:43	39
20/4/2024 5:43	33
20/4/2024 6:43	35
Average	40
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
25/4/2024 7:45	41
25/4/2024 8:45	39
25/4/2024 9:45	47
25/4/2024 10:45	43
25/4/2024 11:45	37
25/4/2024 12:45	33
25/4/2024 13:45	43
25/4/2024 14:45	45
25/4/2024 15:45	43
25/4/2024 16:45	41
25/4/2024 17:45	33
25/4/2024 18:45	37
25/4/2024 19:45	39
25/4/2024 20:45	45
25/4/2024 21:45	41
25/4/2024 22:45	37
25/4/2024 23:45	39
26/4/2024 0:45	35
26/4/2024 1:45	43
26/4/2024 2:45	41
26/4/2024 3:45	33
26/4/2024 4:45	45
26/4/2024 5:45	35
26/4/2024 6:45	43
Average	40
Action Level	174
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
30/4/2024 7:41	45
30/4/2024 8:41	47
30/4/2024 9:41	41
30/4/2024 10:41	41
30/4/2024 11:41	41
30/4/2024 12:41	45
30/4/2024 13:41	45
30/4/2024 14:41	41
30/4/2024 15:41	39
30/4/2024 16:41	39
30/4/2024 17:41	43
30/4/2024 18:41	43
30/4/2024 19:41	43
30/4/2024 20:41	41
30/4/2024 21:41	37
30/4/2024 22:41	39
30/4/2024 23:41	35
1/5/2024 0:41	35
1/5/2024 1:41	35
1/5/2024 2:41	31
1/5/2024 3:41	37
1/5/2024 4:41	37
1/5/2024 5:41	37
1/5/2024 6:41	39
Average	40
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 15 - Ha Wo Che

Date and Time	TSP Concentration (μg/m³)
2/4/2024 7:30	52
2/4/2024 8:30	47
2/4/2024 9:30	49
2/4/2024 10:30	42
2/4/2024 11:30	52
2/4/2024 12:30	47
2/4/2024 13:30	49
2/4/2024 14:30	47
2/4/2024 15:30	52
2/4/2024 16:30	54
2/4/2024 17:30	47
2/4/2024 18:30	45
2/4/2024 19:30	47
2/4/2024 20:30	45
2/4/2024 21:30	42
2/4/2024 22:30	40
2/4/2024 23:30	42
3/4/2024 0:30	47
3/4/2024 1:30	49
3/4/2024 2:30	47
3/4/2024 3:30	40
3/4/2024 4:30	42
3/4/2024 5:30	38
3/4/2024 6:30	45
Average	46
Action Level	172
Limit Level	260

Date and Time	TSP Concentration (μg/m³)
8/4/2024 7:33	42
8/4/2024 8:33	47
8/4/2024 9:33	45
8/4/2024 10:33	47
8/4/2024 11:33	47
8/4/2024 12:33	45
8/4/2024 13:33	52
8/4/2024 14:33	47
8/4/2024 15:33	45
8/4/2024 16:33	38
8/4/2024 17:33	40
8/4/2024 18:33	45
8/4/2024 19:33	40
8/4/2024 20:33	49
8/4/2024 21:33	40
8/4/2024 22:33	42
8/4/2024 23:33	40
9/4/2024 0:33	40
9/4/2024 1:33	42
9/4/2024 2:33	38
9/4/2024 3:33	45
9/4/2024 4:33	40
9/4/2024 5:33	49
9/4/2024 6:33	47
Average	44
Action Level	172
Limit Level	260

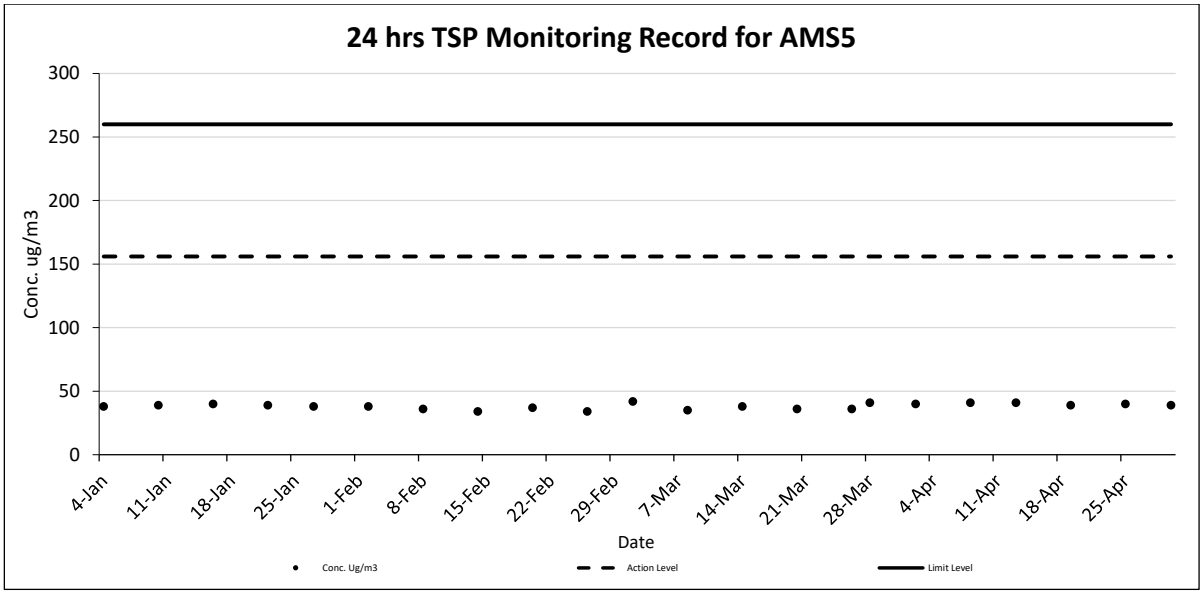
Date and Time	TSP Concentration (μg/m³)
13/4/2024 7:25	47
13/4/2024 8:25	51
13/4/2024 9:25	49
13/4/2024 10:25	51
13/4/2024 11:25	48
13/4/2024 12:25	46
13/4/2024 13:25	46
13/4/2024 14:25	42
13/4/2024 15:25	44
13/4/2024 16:25	44
13/4/2024 17:25	42
13/4/2024 18:25	40
13/4/2024 19:25	42
13/4/2024 20:25	47
13/4/2024 21:25	44
13/4/2024 22:25	42
13/4/2024 23:25	45
14/4/2024 0:25	47
14/4/2024 1:25	40
14/4/2024 2:25	42
14/4/2024 3:25	44
14/4/2024 4:25	45
14/4/2024 5:25	42
14/4/2024 6:25	40
Average	45
Action Level	172
Limit Level	260

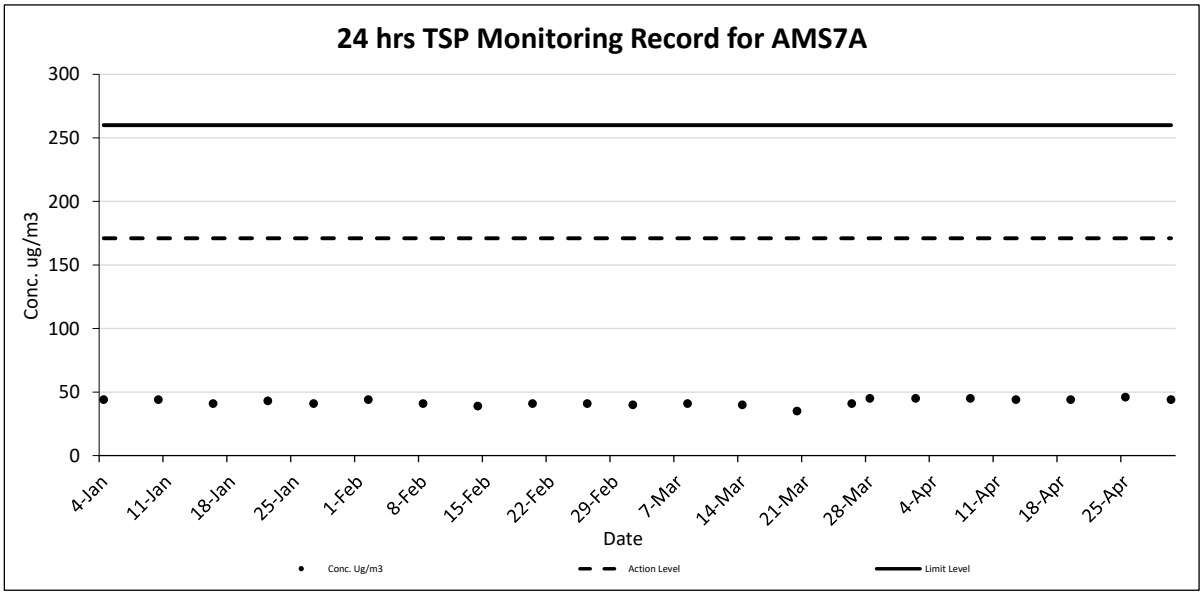
Date and Time	TSP Concentration (μg/m³)
19/4/2024 7:28	49
19/4/2024 8:28	54
19/4/2024 9:28	52
19/4/2024 10:28	54
19/4/2024 11:28	47
19/4/2024 12:28	45
19/4/2024 13:28	45
19/4/2024 14:28	49
19/4/2024 15:28	52
19/4/2024 16:28	57
19/4/2024 17:28	47
19/4/2024 18:28	49
19/4/2024 19:28	42
19/4/2024 20:28	52
19/4/2024 21:28	49
19/4/2024 22:28	42
19/4/2024 23:28	54
20/4/2024 0:28	49
20/4/2024 1:28	45
20/4/2024 2:28	42
20/4/2024 3:28	38
20/4/2024 4:28	45
20/4/2024 5:28	47
20/4/2024 6:28	42
Average	48
Action Level	172
Limit Level	260

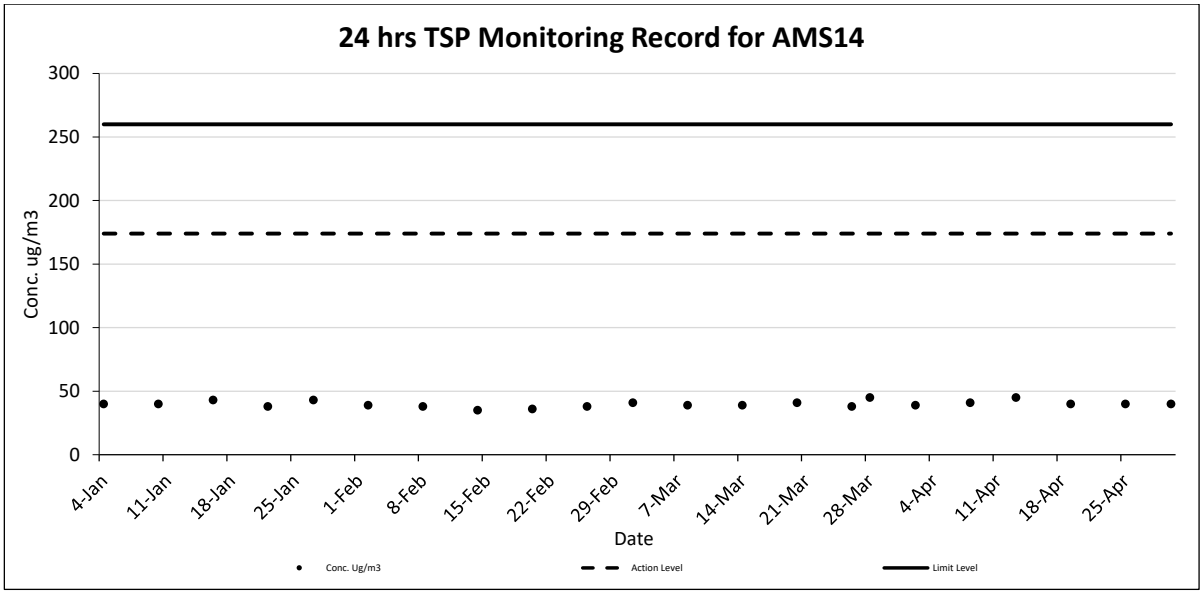
Date and Time	TSP Concentration (μg/m³)
25/4/2024 7:37	52
25/4/2024 8:37	49
25/4/2024 9:37	52
25/4/2024 10:37	47
25/4/2024 11:37	40
25/4/2024 12:37	47
25/4/2024 13:37	47
25/4/2024 14:37	42
25/4/2024 15:37	54
25/4/2024 16:37	54
25/4/2024 17:37	47
25/4/2024 18:37	45
25/4/2024 19:37	42
25/4/2024 20:37	38
25/4/2024 21:37	47
25/4/2024 22:37	45
25/4/2024 23:37	47
26/4/2024 0:37	49
26/4/2024 1:37	40
26/4/2024 2:37	42
26/4/2024 3:37	42
26/4/2024 4:37	45
26/4/2024 5:37	40
26/4/2024 6:37	47
Average	46
Action Level	172
Limit Level	260

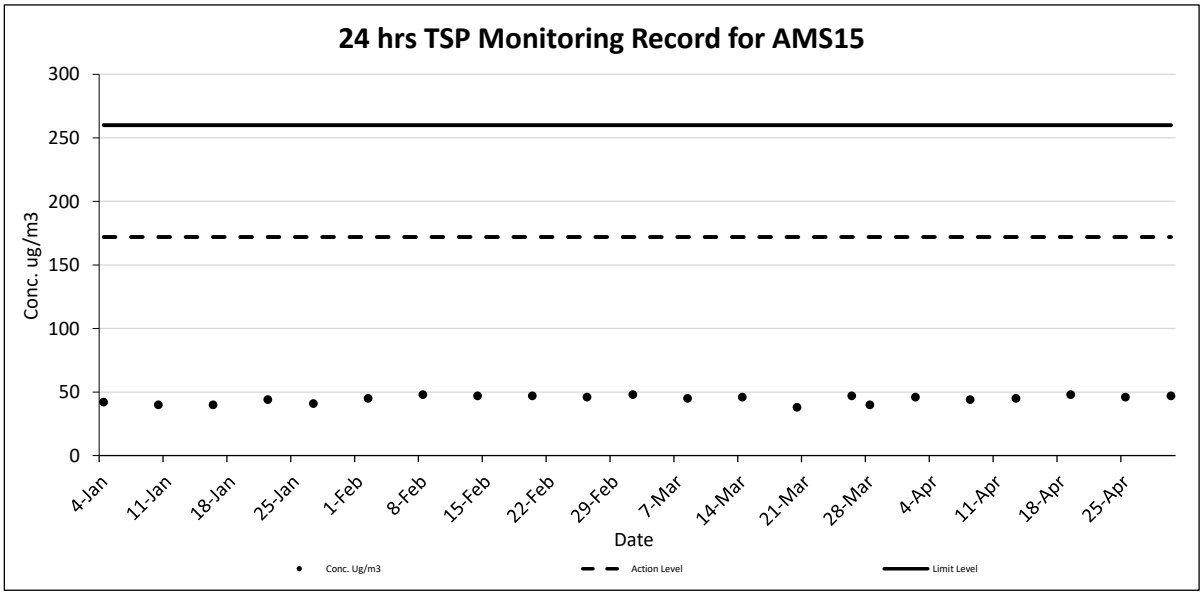
Date and Time	TSP Concentration (μg/m³)
30/4/2024 7:30	47
30/4/2024 8:30	49
30/4/2024 9:30	52
30/4/2024 10:30	54
30/4/2024 11:30	49
30/4/2024 12:30	45
30/4/2024 13:30	52
30/4/2024 14:30	45
30/4/2024 15:30	47
30/4/2024 16:30	49
30/4/2024 17:30	42
30/4/2024 18:30	45
30/4/2024 19:30	42
30/4/2024 20:30	42
30/4/2024 21:30	45
30/4/2024 22:30	42
30/4/2024 23:30	42
1/5/2024 0:30	47
1/5/2024 1:30	47
1/5/2024 2:30	49
1/5/2024 3:30	45
1/5/2024 4:30	47
1/5/2024 5:30	45
1/5/2024 6:30	45
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 hrs TSP Monitoring Record for AMS5
300
250
200
150
100
50
0
Conc. ug/m3
4-Jan
11-Jan
18-Jan
25-Jan
1-Feb
8-Feb
15-Feb
22-Feb
29-Feb
7-Mar
14-Mar
21-Mar
28-Mar
4-Apr
11-Apr
18-Apr
25-Apr
Date
Conc. Ug/m3
Action Level
Limit Level


24 hrs TSP Monitoring Record for AMS7A
300
250
200
150
100
50
0
Conc. ug/m3
4-Jan
11-Jan
18-Jan
25-Jan
1-Feb
8-Feb
15-Feb
22-Feb
29-Feb
7-Mar
14-Mar
21-Mar
28-Mar
4-Apr
11-Apr
18-Apr
25-Apr
Date
Conc. Ug/m3
Action Level
Limit Level


24 hrs TSP Monitoring Record for AMS14
300
250
200
150
100
50
0
Conc. ug/m3
4-Jan
11-Jan
18-Jan
25-Jan
1-Feb
8-Feb
15-Feb
22-Feb
29-Feb
7-Mar
14-Mar
21-Mar
28-Mar
4-Apr
11-Apr
18-Apr
25-Apr
Date
Conc. Ug/m3
Action Level
Limit Level


24 hrs TSP Monitoring Record for AMS15
300
250
200
150
100
50
0
Conc. ug/m3
4-Jan
11-Jan
18-Jan
25-Jan
1-Feb
8-Feb
15-Feb
22-Feb
29-Feb
7-Mar
14-Mar
21-Mar
28-Mar
4-Apr
11-Apr
18-Apr
25-Apr
Date
Conc. Ug/m3
Action Level
Limit Level

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix G

Noise Monitoring Data

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						
2-Apr-24	16:38	63.9	62.0	66.5	75	63.9	Fine	0.2
8-Apr-24	16:37	64.5	62.5	67.5	75	64.5	Fine	0.6
19-Apr-24	16:40	66.9	64.0	69.5	75	66.9	Fine	0.4
25-Apr-24	16:42	66.1	63.0	68.0	75	66.1	Fine	0.5
30-Apr-24	8:30	63.9	60.5	65.5	75	63.9	Fine	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						
2-Apr-24	8:30	54.5	51.5	56.0	75	54.5	Fine	0.4
8-Apr-24	8:30	52.9	50.0	55.0	75	52.9	Fine	1.0
19-Apr-24	8:30	53.1	50.5	55.0	75	53.1	Fine	0.9
25-Apr-24	8:30	52.4	49.5	53.5	75	52.4	Fine	0.7
30-Apr-24	9:55	50.2	49.0	51.5	75	50.2	Fine	0.2

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						
2-Apr-24	16:02	62.4	59.5	65.0	75	62.4	Fine	0.7
8-Apr-24	16:04	63.4	61.0	66.0	75	63.4	Fine	0.6
19-Apr-24	16:02	65.2	62.0	67.5	75	65.2	Fine	0.9
25-Apr-24	16:06	63.0	60.5	66.0	75	63.0	Fine	1.0
30-Apr-24	9:13	64.8	61.0	67.0	75	64.8	Fine	0.3

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						
2-Apr-24	9:12	66.0	63.0	68.5	75	66.0	Fine	0.8
8-Apr-24	9:09	64.7	62.5	67.5	75	64.7	Fine	0.8
19-Apr-24	9:07	63.0	60.5	65.5	75	63.0	Fine	0.8
25-Apr-24	9:10	65.2	62.5	68.0	75	65.2	Fine	0.2
30-Apr-24	10:36	64.2	62.0	66.0	75	64.2	Fine	0.4

NMS 5A Wai Wah Centre (Site Boundary)

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						
2-Apr-24	15:22	68.8	65.0	71.5	75	68.8	Fine	1.1
8-Apr-24	15:26	70.8	67.5	73.5	75	70.8	Fine	0.9
19-Apr-24	15:24	67.6	64.0	69.5	75	67.6	Fine	0.9
25-Apr-24	15:25	69.5	66.5	71.5	75	69.5	Fine	0.2
30-Apr-24	16:35	69.6	65.0	71.5	75	69.6	Fine	0.6

NMS 6A Wai Wah Centre (Site Boundary)

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						
2-Apr-24	14:47	72.4	70.0	74.5	75	72.4	Fine	0.3
8-Apr-24	14:44	70.3	68.0	73.0	75	70.3	Fine	0.4
19-Apr-24	14:48	70.5	67.5	73.0	75	70.5	Fine	0.9
25-Apr-24	14:46	68.4	66.0	70.5	75	68.4	Fine	0.7
30-Apr-24	16:00	70.9	67.0	73.5	75	70.9	Fine	0.3

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	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
2-Apr-24	9:52	67.7	65.0	70.5	75	67.7	Fine	1.1
8-Apr-24	9:51	67.8	66.0	70.0	75	67.8	Fine	0.4
19-Apr-24	9:51	65.8	63.0	68.5	75	65.8	Fine	0.9
25-Apr-24	9:50	66.8	64.5	69.5	75	66.8	Fine	0.2
30-Apr-24	11:12	63.8	62.0	65.5	75	63.8	Fine	0.5

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						
3-Apr-24	17:28	65.7	63.0	68.0	75	65.7	Fine	0.3
9-Apr-24	17:27	64.5	62.0	67.0	75	64.5	Fine	0.2
20-Apr-24	17:32	64.5	62.0	66.5	75	64.5	Fine	0.4
26-Apr-24	17:30	64.1	61.5	66.0	75	64.1	Fine	1.1
29-Apr-24	17:30	67.2	60.0	70.5	75	67.2	Fine	0.2

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						
3-Apr-24	8:30	65.4	63.0	68.0	75	65.4	Fine	0.2
9-Apr-24	8:30	66.5	64.5	68.5	75	66.5	Fine	0.9
20-Apr-24	8:30	67.2	64.5	69.5	75	67.2	Fine	0.2
26-Apr-24	8:30	67.1	65.0	70.0	75	67.1	Fine	0.7
29-Apr-24	8:40	67.8	61.0	70.0	75	67.8	Fine	0.2

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						
3-Apr-24	9:06	64.2	61.5	66.5	70	64.2	Fine	0.5
9-Apr-24	9:08	65.4	62.5	68.5	70	65.4	Fine	0.1
20-Apr-24	9:06	65.7	63.5	68.5	70	65.7	Fine	1.1
26-Apr-24	9:09	65.0	62.5	69.0	70	65.0	Fine	0.3
29-Apr-24	9:21	66.9	60.0	69.0	70	66.9	Fine	0.2

*Note: The school calender was provide in Appendix E.

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						
3-Apr-24	15:30	67.0	64.0	70.0	75	67.0	Fine	0.2
9-Apr-24	15:29	64.7	61.5	67.0	75	64.7	Fine	0.9
20-Apr-24	15:33	65.1	62.5	67.0	75	65.1	Fine	0.4
26-Apr-24	15:36	66.6	64.0	70.5	75	66.6	Fine	0.2
29-Apr-24	15:28	66.7	61.5	68.9	75	66.7	Fine	0.2

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						
3-Apr-24	9:43	66.8	64.0	70.0	70	66.8	Fine	0.2
9-Apr-24	9:45	64.6	61.5	67.5	70	64.6	Fine	0.1
20-Apr-24	9:45	64.9	62.0	69.0	70	64.9	Fine	0.3
26-Apr-24	9:47	64.7	62.0	67.5	70	64.7	Fine	0.1
29-Apr-24	9:58	65.7	62.0	67.0	70	65.7	Fine	0.2

*Note: The school calender was provide in Appendix E.

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	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
3-Apr-24	10:23	66.4	64.5	69.0	75	66.4	Fine	0.7
9-Apr-24	10:25	64.8	62.0	67.5	75	64.8	Fine	0.8
20-Apr-24	10:22	64.4	62.0	66.5	75	64.4	Fine	0.6
26-Apr-24	10:26	66.8	64.5	69.0	75	66.8	Fine	0.3
29-Apr-24	10:33	67.1	63.0	70.5	75	67.1	Fine	0.2

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						
3-Apr-24	14:48	62.9	60.0	65.5	75	62.9	Fine	0.8
9-Apr-24	14:42	62.3	59.5	65.0	75	62.3	Fine	0.4
20-Apr-24	14:47	62.3	60.0	64.5	75	62.3	Fine	0.8
26-Apr-24	14:49	60.2	58.0	63.0	75	60.2	Fine	0.4
29-Apr-24	14:48	61.6	55.5	62.5	75	61.6	Fine	0.2

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						
2-Apr-24	13:00	60.8	58.5	63.5	75	60.8	Fine	0.3
8-Apr-24	13:00	60.9	58.0	63.5	75	60.9	Fine	1
19-Apr-24	13:00	60.5	57.5	63.0	75	60.5	Fine	0.9
25-Apr-24	13:00	61.2	59.0	63.5	75	61.2	Fine	1.2
30-Apr-24	14:02	58.7	57.0	60.0	75	58.7	Fine	0.6

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						
2-Apr-24	13:38	63.5	61.0	66.0	75	63.5	Fine	1
8-Apr-24	13:36	60.7	58.5	63.5	75	60.7	Fine	0.2
19-Apr-24	13:40	63.3	61.0	66.5	75	63.3	Fine	1.0
25-Apr-24	13:38	62.6	60.5	64.5	75	62.6	Fine	1.1
30-Apr-24	14:38	63.1	59.5	64.0	75	63.1	Fine	0.2

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						
3-Apr-24	13:00	62.7	60.5	64.5	70	62.7	Fine	0.8
9-Apr-24	13:00	64.7	62.5	66.0	65	64.7	Fine	1.0
20-Apr-24	13:00	63.9	61.5	65.0	65	63.9	Fine	0.3
26-Apr-24	13:00	63.1	60.5	65.0	65	63.1	Fine	0.5
29-Apr-24	12:00	61.5	60.0	63.0	65	61.5	Fine	0.2

*Note: The school calender was provide in Appendix E.

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						
2-Apr-24	14:16	61.4	58.5	63.5	75	61.4	Fine	0.2
8-Apr-24	14:18	61.4	58.5	64.0	75	61.4	Fine	0.3
19-Apr-24	14:19	59.3	57.0	62.0	75	59.3	Fine	0.4
25-Apr-24	14:14	62.2	59.5	64.5	75	62.2	Fine	0.9
30-Apr-24	15:15	60.8	59.0	62.5	75	60.8	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	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
3-Apr-24	13:36	66.9	65.0	69.0	75	66.9	Fine	1
9-Apr-24	13:38	66.6	64.0	69.0	75	66.6	Fine	0.3
20-Apr-24	13:39	65.1	63.0	68.0	75	65.1	Fine	0.2
26-Apr-24	13:36	68.4	65.5	70.5	75	68.4	Fine	0.8
29-Apr-24	12:36	70.5	67.0	73.0	75	70.5	Fine	0.2

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						
3-Apr-24	14:14	61.4	59.0	63.5	75	61.4	Fine	0.8
9-Apr-24	14:13	63.7	61.5	66.0	75	63.7	Fine	0.2
20-Apr-24	14:14	61.5	59.5	64.0	75	61.5	Fine	0.3
26-Apr-24	14:17	63.1	60.5	66.0	75	63.1	Fine	1.0
29-Apr-24	13:22	63.3	58.0	65.5	75	63.3	Fine	0.2

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						
2-Apr-24	10:28	64.4	62.0	67.0	75	64.4	Fine	1.0
8-Apr-24	10:27	65.6	63.5	68.5	75	65.6	Fine	0.4
19-Apr-24	10:32	62.4	59.5	65.5	75	62.4	Fine	1.0
25-Apr-24	10:30	64.8	62.0	67.5	75	64.8	Fine	0.7
30-Apr-24	11:48	66.2	63.0	68.0	75	66.2	Fine	0.4

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						
3-Apr-24	16:48	66.1	64.0	69.0	75	66.1	Fine	0.4
9-Apr-24	16:46	67.2	65.0	70.0	75	67.2	Fine	1.0
20-Apr-24	16:47	65.3	62.5	67.5	75	65.3	Fine	1.1
26-Apr-24	16:48	68.5	66.0	70.5	75	68.5	Fine	0.7
29-Apr-24	16:52	70.0	67.5	73.5	75	70.0	Fine	0.2

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						
3-Apr-24	16:12	65.0	61.5	69.0	75	65.0	Fine	1.1
9-Apr-24	16:08	67.6	63.5	69.5	75	67.6	Fine	0.4
20-Apr-24	16:11	65.1	61.0	68.0	75	65.1	Fine	0.5
26-Apr-24	16:10	65.0	61.5	67.5	75	65.0	Fine	0.2
29-Apr-24	16:17	65.6	60.0	67.5	75	65.6	Fine	0.2

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						
3-Apr-24	11:02	69.9	67.0	73.0	75	69.9	Fine	1.1
9-Apr-24	11:04	70.3	67.5	72.5	75	70.3	Fine	0.2
20-Apr-24	11:01	69.0	66.5	71.0	75	69.0	Fine	0.2
26-Apr-24	11:06	67.4	64.5	70.5	75	67.4	Fine	0.3
29-Apr-24	11:18	68.8	64.0	71.0	75	68.8	Fine	0.2

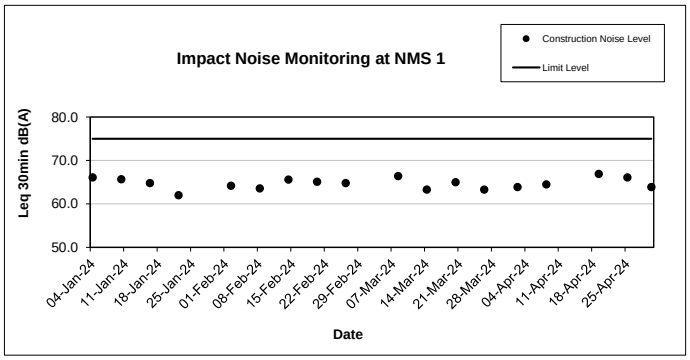
NMS 27 Jockey Club Ti-I College

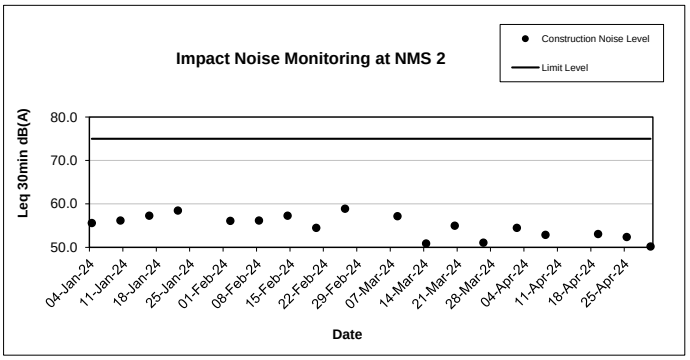
Date	Start Time	Measured Noise Level			Limit Level	Construction Noise Level	Weather	Wind Speed (m/s)
		L_{eq}	L_{90}	L_{10}				
		Unit: dB(A) 30 Mins						
2-Apr-24	11:04	62.6	60.0	65.0	70	62.6	Fine	1.2
8-Apr-24	11:06	63.1	61.0	65.5	70	63.1	Fine	0.5
19-Apr-24	11:09	61.8	60.0	64.0	70	61.8	Fine	0.5
25-Apr-24	11:08	64.2	62.0	67.0	70	64.2	Fine	0.5
30-Apr-24	13:00	64.8	61.5	66.5	70	64.8	Fine	0.2

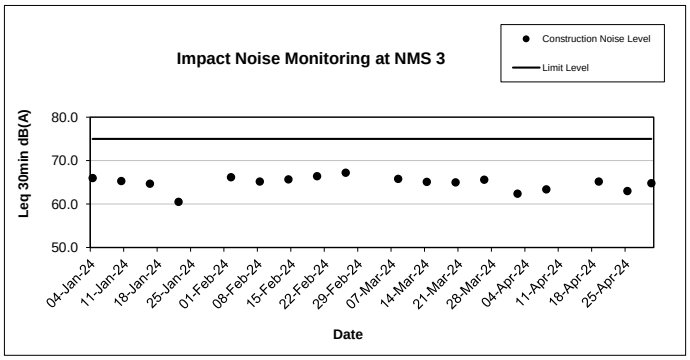
*Note: The school calender was provide in Appendix E.

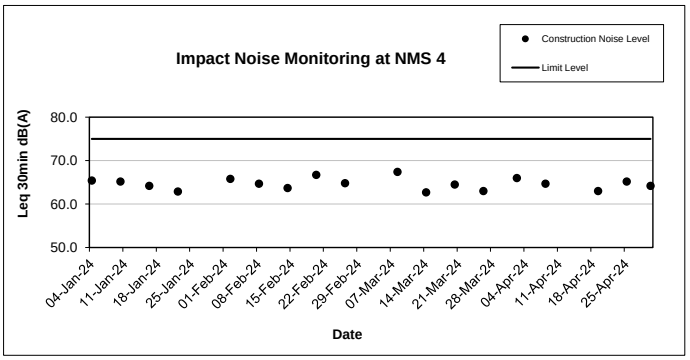
If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

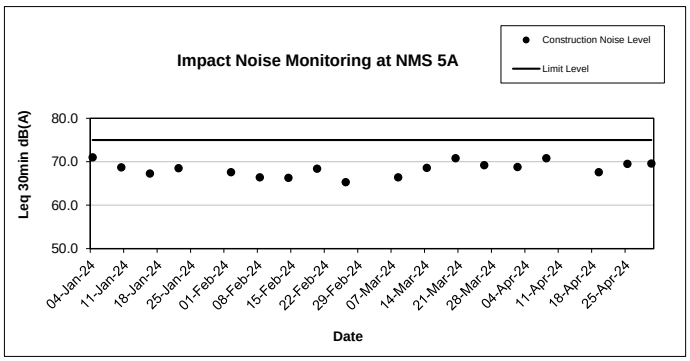
$$10 \times \log\left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}}\right) - \left(10^{\frac{\text{Baseline noise level}}{10}}\right)\right]$$

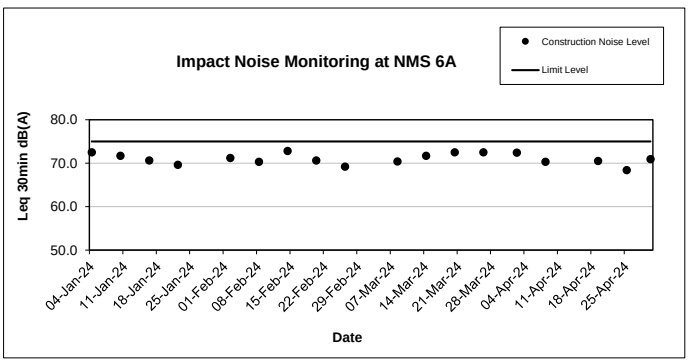

Impact Noise Monitoring at NMS 1
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

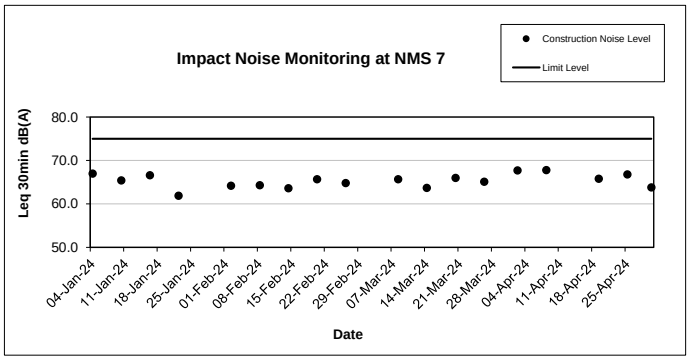

Impact Noise Monitoring at NMS 2
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

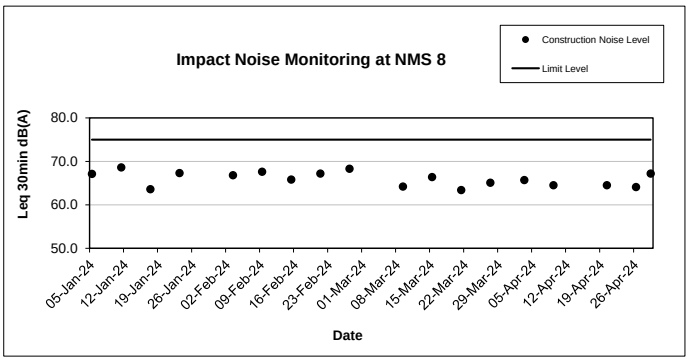

Impact Noise Monitoring at NMS 3
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

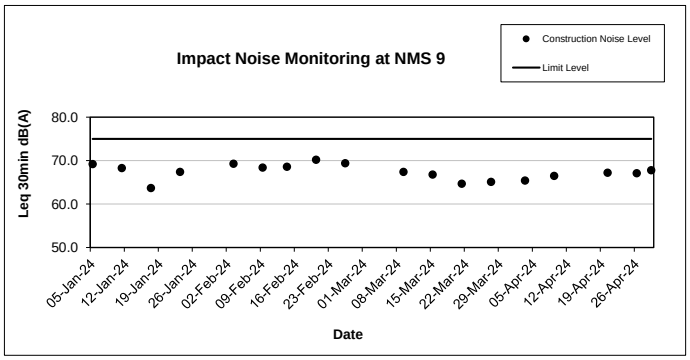

Impact Noise Monitoring at NMS 4
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

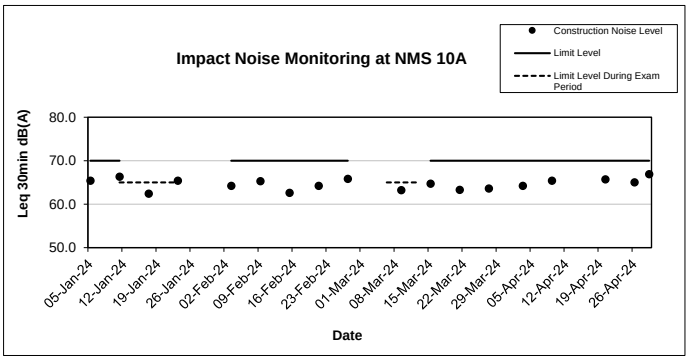

Impact Noise Monitoring at NMS 5A
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

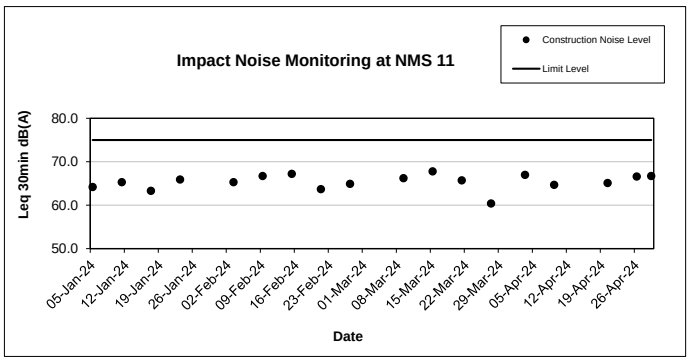

Impact Noise Monitoring at NMS 6A
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

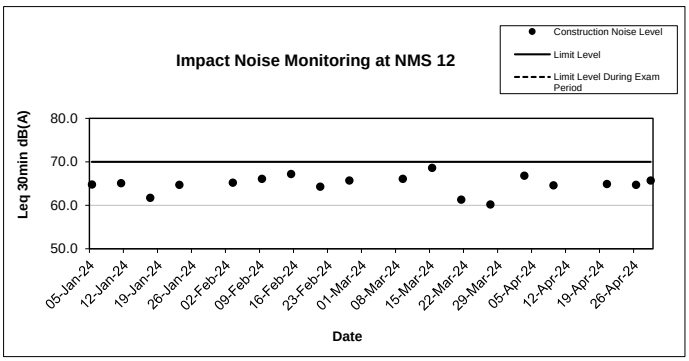

Impact Noise Monitoring at NMS 7
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

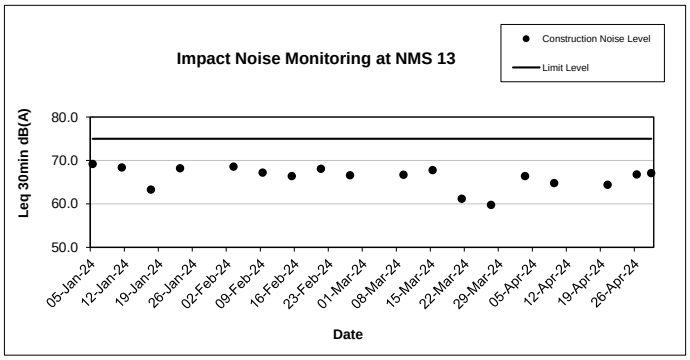

Impact Noise Monitoring at NMS 8
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date

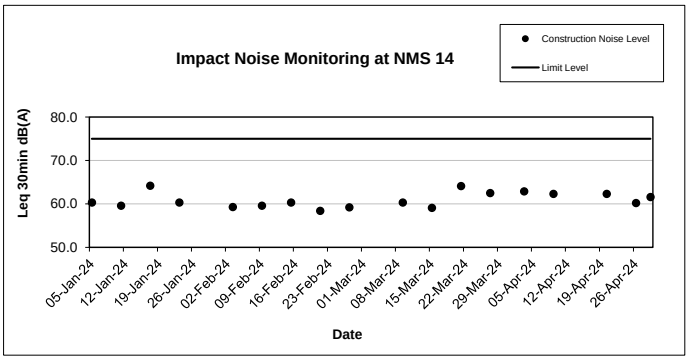

Impact Noise Monitoring at NMS 9
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date

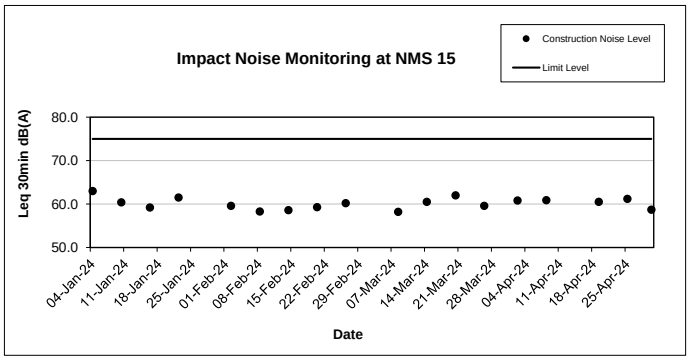

Impact Noise Monitoring at NMS 10A
Construction Noise Level
Limit Level
Limit Level During Exam Period
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date

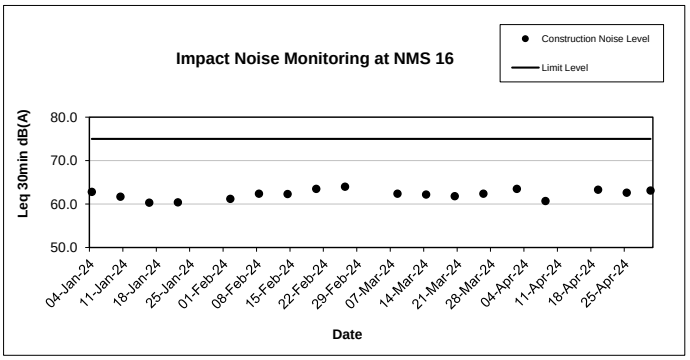

Impact Noise Monitoring at NMS 11
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date

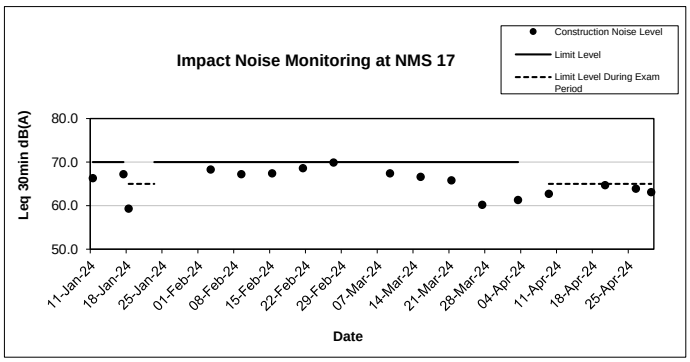

Impact Noise Monitoring at NMS 12
Construction Noise Level
Limit Level
Limit Level During Exam Period
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date

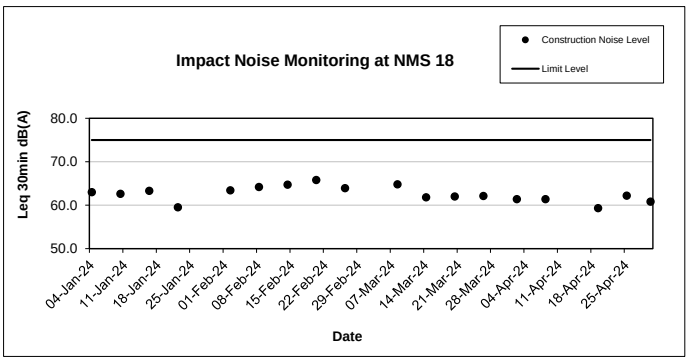

Impact Noise Monitoring at NMS 13
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date

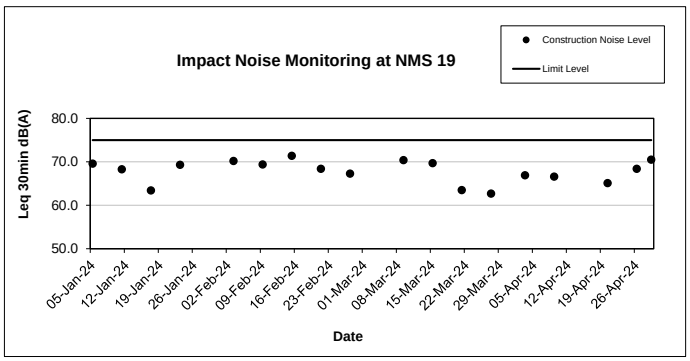

Impact Noise Monitoring at NMS 14
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date

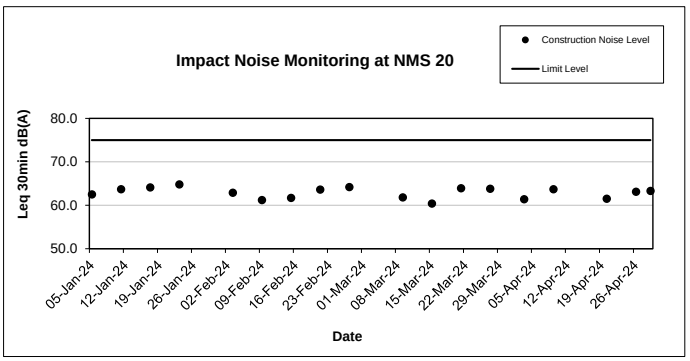

Impact Noise Monitoring at NMS 15
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

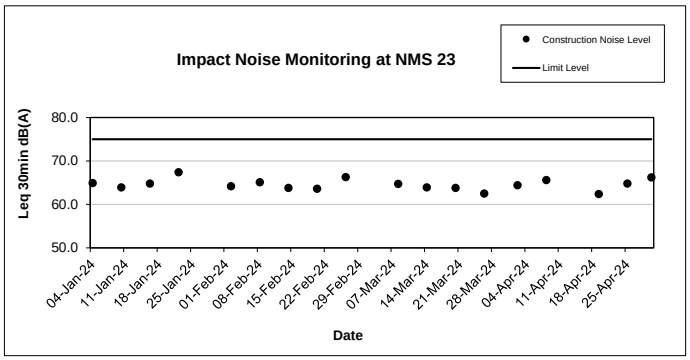

Impact Noise Monitoring at NMS 16
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

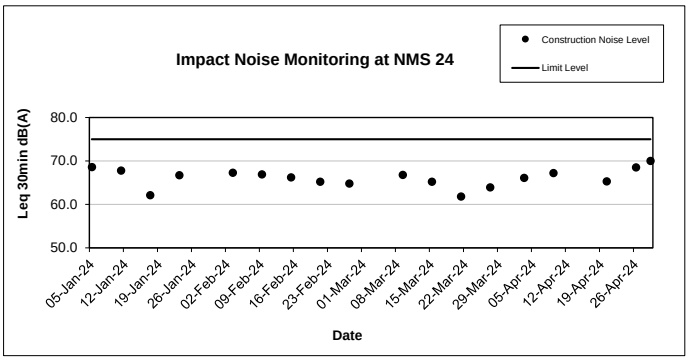

Impact Noise Monitoring at NMS 17
Construction Noise Level
Limit Level
Limit Level During Exam Period
Leq 30min dB(A)
80.0
70.0
60.0
50.0
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

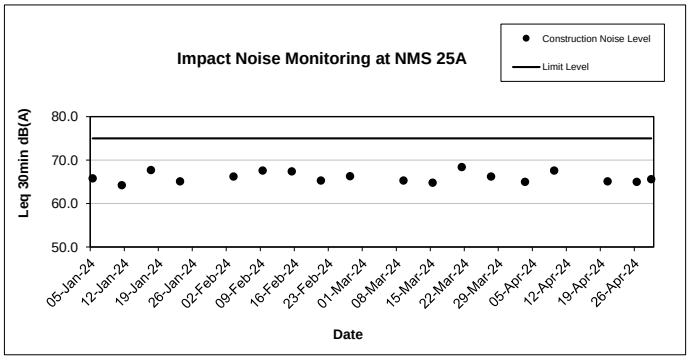

Impact Noise Monitoring at NMS 18
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

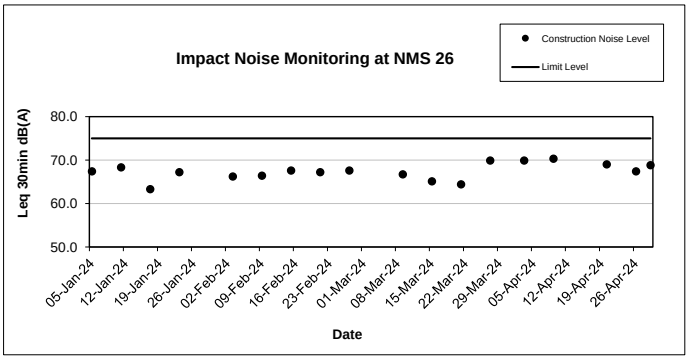

Impact Noise Monitoring at NMS 19
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date

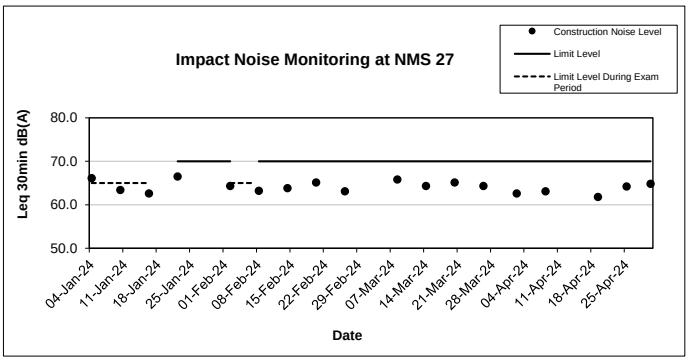

Impact Noise Monitoring at NMS 20
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date


Impact Noise Monitoring at NMS 23
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date


Impact Noise Monitoring at NMS 24
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date


Impact Noise Monitoring at NMS 25A
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date


Impact Noise Monitoring at NMS 26
Construction Noise Level
Limit Level
Leq 30min dB(A)
80.0
70.0
60.0
50.0
05-Jan-24
12-Jan-24
19-Jan-24
26-Jan-24
02-Feb-24
09-Feb-24
16-Feb-24
23-Feb-24
01-Mar-24
08-Mar-24
15-Mar-24
22-Mar-24
29-Mar-24
05-Apr-24
12-Apr-24
19-Apr-24
26-Apr-24
Date


Impact Noise Monitoring at NMS 27
Construction Noise Level
Limit Level
Limit Level During Exam Period
Leq 30min dB(A)
80.0
70.0
60.0
50.0
04-Jan-24
11-Jan-24
18-Jan-24
25-Jan-24
01-Feb-24
08-Feb-24
15-Feb-24
22-Feb-24
29-Feb-24
07-Mar-24
14-Mar-24
21-Mar-24
28-Mar-24
04-Apr-24
11-Apr-24
18-Apr-24
25-Apr-24
Date

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)
6-Apr-24	03:04	59.0	61.4	52.8 - 66.3	55	Measured Noise Level<Baseline	Fine	0.2
9-Apr-24	23:00	60.4				Measured Noise Level<Baseline	Fine	0.1
19-Apr-24	01:02	58.8				Measured Noise Level<Baseline	Fine	0.3
23-Apr-24	23:00	60.5				Measured Noise Level<Baseline	Fine	0.4

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)
5-Apr-24	23:00	52.9	49.7	40.1 - 58.2	55	Measured Noise Level<Limit Level	Fine	0.3
9-Apr-24	23:02	49.0				Measured Noise Level<Limit Level	Fine	0.6
18-Apr-24	23:04	53.1				Measured Noise Level<Limit Level	Fine	0.2
23-Apr-24	23:01	48.4				Measured Noise Level<Limit Level	Fine	0.3

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)
6-Apr-24	02:39	62.9	70.9	60.2 - 78.9	55	Measured Noise Level<Baseline	Fine	0.5
9-Apr-24	23:23	58.1				Measured Noise Level<Baseline	Fine	0.3
19-Apr-24	00:33	63.6				Measured Noise Level<Baseline	Fine	0.2
23-Apr-24	23:28	60.1				Measured Noise Level<Baseline	Fine	0.6

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)
5-Apr-24	23:25	60.9	62.6	53.1 - 68.1	55	Measured Noise Level<Baseline	Fine	0.3
9-Apr-24	23:29	59.8				Measured Noise Level<Baseline	Fine	0.4
18-Apr-24	23:29	60.3				Measured Noise Level<Baseline	Fine	0.4
23-Apr-24	23:30	57.5				Measured Noise Level<Baseline	Fine	0.4

NMS 5A Wai Wah Centre (Site Boundary)

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)
6-Apr-24	02:13	62.8	67.9	62.0 - 75.2	55	Measured Noise Level<Baseline	Fine	0.4
9-Apr-24	23:47	60.4				Measured Noise Level<Baseline	Fine	0.7
19-Apr-24	00:07	64.0				Measured Noise Level<Baseline	Fine	0.5
23-Apr-24	23:56	60.4				Measured Noise Level<Baseline	Fine	0.1

NMS 6A Wai Wah Centre (Site Boundary)

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)
6-Apr-24	01:54	69.8	71.5	65.0 - 85.9	55	Measured Noise Level<Baseline	Fine	0.5
10-Apr-24	00:15	63.8				Measured Noise Level<Baseline	Fine	1.1
18-Apr-24	23:46	70.3				Measured Noise Level<Baseline	Fine	0.3
24-Apr-24	00:21	63.3				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)
5-Apr-24	23:45	59.8	59.0	51.4 - 65.5	55	52.1*	Fine	0.3
9-Apr-24	23:48	58.3				Measured Noise Level<Baseline	Fine	0.5
18-Apr-24	23:49	60.1				53.6*	Fine	0.4
23-Apr-24	23:49	56.7				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)
5-Apr-24	23:32	61.8	64.4	55.6 - 72.8	55	Measured Noise Level<Baseline	Fine	0.4
10-Apr-24	00:42	59.0				Measured Noise Level<Baseline	Fine	0.1
18-Apr-24	23:05	61.9				Measured Noise Level<Baseline	Fine	0.4
24-Apr-24	00:44	59.2				Measured Noise Level<Baseline	Fine	1.0

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)
6-Apr-24	00:16	55.8	53.5	39.5 - 63.1	55	51.9*	Fine	0.2
10-Apr-24	01:32	53.4				Measured Noise Level<Limit Level	Fine	1.2
19-Apr-24	01:29	55.6				51.4*	Fine	0.2
24-Apr-24	01:32	53.8				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 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)
6-Apr-24	00:47	53.4	53.2	46.1 - 62.8	55	Measured Noise Level<Limit Level	Fine	0.6
10-Apr-24	00:45	52.6				Measured Noise Level<Limit Level	Fine	0.6
19-Apr-24	00:52	53.9				Measured Noise Level<Limit Level	Fine	0.6
24-Apr-24	00:46	50.5				Measured Noise Level<Limit Level	Fine	0.3

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)
6-Apr-24	00:38	53.2	57.3	45.4 - 72.5	55	Measured Noise Level<Limit Level	Fine	0.5
10-Apr-24	01:59	56.0				Measured Noise Level<Baseline	Fine	1.0
19-Apr-24	01:48	53.2				Measured Noise Level<Limit Level	Fine	0.3
24-Apr-24	02:00	56.2				Measured Noise Level<Baseline	Fine	0.2

Note:

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)
6-Apr-24	01:06	56.8	54.1	46.1 - 62.8	55	53.5*	Fine	0.3
10-Apr-24	01:04	53.7				Measured Noise Level<Limit Level	Fine	0.5
19-Apr-24	01:11	57.3				54.5*	Fine	0.3
24-Apr-24	01:05	53.5				Measured Noise Level<Limit Level	Fine	0.4

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)
6-Apr-24	01:30	59.1	58.8	48.4 - 69.7	55	47.3*	Fine	0.4
10-Apr-24	01:23	55.5				Measured Noise Level<Baseline	Fine	0.6
19-Apr-24	01:33	59.1				47.3*	Fine	0.4
24-Apr-24	01:24	56.1				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 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)
5-Apr-24	01:50	57.7	60.1	51.4 - 69.5	55	Measured Noise Level<Baseline	Fine	0.3
10-Apr-24	01:41	56.1				Measured Noise Level<Baseline	Fine	0.4
19-Apr-24	01:55	58.0				Measured Noise Level<Baseline	Fine	0.2
24-Apr-24	01:43	54.3				Measured Noise Level<Limit Level	Fine	0.6

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)
5-Apr-24	02:09	54.8	63.2	56.0 - 72.1	55	Measured Noise Level<Limit Level	Fine	0.4
10-Apr-24	01:59	56.3				Measured Noise Level<Baseline	Fine	0.6
19-Apr-24	02:15	55.0				Measured Noise Level<Baseline	Fine	0.2
24-Apr-24	02:04	52.4				Measured Noise Level<Limit Level	Fine	0.4

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)
6-Apr-24	01:04	53.0	61.7	53.8 - 72.8	55	Measured Noise Level<Limit Level	Fine	0.3
10-Apr-24	02:27	53.9				Measured Noise Level<Limit Level	Fine	0.5
19-Apr-24	02:17	53.7				Measured Noise Level<Limit Level	Fine	0.4
24-Apr-24	02:24	52.9				Measured Noise Level<Limit Level	Fine	0.5

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)
6-Apr-24	01:23	49.8	57.7	48.6 - 71.7	55	Measured Noise Level<Limit Level	Fine	0.3
10-Apr-24	02:53	54.8				Measured Noise Level<Limit Level	Fine	0.9
19-Apr-24	02:36	50.8				Measured Noise Level<Limit Level	Fine	0.3
24-Apr-24	02:24	52.9				Measured Noise Level<Limit Level	Fine	0.3

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)
6-Apr-24	00:06	59.0	59.9	47.8 - 69.8	55	Measured Noise Level<Baseline	Fine	0.3
10-Apr-24	00:06	56.4				Measured Noise Level<Baseline	Fine	0.6
19-Apr-24	00:10	60.0				43.6*	Fine	0.4
24-Apr-24	00:08	56.2				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 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)
5-Apr-24	23:50	59.3	58.0	50.2 - 66.7	55	53.4*	Fine	0.4
10-Apr-24	01:05	58.5				48.9*	Fine	0.3
21-Apr-24	23:24	58.9				51.6*	Fine	0.5
24-Apr-24	01:09	59.2				53.0*	Fine	0.7

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

NMS 25A Sheung Wo Che

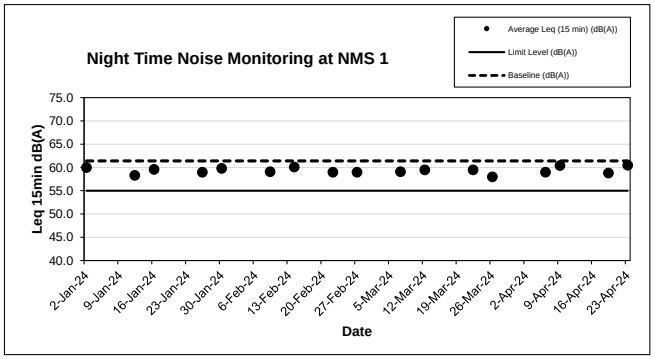
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
6-Apr-24	00:26	54.2	59.7	50.3 - 68.4	55	Measured Noise Level<Limit Level	Fine	0.4
10-Apr-24	00:26	56.7				Measured Noise Level<Baseline	Fine	0.7
19-Apr-24	00:31	54.9				Measured Noise Level<Limit Level	Fine	0.3
24-Apr-24	00:28	57.4				Measured Noise Level<Baseline	Fine	0.4

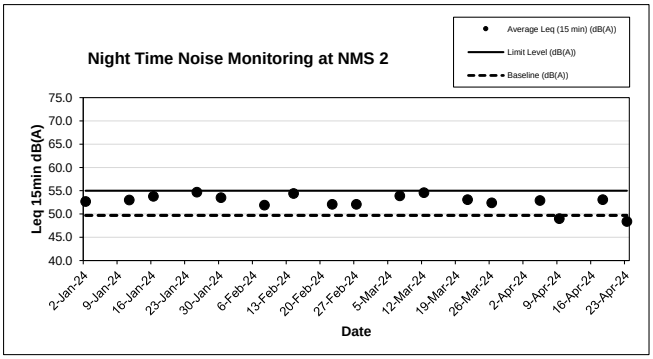
NMS 26 Wo Che Estate

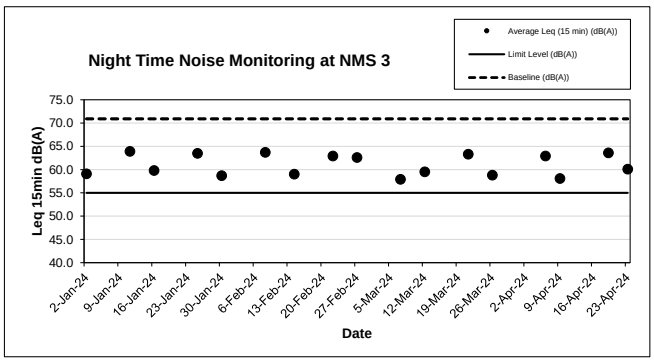
Date	Start Time	Average Leq (15 min) (dB(A))	Baseline (dB(A))	Baseline Range (dB(A))	Limit Level (dB(A))	Corrected Noise Level (dB(A))	Weather	Wind Speed (m/s)
5-Apr-24	02:32	60.1	61.2	45.7 - 70.1	55	Measured Noise Level<Baseline	Fine	0.3
10-Apr-24	02:35	60.5				Measured Noise Level<Baseline	Fine	0.5
19-Apr-24	02:38	60.3				Measured Noise Level<Baseline	Fine	0.4
24-Apr-24	02:32	60.0				Measured Noise Level<Baseline	Fine	0.5

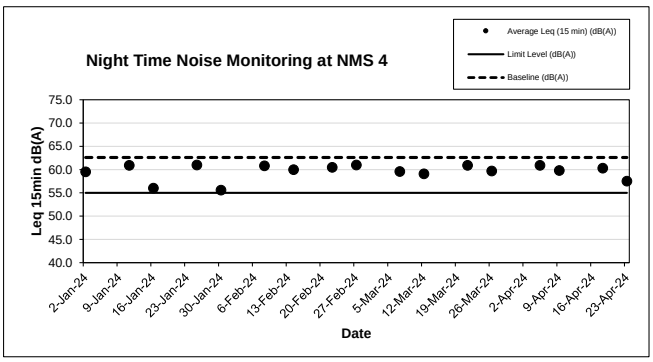
If measured noise level (L_{eq}) > limit level, Corrected noise level (CNL) is calculated as:

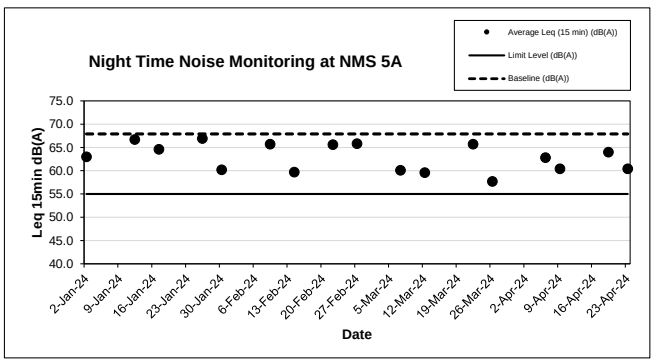
$$10 \times \log \left[\left(10^{\frac{\text{Measured noise level, Leq}}{10}} \right) - \left(10^{\frac{\text{Baseline noise level}}{10}} \right) \right]$$

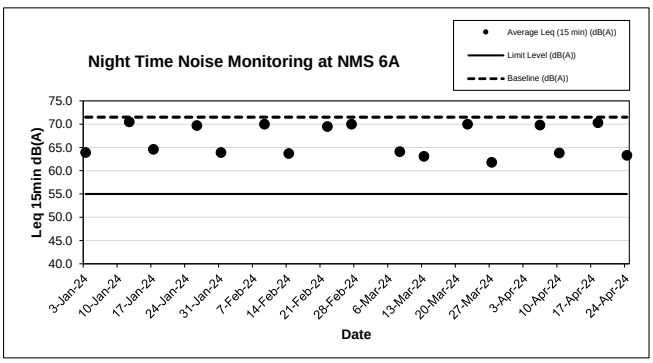

Night Time Noise Monitoring at NMS 1
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
Date

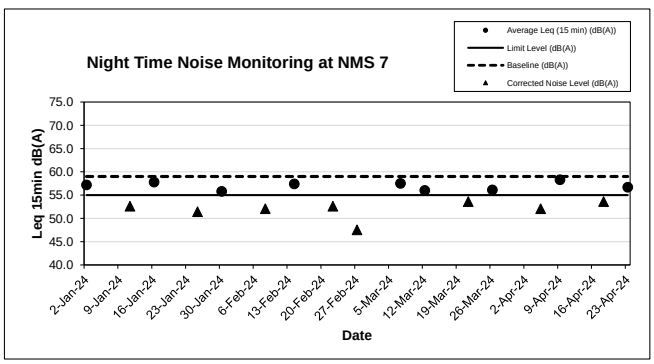

Night Time Noise Monitoring at NMS 2
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
Date

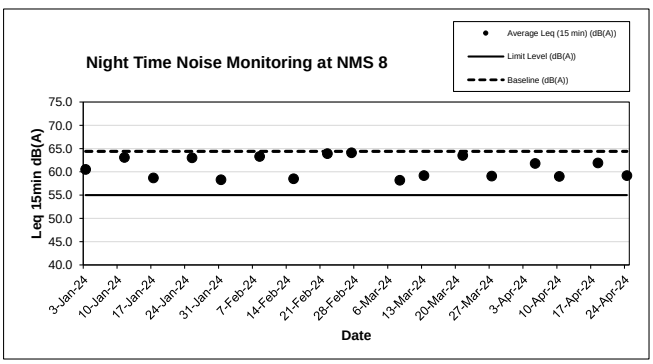

Night Time Noise Monitoring at NMS 3
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
Date

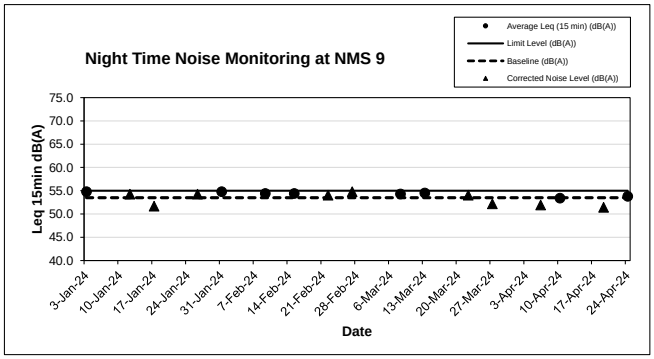

Night Time Noise Monitoring at NMS 4
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
Date

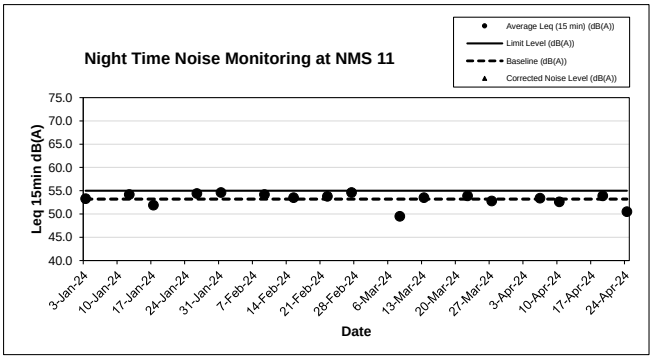

Night Time Noise Monitoring at NMS 5A
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
Date

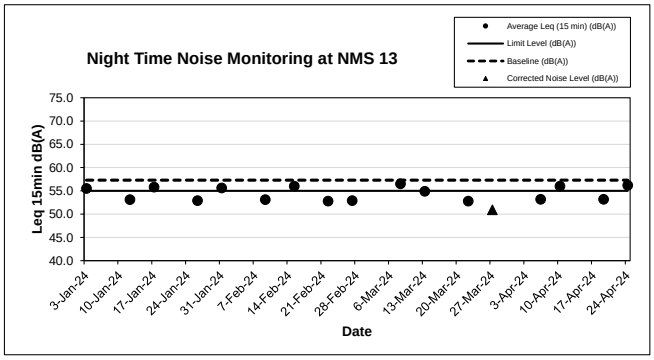

Night Time Noise Monitoring at NMS 6A
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
Date

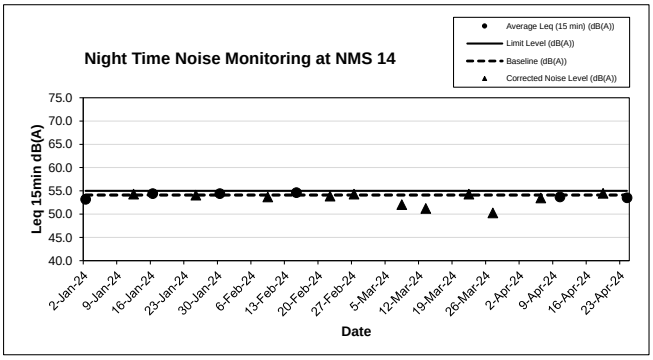

Night Time Noise Monitoring at NMS 7
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
Date

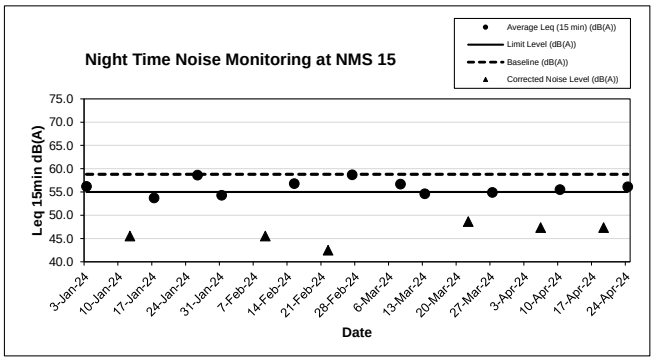

Night Time Noise Monitoring at NMS 8
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
Date

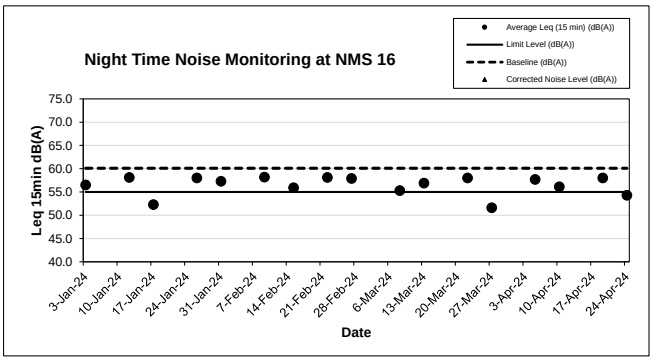

Night Time Noise Monitoring at NMS 9
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
Date

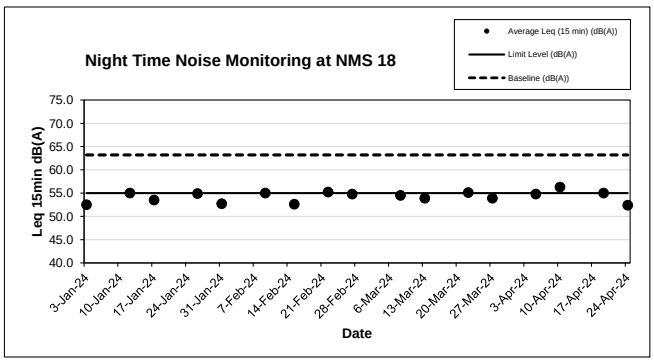

Night Time Noise Monitoring at NMS 11
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
Date

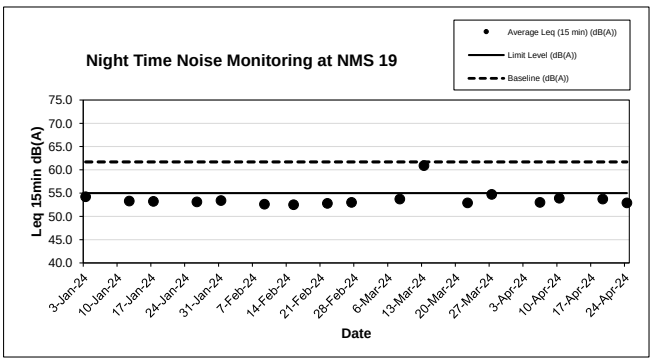

Night Time Noise Monitoring at NMS 13
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
Date

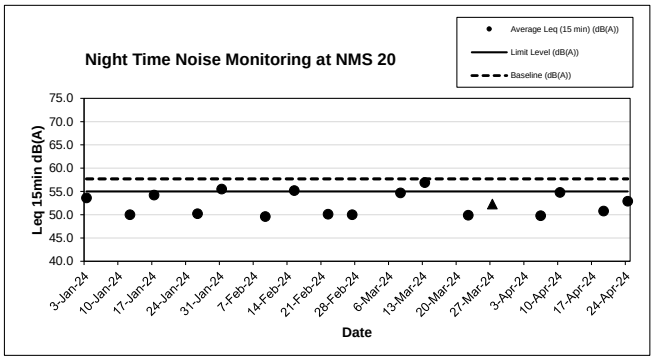

Night Time Noise Monitoring at NMS 14
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
Date

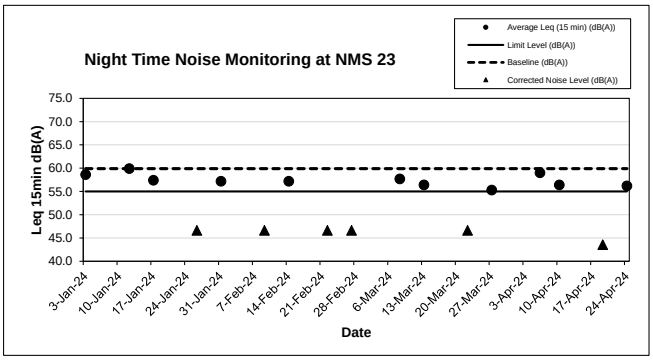

Night Time Noise Monitoring at NMS 15
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
Date

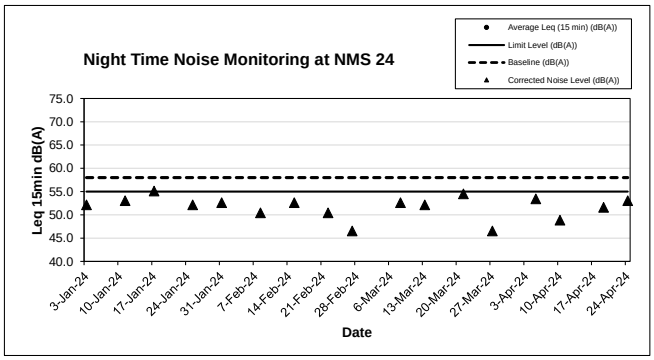

Night Time Noise Monitoring at NMS 16
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
Date

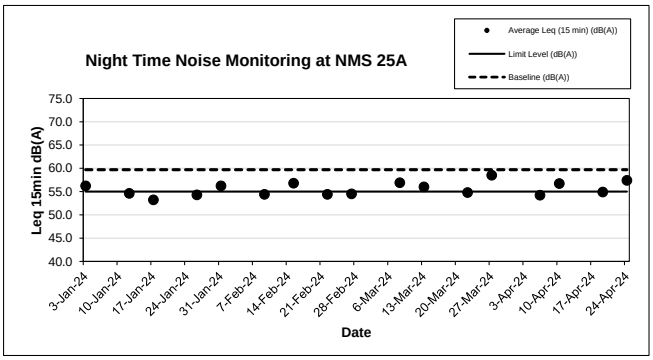

Night Time Noise Monitoring at NMS 18
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
Date

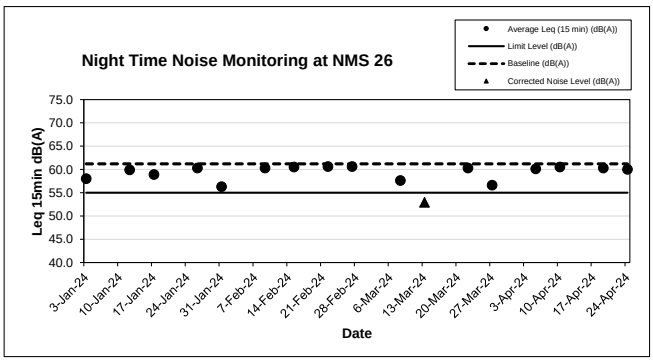

Night Time Noise Monitoring at NMS 19
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
Date


Night Time Noise Monitoring at NMS 20
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
3-Jan-24
10-Jan-24
17-Jan-24
24-Jan-24
31-Jan-24
7-Feb-24
14-Feb-24
21-Feb-24
28-Feb-24
6-Mar-24
13-Mar-24
20-Mar-24
27-Mar-24
3-Apr-24
10-Apr-24
17-Apr-24
24-Apr-24
Date


Night Time Noise Monitoring at NMS 23
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
3-Jan-24
10-Jan-24
17-Jan-24
24-Jan-24
31-Jan-24
7-Feb-24
14-Feb-24
21-Feb-24
28-Feb-24
6-Mar-24
13-Mar-24
20-Mar-24
27-Mar-24
3-Apr-24
10-Apr-24
17-Apr-24
24-Apr-24
Date


Night Time Noise Monitoring at NMS 24
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
3-Jan-24
10-Jan-24
17-Jan-24
24-Jan-24
31-Jan-24
7-Feb-24
14-Feb-24
21-Feb-24
28-Feb-24
6-Mar-24
13-Mar-24
20-Mar-24
27-Mar-24
3-Apr-24
10-Apr-24
17-Apr-24
24-Apr-24
Date


Night Time Noise Monitoring at NMS 25A
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
3-Jan-24
10-Jan-24
17-Jan-24
24-Jan-24
31-Jan-24
7-Feb-24
14-Feb-24
21-Feb-24
28-Feb-24
6-Mar-24
13-Mar-24
20-Mar-24
27-Mar-24
3-Apr-24
10-Apr-24
17-Apr-24
24-Apr-24
Date


Night Time Noise Monitoring at NMS 26
Average Leq (15 min) (dB(A))
Limit Level (dB(A))
Baseline (dB(A))
Corrected Noise Level (dB(A))
Leq 15min dB(A)
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
3-Jan-24
10-Jan-24
17-Jan-24
24-Jan-24
31-Jan-24
7-Feb-24
14-Feb-24
21-Feb-24
28-Feb-24
6-Mar-24
13-Mar-24
20-Mar-24
27-Mar-24
3-Apr-24
10-Apr-24
17-Apr-24
24-Apr-24
Date

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix H

Events and Action Plan

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

Event and Action Plan for Construction Dust Monitoring

EVENT	ACTION			
	ET Leader	IEC	SO	Contractor
Action Level				
1. Exceedance for one sample	1. Identify the source. 2. Inform the IEC and the SO. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by the ET Leader. 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice. 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify the source. 2. Inform the IEC and the SO. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency to daily. 5. Discuss with the IEC and the Contractor on remedial actions required. 6. If exceedance continues, arrange meeting with the IEC and the SO. 7. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET Leader. 2. Check the Contractor's working method. 3. Discuss with the ET Leader and the Contractor on possible remedial measures. 4. Advise the SO on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to IEC within 3 working days of notification. 2. Implement the agreed proposals. 3. Amend proposal if appropriate.
Limit Level				
1. Exceedance for one sample	1. Identify the source. 2. Inform the SO and the EPD. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency to daily. 5. Assess effectiveness of Contractor's remedial actions and keep the IEC, the EPD and the SO informed of the results.	1. Check monitoring data submitted by the ET Leader. 2. Check Contractor's working method. 3. Discuss with the ET Leader and the Contractor on possible remedial measures. 4. Advise the SO on the effectiveness of the proposed remedial measures. 5. Supervisor implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures are properly implemented.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Amend proposal if appropriate.
2.	1. Notify the IEC, the SO	1. Discuss amongst	1. Confirm	1. Take immediate

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

EVENT	ACTION			
	ET Leader	**IEC**	**SO**	**Contractor**
Exceedance for two or more consecutive samples	and the EPD and the Contractor. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency to daily. 5. Carry out analysis of the Contractor's working procedures to determine possible mitigation to be implemented. 6. Arrange meeting with the IEC and the SO to discuss the remedial actions to be taken. 7. Assess effectiveness of Contractor's remedial actions and keep the IEC, the EPD and the SO informed of the results. 8. If exceedance stops, cease additional monitoring.	the SO, ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly. 3. Supervisor implementation of remedial measures.	receipt of notification of failure in writing. 2. Notify the Contractor. 3. In consultation with the Contractor on the remedial measures to be implemented. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the SO until the exceedance is abated.

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

Event and Action Plan for Noise Impact

EVENT	ACTION			
	ET Leader	**IEC**	**SO**	**Contractor**
Action Level	1. Notify the IEC and the Contractor. 2. Carry out investigation. 3. Report the results of investigation to the IEC. 4. Discuss with the Contractor and formulate remedial measures. 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the SO accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC. 2. Implement noise mitigation proposals.
Limit Level	1. Notify the IEC, the SO and the Contractor. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform the IEC, the SO and the EPD the causes & actions taken for the exceedance. 7. Assess effectiveness if the Contractor's remedial actions and keep the IEC and the SO informed of the results. 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst the SO, the ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activities of the work is responsible and instruct the Contractor to stop that activity of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance, 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant activity of works as determined by the SO until the exceedance is abated.

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

Event and Action Plan for Landscape and Visual Impact

Event	Action		
	ET	SO	Contractor
Non-conformity on one occasion	1. Identify Source; 2. Inform the Contractor and the SO; 3. Discuss remedial actions with the SO and the Contractor; and 4. Monitor remedial actions until rectification has been completed	1. Notify Contractor; and 2. Ensure remedial measures are properly implemented.	1. Amend working methods; 2. Rectify damage and undertake any necessary replacement.
Repeated Non-conformity	1. Identify Source; 2. Inform the Contractor and the SO; 3. Increase monitoring frequency; 4. Discuss remedial actions with the SO and the Contractor; 5. Monitor remedial actions until rectification has been completed; and 6. If exceedance stops, cease additional monitoring.	1. Notify Contractor; and 2. Ensure remedial measures are properly implemented.	1. Amend working methods; 2. Rectify damage and undertake any necessary replacement.

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix I

Waste Flow Table

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Waste Flow Table for Year 2018

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)
2018 Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2018 Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
2018 Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
2018 Dec	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
Total	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.018

Note:
1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m^3.

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Waste Flow Table for Year 2019

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)
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

Note:
1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m^3.

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

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

Note:
1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m^3.

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

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	0.019	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	1.698	0.000	0.000	0.000	1.698	0.000	0.001	0.004	0.003	0.000	0.049
2021 Oct	1.500	0.000	0.000	0.000	1.500	0.279	0.002	0.003	0.005	0.000	0.021
2021 Nov	3.258	0.000	0.000	0.000	3.258	0.015	0.002	0.009	0.007	0.000	0.070
2021 Dec	1.935	0.000	0.000	0.000	1.935	0.000	0.002	0.003	0.002	0.000	0.035
Total	36.019	0.000	0.476	0.000	35.543	0.866	0.017	0.331	2.545	0.000	0.666

Note:
1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m^3.

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Waste Flow Table for Year 2022

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)
2022 Jan	1.815	0.000	0.064	0.000	1.751	0.097	20.640	0.000	0.000	0.000	0.410
2022 Feb	2.683	0.000	0.045	0.000	2.638	0.000	0.002	0.004	0.004	0.000	0.022
2022 Mar	3.039	0.000	0.000	0.000	3.039	0.037	0.000	0.000	0.000	0.000	0.026
2022 Apr	6.023	0.000	0.000	0.000	6.023	0.030	0.001	0.419	0.005	0.000	0.064
2022 May	10.291	0.000	0.000	0.000	10.291	0.159	0.001	0.011	0.003	0.000	0.042
2022 Jun	5.469	0.000	0.000	0.000	5.469	0.187	0.000	0.000	0.000	0.000	0.074
Sub-Total	29.320	0.000	0.109	0.000	29.211	0.510	20.644	0.434	0.012	0.000	0.638
2022 Jul	3.136	0.000	0.000	0.000	3.136	0.476	0.001	0.013	0.003	0.000	0.141
2022 Aug	4.111	0.000	0.000	0.000	4.111	0.431	6.871	0.373	0.010	0.000	0.088
2022 Sep	7.150	0.000	0.000	0.000	7.150	0.634	13.280	0.000	0.000	0.000	0.062
2022 Oct	8.330	0.000	0.000	0.000	8.330	1.896	0.001	0.008	0.003	0.000	0.070
2022 Nov	5.581	0.000	0.000	0.000	5.581	1.174	0.001	0.008	0.006	0.000	0.074
2022 Dec	6.787	0.000	0.000	0.000	6.787	1.134	0.001	0.003	0.001	0.000	0.080
Total	64.415	0.000	0.109	0.000	64.306	6.255	40.799	0.839	0.035	0.000	1.153

Note:

1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.
3) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m^3.

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Waste Flow Table for Year 2023

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)
2023 Jan	4.592	0.000	0.000	0.000	4.592	0.322	0.000	0.220	0.002	0.000	0.067
2023 Feb	6.448	0.000	0.000	0.000	6.448	0.500	0.001	0.281	0.003	0.000	0.055
2023 Mar	8.344	0.000	0.000	0.000	8.344	0.579	0.001	0.338	0.050	0.000	1.390
2023 Apr	5.538	0.000	0.000	0.000	5.538	1.625	0.001	0.220	0.005	0.000	0.935
2023 May	6.803	0.000	0.000	0.000	6.803	1.544	0.001	0.000	0.002	0.000	0.073
2023 Jun	8.089	0.000	0.000	0.000	8.089	0.142	0.002	0.183	0.002	0.000	0.192
Sub-Total	39.814	0.000	0.000	0.000	39.814	4.712	0.006	1.242	0.064	0.000	2.712
2023 Jul	9.764	0.000	0.000	0.000	9.764	0.041	0.001	0.200	0.004	0.000	0.144
2023 Aug	9.311	0.000	0.000	0.000	9.311	0.246	0.001	0.173	0.007	0.000	0.142
2023 Sep	5.913	0.000	0.000	0.000	5.913	0.010	0.001	0.002	0.005	0.000	0.120
2023 Oct	10.667	0.000	0.000	0.000	10.667	0.000	0.000	0.177	0.000	0.000	0.139
2023 Nov	11.660	0.000	0.000	0.000	11.660	0.000	0.001	0.210*	0.009	0.000	0.102
2023 Dec	12.737	0.000	0.000	0.000	12.737	0.000	0.000	0.000	0.000	0.000	0.115
Total	99.866	0.000	0.000	0.000	99.866	5.009	0.010	2.003	0.089	0.000	3.475

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.

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Waste Flow Table for Year 2024

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)
2024 Jan	7.467	0.000	0.000	0.000	7.467	0.368	0.002	0.203	0.009	0.000	0.071
2024 Feb	10.629	0.000	0.000	0.000	10.629	0.388*	0.001	0.227	0.006	0.000	0.099
2024 Mar	6.250	0.000	0.000	0.000	6.250	0.647	0.000	0.000	0.000	0.000	0.585
2024 Apr	9.962	0.000	0.000	0.000	9.962	0.000	0.000	0.000	0.000	0.000	0.135
2024 May											
2024 Jun											
Sub-Total	34.308	0.000	0.000	0.000	34.308	1.403	0.003	0.430	0.015	0.000	0.890
2024 Jul											
2024 Aug											
2024 Sep											
2024 Oct											
2024 Nov											
2024 Dec											
Total	34.308	0.000	0.000	0.000	34.308	1.403	0.003	0.430	0.015	0.000	0.890

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.
4) *Updated figures are present in this reporting month.

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix J

Environmental Mitigation Implementation Schedule (EMIS)

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		Noise Measures		
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 constriction 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	Implemented
		• 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	Implemented
		• Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes	Contractor	Implemented
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
		• These temporary noise barriers should be located immediately adjacent to working area.	Contractor	Implemented

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

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• The temporary noise barriers should be located along the working area to make sure the construction plant could be screened during all kinds of construction activities as far as practicable.	Contractor	Not Applicable
		• Noise jacket/muffler shall be used to cover the noisy part of the engine or at the engine exhaust of particular mobile plants respectively when temporary noise barriers are not practicable or noise reduction achieved is insufficient.	Contractor	Implemented
		• For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided.	Contractor	Not Applicable
		• Barrier material of surface density of at least 14 kg/m^2 is recommended in order to achieve the necessary screening effect.	Contractor	Not Applicable
3.10.10		• Full noise enclosures should cover the PME or fixed plants such as air compressor.	Contractor	Implemented
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, especially during the dry season (October to December). It is also suggested that watering with	Contractor	Implemented

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		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	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	Implemented
		• 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	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 and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground.	Contractor	Implemented

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
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	Implemented
Water Quality Measures				
5.7	Within the boundaries of all construction sites.	• Silt-laden surface run-off should be prevented from directly entering the sensitive receivers during the construction works. The mitigation measures described below for the construction phase are in accordance with ProPECC PN 1/94:	Contractor	Partially Implemented
		• Construction works should be programmed so as to minimise excavation during the wet season (April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm.	Contractor	Implemented
		• 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	Implemented
		• The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be constructed prior to the commencement of site formation and earthworks.	Contractor	Implemented
		• The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained	Contractor	Implemented

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		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.		
		• The ingress of rainwater into trenches should be minimised by the construction of bunds to prevent water flowing into the trench and covering by tarpaulins to prevent direct entry. The lengths of excavated trenches should be minimised and backfilled at the earliest opportunity. Water pumped from the trenches should be discharged to the storm water drains following passage through a suitable silt trap.	Contractor	Implemented
		• Any ground water seeping into any trenches or foundation works should be passed through a silt trap prior to discharge to the storm water drains.	Contractor	Implemented
		• The water used for the washing down of mixing drums used for onsite batching of concrete and delivery lorries for off-site batched concrete should be recycled whenever possible. Wastewater generated from the washing which is discharged should be passed through a silt trap before discharge to the storm water system.	Contractor	Not Applicable
		• 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	Implemented
		• 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 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.	Contractor	Implemented

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		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. AII 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	Partially Implemented
Section 12.6 of the Approved EIA Report		• 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	Implemented
		(ii) The functioning of interception channels at the boundary of the works areas	Contractor	Implemented
		(iii) The covering of stockpiles of fill and construction materials and the routing of any run off through the sediment traps.	Contractor	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
Landscape and Visual Mitigation Measures				
Table 6.5	**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

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• 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
		• 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
		Waste Management Measures		
7.6.2 to 7.6.4	Within the boundaries of all construction	• 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	Contractor	Implemented

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
	sites.	categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval.		
		• The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	Contractor	Implemented
7.6.5 to 7.6.6		• 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
		• Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste.	Contractor	Implemented
		• Specific measures targeting the mitigation of impacts in works areas and the transportation of spoil off-site should be provided to minimize the potential impacts to the surrounding environment.	Contractor	Implemented
7.6.7	Within the boundaries of all construction sites as well as transportation routes to designed areas for off-site disposal of materials/Prior to and during construction activities.	• 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		• The contractor's environmental performance shall be monitored and controlled through the weekly environmental walks. The items after the environmental walks shall include:		
		• A review of the EMP in particular the suitability of the environmental measures on nuisance abatement and waste management adopted by the contractor;	Contractor	Implemented
		• The environmental performance of the contractor and his sub-contractors;	Contractor	Implemented
		• The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and	Contractor	Implemented
		• The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site.	Contractor	Implemented
		• Waste shall only be disposed of at licensed sites and the WMP should include procedures to ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&D materials and non-inert C&D materials at public fill reception facilities and landfills, respectively. Appropriate measures should be employed to minimize windblown litter and dust during transportation by either covering trucks or transporting wastes in	Contractor	Implemented

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

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

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		• 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	Partially Implemented
		• have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest;	Contractor	Implemented
		• have adequate ventilation;	Contractor	Implemented
		• be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); and	Contractor	Implemented
		• be arranged so that incompatible materials are adequately separated.	Contractor	Implemented
		The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other chemical wastes as defined in the Waste Disposal (Chemical Waste) (General) Regulation will require disposal by appropriate means and could require pre-notification to EPD prior to disposal. Appropriate means include disposal:		
		• via a licensed waste collector; and	Contractor	Implemented
		• to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers; or	Contractor	Implemented
		• to a reuser of the waste, under approval from EPD.	Contractor	Not Applicable
7.6.18 to 7.6.20		• General refuse generated on-site should be stored in enclosed bins or compaction units separate from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily or every second day basis to minimize odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law.	Contractor	Partially Implemented
		• Separate labelled bins should be provided if feasible.	Contractor	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	Contractor	Partially Implemented

EIA Review Ref	Location	Environmental Protection Measures/	Implementation Agent	Implementation Status in Construction Phase
		requirements.		
		• The mitigation measures recommended in the EIA/EIA review report should form a basis of the WMP to be developed by the Contractor in the construction phase of the Project.	Contractor	Implemented
EP 1.5		*General Condition*		
N.A	During construction within the Project Boundary.	• The Permit Holder shall display conspicuously a copy of this Permit on the Project site(s) at all vehicular site entrance/exits or at a convenient location for public information at all times. The Permit Holder shall ensure that the most updated information about the Permit, including ant amended Permit, is displayed at such locations. If the Permit Holder surrenders a part or the whole of the Permit, the notice he sends to the Director shall also be displayed at the same locations as the original Permit. The suspended, varied or cancelled Permit shall be removed from display at the Project site(s).	Contractor	Implemented

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

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix K

Weather and Meteorological Conditions during Reporting Month

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Date	Mean Pressure (hPa)	Air Temperature			Mean Relative Humidity (%)	Total Rainfall (mm)
		Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)		
April 2024						
1	1010.0	29.1	27.3	26.3	81	Trace
2	1009.3	28.9	27.0	25.9	80	-
3	1010.1	28.9	27.3	26.1	80	Trace
4	1010.5	28.5	27.2	26.5	81	Trace
5	1011.9	29.3	26.5	24.7	81	0.3
6	1012.1	25.4	24.4	23.4	89	2.7
7	1010.6	28.3	25.4	23.7	88	0.9
8	1012.3	28.8	25.1	23.0	87	-
9	1015.8	24.3	22.9	21.7	78	Trace
10	1017.2	26.8	23.7	21.9	68	-
11	1016.1	27.7	24.5	22.8	77	-
12	1013.5	30.2	25.8	23.1	78	-
13	1011.4	31.9	26.9	24.3	77	-
14	1012.0	31.4	27.7	25.7	78	-
15	1013.0	30.3	27.7	26.2	79	-
16	1011.1	31.4	27.9	25.2	77	-
17	1009.9	30.9	28.4	27.0	78	-
18	1008.9	29.5	26.9	24.1	80	8.6
19	1008.2	29.9	27.6	26.1	80	2.2
20	1008.0	29.5	27.4	23.3	81	42.2
21	1009.3	27.2	23.9	21.5	90	81.6
22	1008.8	26.9	25.2	23.3	90	13.2
23	1008.0	27.2	25.4	24.6	91	40.0
24	1008.9	27.8	25.9	24.8	88	Trace
25	1007.1	28.5	26.6	24.4	86	5.7
26	1004.3	29.0	27.3	24.4	88	25.0
27	1005.1	30.2	28.8	27.7	85	0.8
28	1008.9	28.3	25.4	23.4	90	12.2
29	1008.5	29.9	27.7	25.3	85	-
30	1005.0	30.5	28.6	23.1	81	21.7

Remark: Trace means rainfall less than 0.05 mm

Source: Hong Kong Observatory

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix L

Cumulative statistics on Environmental Complaints, Notifications of Summons and Successful Prosecutions

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

Environmental Complaints Log

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2019-005	02/02/2019	EPD	CCZJV	Noise	13/02/2019	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 15th 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.	20/02/2019
COM-2019-006	22/02/2019	Project Hotline of NE/2017/05	CCZJV	Noise	26/02/2019	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.	04/03/2019
COM-2019-0010	28/03/2019	Project Hotline of NE/2017/05	CCZJV	Noise	28/03/2019	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	04/04/2019

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						into the lorry skip in care when loading. Besides, a layer of soft material (soil/tree debris) was observed leaving inside the skip of the grab lorry to reduce the loading noise. Contractor was reminded to strictly follow and fully comply with the CNP (GW-RN0132-19) conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour.	
COM-2019-0033	26/07/2019	Police visit on-site	CCZJV	Noise	26/07/2019	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.	30/07/2019
COM-2019-0045	30/08/2019	1823	CCZJV	Noise	30/08/2019	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 <=10kg (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	19/09/2019

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						absorbing lining, or equivalent construction. Contractor was reminded to use portable phones and head-set only for communication, and none of loudspeakers is allowed for night work activities.	
COM-2019-0056	09/10/2019	Project Hotline of NE/2017/05and EPD	CCZJV	Noise	19/10/2019	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 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.	04/11/2019
COM-2019-0057	09/10/2019	EPD	CCZJV	Noise	18/10/2019	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.	21/10/2019

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2019-0066	06/11/2019	EPD	CCZJV	Noise	07/11/2019	The complaint of the emergency road repair work is related to the project. The works on on 5th 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.	12/11/2019
COM-2020-0083	29/02/2020	Project email of NE/2017/05	CCZJV	Noise and Dust	29/02/2020	The complaint of the dust and noise nuisance near Wai Wah Centre during both the day and night works was at zone 2. The construction works at zone 2 was the mini-piling operation during the day time was same as the complaint. Thus, the complaint in daytime is related to the project. Furthermore, loading and unloading works was carried in night time. 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. ET checked the regular impact air and noise monitoring data between day time and night-time regular noise monitoring data, no exceedance case was found on both regular impact air and noise monitoring measurement. The main contractor should carry out further review the effectiveness of the enclosure or noise barrier with their mitigation measure and propose alternative noise mitigation measures to enhance the noise reduction on similar day works or night works in restricted hours.	19/03/2020
COM-2020-0089	24/03/2020	Project hotline	CCZJV	Noise	24/03/2020	A resident of Wai Wah Centre complained that noise generated from construction activities at night disturbing the nearby resident. According to the Contractor's information, loading/unloading, steel bar cutting, steel plate grinding and asphalt compaction were carried out in the early hours of 24th	07/04/2020

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						Mar 2020. The night work activities were within the site boundary. Also, 4 sides with top cover acoustic enclosure for 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. ET analysed that the complaint noise source should not be project-related construction noise.	
COM-2020-0090	27/03/2020	Project hotline	CCZJV	Noise	27/03/2020	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 26th March 2020 to 04:00 27th March 2020, and between 23:00 2nd April 2020 to 04:00 3rd 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. Hence, ET analysed that the dominant noise source should be road traffic noise but not the project-related construction noise.	04/05/2020
COM-2020-0091	28/03/2020	Project hotline	CCZJV	Noise	28/03/2020		
COM-2020-0093	06/04/2020	Project hotline	CCZJV	Noise	06/04/2020	The complaint case on 6th Apr was received by project hotline. The major construction works between (10:00pm – 11:00pm) on 6th 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	28/04/2020

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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 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. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020-0096	20/04/2020	Project hotline	CCZJV	Noise	20/04/2020	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. 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	19/05/2020
COM-2020-0097	20/04/2020	Project Email	CCZJV	Noise	20/04/2020		

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2020-0098	21/04/2020	Project hotline	CCZJV	Noise	21/04/2020	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. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020-0099	21/04/2020	Project hotline	CCZJV	Noise	21/04/2020	The complaint cases on 21st 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 15th 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 23rd April 2020 to 04:00 24th 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. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	05/05/2020

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2020-0100	23/04/2020	Project hotline	CCZJV	Noise	23/04/2020	The complaint was received via project hotline on 23rd 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 23rd April 2020 was mini-piling operation at Zone 2 Central Median of Tai Po Road near Wai Wah Centre. According to the 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 22nd April 2020 at NMS5 & NMS6 can be act as a reference for impact noise from the similar mini-piling operation activities on 23rd April 2020. Therefore, there was no exceedance cases were found in ET regular day-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	11/05/2020
COM-2020-0101	28/04/2020	1823	CCZJV	Noise	28/04/2020	The complainant on via ICC1823 on 28th 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	15/05/2020

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						complainant concerned. The major construction works was road surface remedial work since 15th 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 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 26th 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 2nd and 28th 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. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise.	
COM-2020-0151	10/11/2020	EPD	CCZJV	Water	10/11/2020	The complainant on 10th 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.	27/11/2020

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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 17th 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 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-2020-0152	20/11/2020	1823	CCZJV	Noise	20/11/2020	The complainant on via ICC1823 on 20th 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 19th November 2020 conducted at restricted hours along zone 3 to zone 4 north bound of Tai Po Road Sha Tin section. 3.20 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	07/12/2020

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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.	
COM-2020-153	26/11/2020	EPD	CCZJV	Water	24/11/2020	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 complied 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.	23/12/2020
COM-2020-154	27/11/2020	1823	CCZJV	Noise	30/11/2020	The complaint was received via ICC1823 on 27th November 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate at around 01:14 am on 27th November 2020. According to the Main Contractor, there were no construction works near Wo Che Estate (Zone 5) on 26^27 November 2020. The major construction works were works	14/12/2020

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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 20th November 2020 through logging in the webpage of EPD before the 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	26/11/2020	1823	CCZJV	Dust	30/11/2020	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. 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	05/01/2021

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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 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	CCZJV	Dust	07/12/2020	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 (Appendix C) 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 was 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.	29/12/2020

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						The Main Contractor proposed to increase water spraying at area where active movements of vehicle transportation occur.	
COM-2020-161	18/12/2020	EPD	CCZJV	Noise	18/12/2020	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 7^8 & 8^9 December 2020. According to the Main Contractor, the major construction works was removal of central median works since 7^8 & 8^9 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. 3.4 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 7^8 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 (Appendix F) at all noise monitoring stations, especially measured at six noise monitoring stations mentioned in above section 3.15 where locate close to the works area (Sha Tin station to nearby Fung Wo Estate in Zone 4), the measured result at NMS16, NMS18	05/01/2021

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						and NMS26 were lower than that of measured in the baseline. Besides, the measured result after correction 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	CCZJV	Dust	22/02/2021	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.	05/03/2021
COM-2020-168	20/02/2021	1823	CCZJV	Noise	23/02/2021	The complaint was received via 1823 on 20th February 2021 01:00 am 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	08/03/2021

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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. 3.13 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	CCZJV	Dust and Noise	04/03/2021	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 referred to the Main Contractor	25/03/2021

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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	CCZJV	Noise	08/03/2021	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 Contraction was reminded to strictly follow and fully comply with the CNP No.: GW-RN0798-20 conditions and the mitigation measures	25/03/2021

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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	CCZJV	Noise	17/05/2021	The complaint was first received on 6th May 2021 at 9:27 a.m. via FEHD email. The complaint was then referred to 1823 case: 3-6727963845 on 9th May 2021 at 2:52 p.m. A follow-up complaint was received on 11th May 2021 at 8:20 a.m. The two complaints were referred from 1823 to CEDD on 14th May 2021 at 6:26 p.m. The complaint cases was referred from AECOM to ET on 17th May 2021 at 11:46 a.m. According to the Main Contractor, the major construction works at daytime (08:00-18:00) between 6th to 11th 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 6th, 7th, 12th and 13th May 2021, no exceedance case found. 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). 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 noise nuisance to the NSRs (similar to night-time construction works) during the construction works, for example moveable noise barrier or blanket to block	27/05/2021

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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	CCZJV	Noise	08/06/2021	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	22/06/2021

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						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	CCZJV	Air (Odour)	27/07/2021	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 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. 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	13/08/2021

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						(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, pilling 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.	

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
DSD Ref: MS 8/0/CE2815 /0 pt.6	01/09/21	DSD	CCZJV	Water	02/09/21	Drainage Services Department (DSD) issued a notice (Ref: MS 8/0/CE2815/0 pt.6) to the Engineer's Representative (AECOM) after their morning inspection on 1st September 2021 concerning the improperly treated water being discharged from the construction site near Fung Wo Estate of the Project to nearby public stormwater drainage system, and of the consequence of contaminating the watercourse at Shing Mun River. The letter of concern was referred to Environmental Team (ET) on 2nd September 2021 at 3:24 p.m. for investigation. According to the Main Contractor and AECOM, the major construction work at Zone 5 south boundary was mini-pilling works (at the end of August). Two pilling machines were operating either individually or simultaneously. There are approximate 130 nos. of pile planned to be installed, and mini-piling works are scheduled to be finished in January 2022. Originally, one WetSep (TW-WS1) and two sedimentation tanks (ST1 and ST2) were provided for handling the wastewater generated from the pilling works and site surface runoff at the zone 5 south boundary. According to the information report and photo records provided by the Main Contractor, the sedimentation tanks (ST1 and ST2) were filled with muddy water and silt on 1st September 2021. ET inspected the area at Zone 5 south boundary on 2nd, 9th, 16th and 29th September 2021. Observation, reminders and follow-up action were proposed and monitored by the ET on handling the wastewater generated form piling works and site surface run-off. Moreover, EPIs from EPD conducted the site inspection on 9th and 29th September 2021. The two inspection conducted by the EPIs focused on reviewing the general site condition, wastewater treatment facilities set-up, mitigation measures for preventing muddy water formation, handling the wastewater and surface run-off. Observation, recommendations and reminders proposed by the EPIs and ET are grouped and shown in Appendix M.	20/10/2021

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						Rectification have been reported by the Main Contractor according to the observation and recommendation from ET and EPIs on 8th, 17th, 27th September and 6th October 2021. During the 2nd joint site inspection, EPIs agreed the pilling works can be restarted. However, EPIs reminded that the 2nd pilling machine can only be operated until the 2nd WetSep is functioned properly and the effluent quality is acceptable. EPIs mentioned that follow-up inspection expected to be conducted in early or mid-October, focus on inspecting the wastewater treatment efficiency for pilling works, paving of the soil surface, mitigation measures for handling the surface run-off. EPIs also mentioned that surprise inspection may be conducted in the future. According to the AECOM, the pilling work was restarted on 30th September 2021. According to this incident, the Main Contractor was reminded by ET to analyze and review the efficiency of the wastewater treatment system according to the construction activities regularly. The Contractor should provide regular maintenance, water quality testing and related checklist for ET and IEC review during the site inspection. The Main Contractor and related Sub-Contractor was reminded by ET and AECOM that the discharge of effluent needs to fulfil the requirement stated in the Water Discharge License (No. WT00032446 – 2018). AECOM and ET requested the Main Contractor to update the Temporary Drainage Management Plan according to the latest work activities. ET also requested the Main Contractor to update the description of the wastewater mitigation measures inside the Environmental Management Plan (EMP) and Environmental Management Report (EMR) and strictly implement to prevent similar case happen in the future. A follow-up site inspection was conducted by the EPIs at Zone 5 south boundary on 26th October 2021. The EPIs reviewed the site condition, treatment efficiency of the temporary wastewater treatment facilities, mitigation measures to prevent muddy water	

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						generated from soil surface, discharge points and gullies condition. EPIs commented on the mitigation measure around the discharge point near WetSep TW-WS1. The bunding next to the manhole should be rectified to prevent the inflow of muddy water. EPIs reminded that mitigation measures (such as sandbags and bunding) should be provided for enclosing the area near the piling machine. It is for directing the muddy water into the temporary wastewater treatment system. EPIs also reminded regular maintenance of the temporary wastewater treatment system is needed to ensure the effluent's water quality fulfill the standard of the Water Discharge License.	
EPD ref.: RN25674-21	28/10/21	EPD	CCZJV	Noise	05/11/21	A complaint was received by the EPD Regional Office (North) on 28th October 2021. The complainant concerned about the night-time noise nuisance near Man Wo House, Wo Che Estate from 2:00 to 5:00 a.m. on 25^26th, 26^27th and 27^28th October 2021 (total 3 nights). The complaint was referred from EPD to (ET on 5th November 2021 at 3:35 p.m. The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Enclosure for General Night Works that was issued by the EPD. According to Main Contractor, the construction work activities were carried out during the permitted hours (00:00-05:00) on 25^26th and 27^28th October 2021 near Man Wo House (at Zone 4 and 5, NB and SB) and there was no night works on the 26^27th October 2021. The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic Arrangement (TTA) implementation, unloading of fill materials, loading and unloading of the lamppost, precast concrete blocks and generator and site clearance. The Main Contractor reported that no night-time construction work was carried out on 26^27th October 2021 at Zone 4 and 5. ET checked the Main Contractor has complied with CNP No.: GW-RN0600-21. The Main Contractor was reminded to strictly	16/11/2021

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was also be reminded to shut down the PMEs' engines when they are not in use. Moreover, only mobile phones and walkie talkies with headphones can be used for communication, and no whistles, horns and loudspeakers can be used during night work activities. The Main Contractor was reminded to pay attention to CNP conditions 3.d.1, 3.d.5, 3.d.13, 4.d.3 and 4.d.4 for using PMEs to carry out loading and unloading activities in the future.	
COM-2021-0257	05/11/21	1823	CCZJV	Noise	08/11/21	This complaint was received by 1823 (ref: CASE#3-6960147702) on 5th November 2021 at 02:05 a.m. The complainant, Mr Sung concerned about the night-time noise nuisance from concreting near Scenery Court and Tsing Sha Highway. The complaint was referred from AECOM to ET on 8th November 2021 at 9:34 a.m. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0642-21 Road Closure for Sheet Piles Removal and Road Re-construction Works that issued by the EPD. According to Main Contractor, the construction work activities were carried out during the permitted hours (23:00-05:00) on 4^5th November 2021 near Scenery Court and Hilton Plaza (Zone 1). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic Arrangement (TTA) implementation, preparation works for concreting, concreting, cleaning works after concreting and site clearance. ET conducted a regular night-time noise monitoring at all the monitoring stations between 11:00 p.m. to 03:00 a.m. on 4^5th November 2021 and at NMS1, NMS2, NMS3, NMS4, NMS5A,	23/11/2021

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						NMS6A and NMS7 in Zone 1 and 2 which were close to Scenery Court near Tsing Sha Highway. No exceedance case was found during the regular night-time noise impact monitoring measurement. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0642-21. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to shut down the PMEs' engines when they are not in use. Moreover, only mobile phones and walkie talkies with headphones can be used for communication, and no whistles, horns and loudspeakers can be used during night work activities. The Main Contractor was also be reminded to pay attention to CNP conditions 3.d.1, 3.d.3, 3.d.4 3.d.5, 3.d.7, 3.d.11, 3.d.13, 4.d.6 and 4.d.7 for using PMEs and carry out similar night-time construction work activities in the future.	
EPD ref.: RN25674-21	17/11/21	EPD	CCZJV	Noise	19/11/21	This complaint was received by the EPD Regional Office (North) on 17th November 2021. The complainant concerned about the night-time noise nuisance near Wai Wah Centre from 2:30 to 3:30 a.m. on 17th November 2021. The complaint was referred from EPD to ET on 19th November 2021 at 5:56 p.m. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0600-21 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 16^17th November 2021 near Wai Wah Centre (Zone 2). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic	08/12/2021

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						Arrangement (TTA) implementation, unloading and handling of asphalt during pavement, asphalt compaction, loading and unloading of materials and site clearance. ET conducted a regular night-time noise monitoring at all the monitoring stations between 11:00 p.m. to 03:00 a.m. on 18^19th November 2021 and at NMS1, NMS2, NMS3, NMS4, NMS5A, NMS6A and NMS7 at Zone 1 and 2 which were close to Wai Wah Centre. No exceedance case was found during the regular night-time noise impact monitoring measurement. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 12th November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27th October 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.	
COM-2021-0262	20/11/21	1823	CCZJV	Noise	23/11/21	This complaint was received by 1823 (ref: CASE#3-6981794553) on 20th November 2021 at 3:35 a.m. The complainant, Mr Sung concerned about the night-time noise nuisance from road surfacing works near Hilton Plaza. The complaint was referred from AECOM to ET on 23rd November 2021 at 1:56 p.m. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0600-21 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 19^20th November 2021 near Hilton Plaza (Zone 1 and 2). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic	08/12/2021

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						Arrangement (TTA) implementation, asphalt removal, unloading and handling of asphalt during pavement, asphalt compaction, loading and unloading of materials and site clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 12th November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27th October 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs.	
COM-2021-0263	26/11/21	1823	CCZJV	Noise	30/11/21	This complaint was received by 1823 (ref: CASE#3-6991122920) on 26th November 2021 at 11:31 a.m. The complainant, Mr Chan concerned about the night-time noise nuisance generated from road surfacing works at Tai Po Road and near Shing Mun Tunnel Road (Zone 1 and 2). The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works that issued by the EPD. The night-time construction works included TTA implementation, asphalt milling, mobilization in and out of construction site, asphalt paving, compaction of asphalt pavement, loading and unloading of fill materials, and site clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 19th November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27th October 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs.	17/12/2021
COM-2021-0264	24/11/21	1823	CCZJV	Noise	30/11/21	This complaint was received by 1823 (ref: CASE#3-6989137345) on 25th November 2021 at 30th November 2021 at 9:28 a.m. The complainant, Ms Sun concerned about the recent	23/12/2021

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						noise nuisance from the night-time construction work activities near Sha Tin Station. The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 23^24th November 2021 near Sha Tin Station (at Zone 2). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included Temporary Traffic TTA implementation, asphalt milling, asphalt paving, compaction of asphalt pavement, loading and unloading of materials, and site clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 19th November 2021 and Notice to Affected Residents – PN162 have been issued to nearby NSRs on 27th October 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.	
COM-2021-0265	01/12/21	1823	CCZJV	Noise	01/12/21	This complaint was received by 1823 (ref: CASE#3-6997727629) on 1st December 2021 at 11:50 a.m. The complainant concerned about the night-time noise nuisance generated near Sha Tin Station. The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 30th November ^ 1st December 2021 near Sha Tin Station (at Zone 2). The construction activities were carried out within the allowable location and within the site boundary listed	30/12/2021

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						in the CNP. The night-time construction works included TTA implementation, asphalt milling, asphalt paving, compaction of asphalt pavement, painting of road marking, loading and unloading of materials, and site clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 19th November 2021 and Notice to Affected Residents – PN162 and 165 have been issued to nearby NSRs on 27th October and 29th November 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.	
EPD ref.: RN29574-21	07/12/21	EPD	CCZJV	Noise	07/12/21	This complaint was received by the EPD Regional Office (North) on 7th December 2021. The complainant concerned about the night-time noise nuisance generated from the operation of PMEs near Lek Yuen Estate, Kwai Wo House on 7th December 2021 at 2:00-3:00 a.m. The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) on 6^7th December 2021 near Kwai Wo House (at Zone 3). The construction activities were carried out within the allowable location and within the site boundary listed in the CNP. The night-time construction works included TTA implementation, lifting of steel truss of overhead height restriction gantry, installation of overhead height restriction gantry, and site clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on	24/12/2021

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						19th November 2021 and Notice to Affected Residents – PN165 have been issued to nearby NSRs on 29th November 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.	
COM-2021-0272	16/12/21	1823	CCZJV	Noise	16/12/21	A complaint was received by 1823 (ref: CASE # 3-7020268390) on 16th December 2021 at 12:27 a.m. The complainant concerned about the night-time noise nuisance generated from the Tai Po Road (Sha Tin Section) construction site (near Wai Wah Centre, Block 3) in recent days. The construction work activities were allowed under the in-force CNP no.: GW-RN0600-21 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction work activities were carried out during the permitted hours (22:00-05:00) between 13th and 16th December 2021 (at Zone 2). The night-time construction works included TTA implementation, asphalt removal and cutting works, loading and unloading of materials, lifting steel plate and site clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0600-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 10th December 2021 and Notice to Affected Residents – PN165 have been issued to nearby NSRs on 29th November 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.	16/01/2022

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2021-0193 and COM-2021-0202	21/12/21	1823	CCZJV	Noise	23/12/21	Three complaints were received by 1823 from the same complainant (ref: CASE # 3-6727963845 via email) on 21st December 2021 at 8:35 a.m., 22nd December 2021 at 9:18 a.m. and 5:06 p.m. The complainant, Ms. So concerned about the recent day-time noise nuisance generated from day-time construction works from the Tai Po Road (Sha Tin Section) construction site (near Mei Wo House, Wo Che Estate). According to the Main Contractor, the construction works were carried out at day-time (08:00-18:00) between 15th and 22nd December 2021 near Mei Wo House (at Zone 5). The construction work activities included formwork erection, formwork removal, rebar fixing, and concreting works. ET carried out regular day-time noise monitoring on 20th and 21st December 2021 at NMS 16-20 and NMS 26, no exceedance case was found. All the noise monitoring results at the above-mentioned stations were lower than the noise limit of 75 dB(A) Leq (30 minutes) at the facade of dwellings and 70 dB(A) Leq (30 minutes) for school. To minimize the noise impact generated from day-time construction works, the Main Contractor reported that they have implemented an additional noise mitigation measure (with temporary noise barriers) for the Mei Wo House, NSR. During the ET weekly environmental inspection on 13th January 2022, the noise barriers were observed as properly installed. Most of the sight from the nearby NSRs for the noise works and PMEs were blocked by the implemented noise barrier. There is no particular observation about the noise impact generated from the construction activities during the site inspection. ET reminded the Main Contractor to ensure the additional noise barriers were applied properly next to the PMEs and noisy work. The contractor should minimize the noise impact generated from the daily construction works activities as much as possible.	09/02/2022

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2021-0275	29/12/21	1823	CCZJV	Noise	30/12/21	Two complaints were received by 1823 (ref: CASE # 3-7043757669 via voice mail) on 29th December 2021 at 12:07 a.m. and (ref: CASE # 3-7046572787 via email) on 29th December 2021 at 1:07 a.m. and 1:18 a.m. (repeat email). The complainant, Mr. Sung concerned about the night-time noise nuisance generated from the Tai Po Road (Sha Tin Section) construction site (near Hilton Plaza) on 23rd December 2021 at 12:30 a.m. and 29th December 2021 at 12:00 a.m. According to Main Contractor, there were night-time construction works carried out at Tai Po Road and near Hilton Plaza (Zone 1 and 2) on 22nd ^ 23rd and 28th ^ 29th December 2021. The works included TTA implementation, pavement breaking along existing profile barriers, excavation (handling of rubble), remove steel plate from the trench, pipe laying inside the trench, reinstate steel plate to cover trench, removal of rubble, plant demobilization, and site clearance on 22nd ^ 23rd December 2021. Moreover, TTA implementation, dismantling of access tower, noise barrier steel post delivery, plant mobilization, pavement breaking along existing profile barriers, erection of noise barrier steel post, removal of existing profile barriers, and site clearance were carried out on 28th ^ 29th December 2021. ET checked that the Main Contractor did not comply with the conditions listed in CNP No.: GW-RN0600-21 and GW-RN0916-21 during the construction work activities on 22nd ^ 23rd and 28th ^ 29th December 2021 with unauthorized PME being used on-site. Enhance measures and supervision was urged by ET to the Main Contractor to prevent similar incident from happening again. The Main Contractor reported that enhancement measures, included altering the works schedule, enhance supervision and control system are applied currently. The Main Contractor was reminded again by ET to strictly follow and fully comply with the requirement listed in the CNP. Only allowable PMEs listed in the CNP can be used to carry out construction works. Mitigation measures should also be applied	26/01/2022

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						according to CNP condition 3.d., 4.d and EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	
EPD ref.: RN1596-22	17/01/22	EPD	CCZJV	Noise and Dust	18/01/22	The complaint was received by EPD Regional Office (North) (ref: RN1596-22) on 17th January 2022. The complainant who lived near Mei Wo House, Wo Che Estate concerned about the night-time noise and dust nuisance generated from the nearby road. The construction work activities were allowed under the in-force CNP no.: GW-RN0916-21 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction work activities were carried out during the permitted hours (23:00-05:00) on 13^14th and 14^15th January 2022 (at Zone 5), and these construction activities were carried out within the allowable location listed in the CNP (Zone I). The night-time construction works on 13^14th January 2022 included TTA implementation, Loading and Unloading of rubble, Lifting Operation, and Site Clearance. For 14^15th January 2022, night-time works included TTA implementation, Loading and Unloading of rubble, Lifting operation, Plant mobilization, and Site Clearance. ET checked that the Main Contractor had complied with the conditions in CNP No.: GW-RN0916-21 about the allowable location, constriction time period, PMEs type and groups and mitigation measures. While prior notification was sent to EPD on 7th December 2021 and Notice to Affected Residents – PN162 and 165 have been issued to nearby NSRs on 28th December 2021. The Main Contractor was reminded to pay attention to CNP conditions and minimize the noise nuisance to the nearby NSRs when carry out similar night-time construction work activities in the future.	26/01/2022

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-0313	08/06/22	1823	CCZJV	Noise	15/06/22	A complaint was received via 1823 (ref: CASE#3-7246071575) on 8th June 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Wo Che Estate. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0185-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-05:00) on 7^8th June 2022. (At Zone 5). The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. The night-time construction works on 7^8th June 2022 included Temporary Traffic Arrangement (TTA) implementation, Erection of noise barrier panels and site clearance. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0185-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	06/07/22
COM-2022-320	01/08/22	1823	CCZJV	Dust & Noise	02/08/22	A complaint was received by 1823 (ref: CASE#3-7318357344) on 25th July 2022. The complainant who is concerned about the dust and noise nuisance generated from construction works near Shatin Plaza. According to the Main Contractor, there were construction activities near Shatin Plaza (Zone 3) on 25th July 2022. Thus, this complaint considered to be related to the project. According to ET investigation, no exceedance cases were found on ET regular day-time noise monitoring. The Main	17/08/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						Contractor was reminded to provide noise mitigation measures for the PMEs and noisy works to ensure the noise impact generated from the site is minimized. Consider the dust nuisance, no exceedance cases were found on ET regular air quality monitoring. The Main Contractor was reminded to provided dust suppression mitigation measures for the exposed area.	
COM-2022-326	05/08/22	1823	CCZJV	Noise	15/08/22	A complaint was received by 1823 (ref: CASE#3-7328538008) on 5th August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works along Tai Po Road between 3 to 4 a.m. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0476-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-04:45). The construction activities were carried out within the allowable location (Zone I, II & III) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0476-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 4th ^	16/09/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						5th August 2022, no exceedance case was found.	
COM-2022-327	05/08/22	1823	CCZJV	Noise	16/08/22	A complaint was received by 1823 (ref: CASE#3-7333891394) on 5th August 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Lucky Plaza. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0476-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours (23:00-04:45). The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0476-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 4th ^ 5th August 2022, no exceedance case was found.	16/09/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-346	28/10/22	1823	CCZJV	Noise	31/10/22	A complaint was received by the EPD (EPD ref.: RN23746-22) on 28th October 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near King Wo House. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0848-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 27th ^ 28th October 2022 at NMS 26, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)).	20/11/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-348	4/11/22	1823	CCZJV	Noise	4/11/22	A complaint was received by 1823 (CASE#3-7460684431) on 4th November 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Sha Tin Plaza. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0848-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	4/1/23
COM-2022-349	8/11/22	EPD	CCZJV	Noise	10/11/22	A complaint was received by the EPD (EPD ref.: RN23746-22) on 8th November 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near King Wo House. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0848-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the	20/11/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	
COM-2022-350	10/11/22	1823	CCZJV	Water	10/11/22	A complaint was received by the 1823 (CASE#3-7469563820) on 10th November 2022. The complainant who is concerned about muddy water discharged from the construction site to the carriageway near New Town Plaza. According to the Resident Engineer, site personnel discovered the freshwater hose pipe was burst at Site Access N09 at 1:30 p.m. Water spilt in the works area and overflow to the carriageway. The watermain valve was closed by the contractor at 1:45 p.m. and completed replaced the damaged hoes pipe at around 3:00 p.m. According to the Resident Engineer, no muddy water and mud were deposited on the carriageway around the site Access N09. ET checked that the case was a burst of freshwater hose and there was no untreated muddy water discharge was found from the construction site.	29/11/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-351, COM-2022-352	13/11/22	EPD	CCZJV	Noise	14/11/22	Two complaint was received by the EPD (EPD ref.: RN25243-22, RN25259-22) on 13th November 2022. The complainants who are concerned about the noise nuisance generated from night-time construction works near Tai Po Road next to Sha Tin MTR Station. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0848-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II & III) and within the site boundary listed in the CNP. ET carried out regular night-time noise monitoring on 10th ^ 11th November 2022 at NMS5A, NMS6A, NMS8, NMS9 and NMS24, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	6/12/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-353	17/11/22	1823	CCZJV	Noise	17/11/22	A complaint was received by 1823 (CASE#3-7478880132) on 17th November 2022. The complainants who are concerned about the noise nuisance generated from night-time construction works near Sha Tin Rural Committee Road. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0848-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET carried out regular night-time noise monitoring on 15th ^ 16th November 2022 at NMS8, NMS9, NMS24 and NMS25A, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	13/12/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-354	17/11/22	EPD	CCZJV	Noise	26/11/22	A complaint was received from EPD (EPD ref: RN25860-22) on 17th November 2022. The complainants who are concerned about the noise nuisance generated from night-time construction works near Wo Che Estate (between Man Wo House and Mei Wo House). The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0848-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. ET carried out regular night-time noise monitoring on 15th ^ 16th November 2022 at NMS19, and NMS20, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	4/1/23

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-356, COM-2022-357, COM-2022-358	29/11/22	1823	CCZJV	Noise	29/11/22	Three complaints were received by 1823 (CASE#3-7495426348, CASE#3-7495543588, CASE#3-7495866890) on 29th November 2022. The complainants who are concerned about the noise nuisance generated from night-time construction works near Tai Po Road. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0848-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. ET checked that the Main Contractor did not comply with the conditions 3.d.19 and 4.d.9 listed in CNP No.: GW-RN0848-22. To discuss the enhancement measures, enhance supervision and control system, an ad-hoc meeting was carried out on 13 December 2022 with the CEDD, ER, IEC, Contractor and ET. A presentation for enhancement measures and enhance supervision was carried out by the contractor on 16 December 2022 with the ER and ET. According to the Main Contractor, to prevent further submission delay, the notification will be notified to the EPD within two consecutive weeks on the Friday of previous working week.	4/1/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-359	14/12/22	1823	CCZJV	Noise	14/12/22	A complaint was received by 1823 (CASE#3-7516169709) on 14th December 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road next to the Shatin Plaza. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0848-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET carried out regular night-time noise monitoring on 13th ^ 14th December 2022 at NMS8, and NMS24, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	4/1/22

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2022-364	20/12/22	1823	CCZJV	Noise	20/12/22	A complaint was received by 1823 (CASE#3-7523479466) on 20th December 2022. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road next to the Citylink Plaza on 2 December 2022 at 2:00 a.m. The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0848-22 Road Closure for General Night Works that issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone II) and within the site boundary listed in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0848-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	16/02/23

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-376	18/01/23	1823	CCZJV	Noise	18/1/23	A complaint was received by 1823 (CASE#3-7559583506) on 18th January 2023. The complainant who is concerned about the noise nuisance generated from day time construction works near Tai Po Road. The complainant is concerned about the noise nuisance generated from the day-time construction works activities near Tai Po Road at Zone 5 on 18th January 2023 at 7:00 a.m. to 8:00 a.m. According to Main Contractor and AECOM's information, there was no construction work undertaken near the concerned area from 7:00 a.m. to 8:00 a.m. ET checked that the complaint received on 18th January 2023 is non-project related.	16/2/23

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-382	31/01/23	EPD	CCZJV	Noise	1/2/23	A complaint was received from the EPD (EPD ref.: RN2643-23) on 2nd February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road near the Fo Tan Road from 1:00 a.m. to 3:00 a.m. on 31st January 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to unload the material at a lower level into the dump truck to ensure the noise generated is as low as possible.	16/2/23

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-383	01/02/23	EPD	CCZJV	Noise	1/2/23	A complaint was received from EPD (EPD ref.: RN2721-23) on 1st February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Wo Shun House and Fung Wo Estate from 12:00 a.m. to 2:00 a.m. on 1st February 2023. According to Main Contractor, the night-time construction works included plant mobilization, loading and unloading construction material and loading and unloading C&D waste material were carried out between 31st January and 1st February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 31st January ^ 1st February 2023 at NMS26, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). The Main Contractor was reminded to unload the material at a lower level into the dump truck to ensure the noise generated is as low as possible.	16/2/23

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-384	6/2/23	1823	CCZJV	Wastewater	6/2/23	A complaint was received by the 1823 (CASE#3-7578244130) on 6th February 2023. The complainant who is concerned about wastewater discharged from the construction site to the Tai Po Rad carriageway on 4th February 2023. According to the Main Contractor, the water was from emptying the water barriers and flowed outside the site without washing dirt and mud. ET checked that no untreated wastewater was discharge to the carriageway. The main contractor is reminded to provide more training to the frontline staff to ensure no more water will be direct discharge from the construction site. The main contractor is reminded that surface run-off should be prevented from directly entering the sensitive receivers during the construction works. The main contractor is reminded that the wastewater generated on-site should be collected and treated to meet the requirements of the discharge license before being discharged.	27/2/23

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-385	14/2/23	1823	CCZJV	Noise	14/2/23	A complaint was received by 1823 (CASE#3-7591662478) on 14th February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Wo Che Estate. According to the Main Contractor, the night-time construction works included TTA implementation, loading and unloading, pouring non-fine concrete and asphalt paving were carried out between 13th and 14th February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. According to AECOM, the acoustic barrier was not fully used during the whole process of road paving. The Main Contractor was reminded to use the acoustic barrier for blocking the power generating part of the PME to ensure the noise can be minimized.	3/3/23

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-386	20/2/23	Contract Hotline Phone Call	CCZJV	Noise	21/2/23	A complaint was received by Contract Hotline Phone Call (COM-2023-0386) on 20th February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Wo Che Street between 17th and 18th February 2023 from 0:00 to 04:00 a.m. According to the Main Contractor, the night-time construction works included TTA implementation, loading and unloading and site clearance were carried out between 17th and 18th February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to be slow and careful when carrying out loading and unloading to avoid remarkable noise nuisance.	17/3/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-387	24/2/23	1823	CCZJV	Noise	25/2/23	A complaint was received by 1823 (CASE#3-7605775385) on 24th February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Wo Che Estate. According to the Main Contractor, the night-time construction works included TTA implementation, loading and unloading, pouring non-fine concrete and asphalt paving were carried out between 20th and 24th February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 23rd ^ 24th February 2023 at NMS19, and NMS20, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)).	17/3/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-388	25/2/23	1823	CCZJV	Noise	25/2/23	A complaint was received by 1823 (CASE#3-7608102288) on 25th February 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road on 25th February 2023 from 4 a.m. to 5 a.m. According to the Main Contractor, the night-time construction works included plant mobilization and site clearance were carried out on 25th February 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	17/3/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-392 and 393	2/3/2023	CEDD	CCZJV	Noise	3/3/2023	Two complaints were received from CEDD (COM-2023-392 and 393) on 2nd March 2023. The complainants are concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road next to Man Wo House. According to the Main Contractor, the night-time construction works included TTA implementation, loading and unloading, noise barrier installation, asphalt milling, asphalt paving and site clearance were carried out on 2nd March 2023. According to the Main Contractor, the road miller, asphalt paver and road roller were used behind acoustic barriers when road paving works was carrying out. Also, the internal sound absorbing lining was installed for those engine compartments. According to the Main Contractor, the soft padding material was padded on the ground when loading and unloading the steel rebars. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and	17/3/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-394	9/3/2023	EPD	CCZJV	Noise	10/3/2023	A complaint was received from EPD (EPD ref.: RN6366-23) on 9th March 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road from 1 a.m. to 4 a.m. According to the Main Contractor, the night-time construction works included TTA implementation and loading and unloading were carried out on 9th March 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to be slow and careful when carrying out loading and unloading to avoid remarkable noise nuisance. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	17/3/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-395	14/3/2023	EPD	CCZJV	Noise	15/3/2023	A complaint was received from EPD (EPD ref.: RN6778-23) on 14th March 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road on 14th March 2023 from 2 a.m. to 3 a.m. According to the Main Contractor, the night-time construction works included loading and unloading were carried out on 14th March 2023 from 2 a.m. to 3 a.m. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to be slow and careful when carrying out loading and unloading to avoid remarkable noise nuisance. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	24/3/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-402	18/3/2023	Contract Hotline	CCZJV	Noise	20/3/2023	A complaint was received by contract hotline (COM-2023-402) on 18th March 2023. The complainant is concerned about the noise nuisance generated by placing traffic cones on Tai Po Road during night-time construction activities on 18th March 2023. According to the Main Contractor, all workers were briefed before the works started. The workers were reminded the traffic cones must be put on the ground, rather than throwing. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to place the traffic cones slowly and carefully to minimize the noise nuisance generated. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-403	18/3/2023	1823	CCZJV	Noise	20/3/2023	Two complaints were received by 1823 (CASE#3-7637259453 & #3-7637259880) on 18th March 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Tai Po Road on 18th March 2023. According to the Main Contractor, no Power Mechanical Equipment was included in the relevant complainant cases on 18th March 2023. Referring to the complainant's video, the noise was generated when the frontline workers threw the materials from a height to the ground. In addition, the contractor's mitigation measure is not enough to minimize the noise generated. The Main Contractor was reminded to provide more training for frontline workers to ensure that they work with minimum noise. According to the Main Contractor, a night-work foreman was arranged to keep close monitoring the noisy work and ensure the compliance of CNP at night. The Main Contractor was reminded to unload all the construction materials slowly and carefully to minimize the noise generated. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1176-22. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	18/4/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	
COM-2023-404	18/3/2023	1823	CCZJV	Wastewater	20/3/2023	A complaint was received by 1823 (CASE#3-7637522160) on 18th March 2023. The complainant is concerned about the wastewater leaking from the STRCR to the below carriageway. The complainant who is concerned about the wastewater leaking into the carriageway surface from STRCR on 18th March 2023. ET checked that the complaint was considered to be related to the project. According to the Main Contractor, the dripping was caused by the concrete curing work above the STRCR structure. According to the Main Contractor, the drip source reparation work was conducted on 20th March and completed on 26th March 2023. No more drip source was observed. During the site inspection, ET checked the main contractor had used the tarpaulin sheet as the mitigation measure of the concrete curing work. The Main Contractor was reminded to periodic inspection the site situation to ensure the mitigations are effective. The Main Contractor was reminded that the run-off should	10/5/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						be prevented from directly entering the sensitive receivers during the construction works. The Main Contractor was reminded that all wastewater generated on-site should be collected and treated to meet the requirements of the discharge license before being discharged.	

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-406	23/3/2023	1823	CCZJV	Wastewater	24/3/2023	A complaint was received by 1823 (CASE#3-7616071795) on 23rd March 2023. The complainant is concerned about the wastewater leaking to the drainage system. The complainant who is concerned the wastewater discharged to the drainage system on the carriageway road. ET checked that the complaint was considered to be related to the project. According to the Main Contractor, the water was the result of the excessive curing water seeped underneath the STRCR flyover. The dripping ceased shortly. Due to the small quantity and short time, the dripping did not constitute a continuous flow. According to the Main Contractor, the drip source was repaired on 26 March 2023. No more drip source was observed. During the site inspection, ET checked the main contractor had used the tarpaulin sheet as the mitigation measure of the concrete curing work. ET checked no wastewater was discharged at the concerned area after the reparation work. The Main Contractor was reminded that the run-off should be prevented from directly entering the sensitive receivers during the construction works. The Main Contractor was reminded that all wastewater generated on-site should be collected and treated to meet the requirements of the discharge license before being discharged.	10/5/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-411	18/4/2023	1823	CCZJV	Noise	21/4/2023	A complaint was received by 1823 (CASE#3-7677865059) on 18th April 2023.The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0292-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction work should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	26/4/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-412	28/4/2023	EPD	CCZJV	Noise	28/4/2023	The construction work activities were allowed under the in-force Construction Noise Permit (CNP) no.: GW-RN0292-23 Road Closure for General Night Works issued by the EPD. According to the Main Contractor, the construction works activities were carried out during the permitted hours. The construction activities were carried out within the allowable location (Zone I) and within the site boundary listed in the CNP. According to the Main Contractor, the night-time construction works included TTA implementation, Loading & unloading, Asphalt Milling, Asphalt Paving and Concreting were carried out between 20th and 25th April 2023. According to the Main Contractor, no construction works were carried out between 23rd and 24th April 2023. According to AECOM information, only housekeeping was carried out on 23rd ^ 24th April 2023. No major construction work was recorded on Sunday. The Environmental Officer reported that a prior notification was sent to EPD on 13th April 2023 at 02:08 p.m. and 20th April 2023 at 01:48 p.m. While “Notice to Affected Residents – PN240” was sent to the Sha Tin District Council, Local Residents, Private Development and Others on 29th March 2023. ET carried out regular night-time noise monitoring on 20th ^ 21st April 2023 at NMS16, NMS18, NMS19, NMS20 and NMS26, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0292-23. The	8/5/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction work should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-502	12/5/2023	1823	CCZJV	Noise	19/5/2023	A complaint was received by 1823 (CASE#3-7709231017) on 12th May 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. ET carried out regular night-time noise monitoring on 9th ^ 10th May 2023 at NMS9 and NMS13, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0292-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	9/6/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-503	19/5/2023	1823	CCZJV	Noise	22/5/2023	A complaint was received by 1823 (CASE#3-7722776885) on 19th May 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. According to the Main Contractor, additional temporary noise barriers will be provided as an enhancement noise mitigation measure. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0514-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6 and 3.d.7 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	9/6/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-504	14/5/2023	EPD	CCZJV	Noise	23/5/2023	A complaint was received from EPD (EPD ref.: RN12170-23) on 14th May 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Lek Yuen Estate after 7:00 p.m. According to the Main Contractor and AECOM information, no construction works were carried out between 19:00 and 22:00. Also, no construction works were carried out at Zone 3 on 12th ^13th May 2023. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0292-23 and CNP no. GW-RN0227-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	5/6/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
COM-2023-510	30/6/2023	1823	CCZJV	Noise	30/6/2023	A complaint was received by 1823 (CASE#3-7780620261) on 30th June 2023. The complainant is concerned about the noise nuisance generated by the night-time construction works activities near Wai Wah Centre. According to the Main Contractor, all crane lorry and dump truck drivers were briefed to load all material at the lower level to minimize noise generation. ET carried out regular night-time noise monitoring on 29th ^ 30th June 2023 at NMS5A, NMS6A and NMS8, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0627-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	4/7/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE# 3-7782744454	3/7/2023	1823	CCZJV	Noise	3/7/2023	A complaint was received by 1823 (CASE# 3-7782744454) on 3rd July 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Jockey Club Ti-I College. Due to the distance of the concerned area is far from the construction site, the complaint was considered to be non-project related. ET carried out regular night-time noise monitoring on 29th ^ 30th June 2023 at NMS19, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0627-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	12/7/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
EPD ref. RN14897-23	7/7/2023	EPD	CCZJV	Noise	7/7/2023	A complaint was received by EPD (EPD ref. RN14897-23) on 7th July 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Scenery Court. According to the Main Contractor, no construction activities were carried out near Scenery Court. The nearest activities were carried out near Wai Wah Centre. Due to the certain distance between the working area and the concerned area, this complaint was considered to be non-project related. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0292-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	12/7/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
EPD ref.: RN16920-23	19/7/2023	EPD	CCZJV	Muddy Water	19/7/2023	A complaint was received by EPD (EPD ref.: RN16920-23) on 19th July 2023. The complainant who is concerned about the untreated muddy water discharged from the construction site to the Shing Mun River. According to the government's info-map, the drainage network of the concerned water outfall is distributed along the Wo Che Street and construction site area Zone 4 is also covered in the network. According to the Main Contractor, all the work activities were operated with suitable water treatment facilities and no water discharged between 11th July 2023 14th July 2023. According to AECOM photo records on 12th July 2023, a small amount of muddy water leakage through the sandbag bunding into the manhole at Zone 4 was observed. However, the leakage is not sufficient to form the muddy water discharge at Shing Mun River. The Main Contractor was reminded to periodic inspection the site situation to ensure all the mitigation measures are effective. The Main Contractor was reminded that the run-off should be prevented from directly entering the sensitive receivers during the construction works. The Main Contractor was reminded that all wastewater generated on-site should be collected and treated to meet the requirements of the discharge license before being discharged. ET checked that there is no sufficient evidence to prove that the complaint is related to the project. complaint was received by 1823 (CASE#3-7677865059) on 26th July 2023.	26/7/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7677865059	26/7/2023	1823	CCZJV	Noise	26/7/2023	A complaint was received by 1823 (CASE#3-7677865059) on 26th July 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Sui Wo Court. According to the Main Contractor, the hand-held breaker was used inside the acoustic enclosure. According to the Main Contractor and AECOM, acoustic barriers were set up in the direction of Wo Che Estate during the construction activities. However, due to the safety reason, the noise barriers cannot set up in the direction of Sui Wo Court. According to the Main Contractor, refreshment training will be provided to the frontline supervisory staff about the CNP requirements to ensure all the construction activities fulfil all the conditions in the CNP. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0627-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7	1/8/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7875615750	31/8/2023	1823	CCZJV	Muddy Water	4/9/2023	A complaint was received by 1823 (CASE#3-7875615750) on 31st August 2023. The complainant who is concerned about the muddy water flooded out of the construction site. According to the Main Contractor, the muddy water overflow was the result of the frequent rainstorms that occurred. ET checked that the complaint was considered to be related to the project. The Main Contractor was reminded to provide a site channel, bunds or sandbags as a direct runoff into the sediment traps to prevent muddy water directly discharged to the public area. The Main Contractor was reminded to periodic inspections of the site to determine compliance with the functioning of onsite surface water collection channels and sediment traps. The Main Contractor was reminded to review all the capacity of sedimentation tanks on the site to see if they are enough to handle the heavy rain situation. The Main Contractor was reminded that all wastewater generated on-site should be collected and treated to meet the requirements of the discharge license before being discharged.	25/9/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7878953633	4/9/2023	1823	CCZJV	Muddy Water	4/9/2023	A complaint was received by 1823 (CASE#3-7878953633) on 4th September 2023. The complainant is concerned about the muddy water flowing out of the construction site near Tai Po Road. According to the Main Contractor, the muddy water overflow was the result of the frequent rainstorms that occurred. ET checked that the complaint was considered to be related to the project. The Main Contractor was reminded to provide a site channel, bunds or sandbags as a direct runoff into the sediment traps to prevent muddy water directly discharged to the public area. The Main Contractor was reminded to periodic inspections of the site to determine compliance with the functioning of onsite surface water collection channels and sediment traps. The Main Contractor was reminded to review all the capacity of sedimentation tanks on the site to see if they are enough to handle the heavy rain situation. The Main Contractor was reminded that all wastewater generated on-site should be collected and treated to meet the requirements of the discharge license before being discharged.	27/9/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7905970144	18/9/2023	1823	CCZJV	Noise	18/9/2023	A complaint was received by 1823 (CASE#3-7905970144) on 18th September 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. According to the video provided by the complainant, an excavator was moving at Zone 3. No movable acoustic barriers were set up next to the excavator is observed in the video. According to the Main Contractor, the carriageways were not isolated at that moment. For safety reasons, the acoustic barriers could not be used on the carriageways. In addition, a safety distance must be maintained for the excavator during mobilization. There also cannot be provided acoustic barriers on the other side of the excavator. According to the Main Contractor, the movable acoustic barriers were provided when the excavator conducted loading works. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0627-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and	26/10/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7940848250	13/10/2023	1823	CCZJV	Noise	16/10/2023	• A complaint was received by 1823 (CASE#3-7940848250) on 13th October 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the Main Contractor, an acoustic enclosure was used during the asphalt-breaking activity. Also, acoustic noise barriers were provided for the asphalt paver and roller. • ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0894-23 and GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. • The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. • The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	26/10/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7940837468	13/10/2023	1823	CCZJV	Noise	18/10/2023	• A complaint was received by 1823 (CASE#3-7940837468) on 13th October 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the Main Contractor, an acoustic enclosure was used during the asphalt-breaking activity. Also, acoustic noise barriers were provided for the asphalt paver and roller. • ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0894-23 and GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. • The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. • The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	3/11/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7947581414	18/10/2023	1823	CCZJV	Noise	20/10/2023	• A complaint was received by 1823 (CASE#3-7947581414) on 18th October 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the Main Contractor, asphalt paver was used behind the acoustic barriers when road paving works was carrying out. Also, internal sound absorbing lining was installed for the asphalt paver and road roller. • ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. • The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. • The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	3/11/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7954061301	20/10/2023	1823	CCZJV	Noise	24/10/2023	• A complaint was received by 1823 (CASE#3-7954061301) on 20th October 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the complainant's video, no acoustic barrier was set up next to the excavator which did not comply with the requirement listed in the CNP. • ET checked that the Main Contractor did not fully comply with the conditions listed in CNP No.: GW-RN0894-23. • To discuss the enhancement measures, enhance supervision and control system, an ad-hoc meeting was held on 31st October 2022 with the CEDD, ER, IEC, Contractor, and ET. • According to the Main Contractor, to prevent further non-complying with the CNP, a CNP briefing was provided to the frontline workers before nighttime work to ensure all requirements listed in the CNP are implemented. • According to the Main Contractor, additional temporary noise barriers were provided on the noise barrier pole to minimize the noise nuisance generated from the site. • The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible	14/11/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						to minimize the noise nuisance to the sensitive receivers. • The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. • The Main Contractor was also be reminded to pay attention to CNP conditions 3a, 3.d.1, 3.d.5, 3.d.6, 3.d.7 and 3.d.14 for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
EPD ref.: RN24522-23	13/10/2023	EPD	CCZJV	Noise	27/10/2023	• A complaint was received by EPD (EPD ref.: RN24522-23) on 13th October 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the Main Contractor, an acoustic enclosure was used during the asphalt-breaking activity. Also, acoustic noise barriers were provided for the asphalt paver and roller. • ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. • ET carried out regular night-time noise monitoring on 10th ^ 11th October 2023 at NMS8, NMS13, NMS24 and NMS25A, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)).	3/11/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7965710201	25/10/2023	1823	CCZJV	Noise	1/11/2023	• A complaint was received by 1823 (CASE#3-7965710201) on 1st November 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the Main Contractor, the nighttime construction works activities between 25th October and 1st November 2023 at Zone 3 and 4 included TTA implementation, soil excavation, demolition of concrete slab and road reinstatement. • According to the Main Contractor, acoustic barriers were used during soil excavation, asphalt milling, paving and demolition of concrete slab. • ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	20/12/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE: 3-7971500925	5/11/2023	1823	CCZJV	Noise	5/11/2023	• A complaint was received by 1823 (CASE: 3-7971500925) on 5th November 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the Main Contractor, the nighttime construction works activities between 4th and 5th November 2023 at Zone 5 included TTA implementation and concreting. • According to the Main Contractor, acoustic barriers were used during concreting work. • ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	20/12/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
EPD ref.: RN26643-23	8/11/2023	EPD	CCZJV	Noise	8/11/2023	• A complaint was received by EPD (EPD ref.: RN26643-23) on 8th November 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the Main Contractor, the nighttime construction works activities between 7th and 8th November 2023 at Zone 5 included Sheet pilling, TTA implementation, material loading and unloading and concreting. • According to the Main Contractor, acoustic barriers were used during sheet pilling and concreting activity. • ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1126-23 and CNP No.: GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	15/11/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
1823 Case: 3-7979040785	9/11/2023	1823	CCZJV	Noise	9/11/2023	• A complaint was received by 1823 (1823 Case: 3-7979040785) on 9th November 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the Main Contractor, the nighttime construction works activities on 9th November 2023 at Zone 3 included rebar fixing and cutting of sheet piles. • According to the Main Contractor, the workers were briefed before they started the works. Briefing details included handing steel rebar or metal materials must be lightly to reduce noise as practical as possible. • The Main Contractor is reminded to provided acoustic barriers for nighttime work to minimize the noise nuisance as much as possible. • ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN1126-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	20/12/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
EPD ref.: RN26820-23	20/10/2023	1823	CCZJV	Noise	9/11/2023	• A complaint was received by EPD (EPD ref.: RN26820-23) on 9th November 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road on 20th October 2023. • According to the complainant's video from 1823 (CASE#3-7954061301), no acoustic barrier was set up next to the excavator which did not comply with the requirement listed in the CNP. • According to the Main Contractor, the nighttime construction works activities on 20th October 2023 at Zone 5 included Sheet Piling. • ET checked that the Main Contractor did not fully comply with the conditions listed in CNP No.: GW-RN0894-23. • According to the Main Contractor, to prevent further non-complying with the CNP, a CNP briefing was provided to the frontline workers before nighttime work to ensure all requirements listed in the CNP are implemented.	17/11/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE: 3-7979906619	7/11/2023	1823	CCZJV	Noise	16/11/2023	• A complaint was received by 1823 (CASE: 3-7979906619) on 16th November 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road on 7th November 2023. • According to the complainant's video, the excavator was carrying out sheet piling work with a vibratory pile driving hammer on 7th November 2023. An acoustic barrier was set up near the excavator, but the barrier did not effectively screen the excavator and the piling area. • ET checked that the Main Contractor did not fully comply with the conditions listed in CNP No.: GW-RN1126-23. • According to the Main Contractor, sheet pilling works would be rescheduled to be conducted on daytime.	12/11/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE: 3-7979872320	9/11/2023	1823	CCZJV	Noise	20/11/2023	• A complaint was received by 1823 (CASE: 3-7979872320) on 20th November 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. • According to the complainant's video, the excavator was carrying out sheet piling work on 9th November 2023. An acoustic barrier was screened in front of the pilling work area. • As the contractor did not provide adequate noise barriers to shield the excavator, it failed to effectively block the visible from noise sensitive receiver. • ET checked that the Main Contractor did not fully comply with the conditions listed in CNP No.: GW-RN1126-23.	12/11/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-7956862047	25/10/2023	1823	CCZJV	Noise	30/11/2023	• A complaint was received by 1823 (CASE#3-7956862047) on 30th November 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road on 25 October 2023. • According to the Main Contractor, the nighttime construction works activities between 25th October and at Zone 3 and 4 included TTA implementation, soil excavation, demolition of concrete slab and road reinstatement. • ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	20/12/2023

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-8042743395	28/12/2023	1823	CCZJV	Noise	4/1/2024	• A complaint was received by 1823 (CASE#3-8042743395) on 29th December 2023. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. According to the noise complaint, the complainant is concerned the noise nuisance on 27th ^28th December 2023. According to the Main Contractor, the nighttime construction works activities between 28th and 29th December 2023 at Zone 4 included road reinstatement. According to the Main Contractor, acoustic barriers were used during road reinstatement. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	17/1/2024

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-804373317	2/1/2024	1823	CCZJV	Noise	2/1/2024	• One complaint was received by 1823 (CASE#3-804373317) on 2nd January 2024. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. According to the noise complaint, the complainant is concerned the noise nuisance on 27th ^28th December 2023. According to the Main Contractor, the nighttime construction works activities between 28th and 29th December 2023 at Zone 4 included road reinstatement. According to the Main Contractor, acoustic barriers were used during road reinstatement. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	17/1/2024

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-8027848066	2/1/2024	1823	CCZJV	Noise	2/1/2024	• One complaint was received by 1823 (CASE#3-8027848066) on 2nd January 2024. The complaint who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. According to the noise complaint, the complainant is concerned the noise nuisance on 28th ^ 29th December 2023. According to the Main Contractor, the nighttime construction works activities between 28th and 29th December 2023 at Zone 4 included road reinstatement. According to the Main Contractor, acoustic barriers were used during road reinstatement. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0970-23. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers.	17/1/2024

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-8115454475	27/2/2024	1823	CCZJV	Noise	28/2/2024	• One complaint was received by 1823 (CASE#3-8115454475) on 27th February 2024. The complainant who is concerned about the noise nuisance generated from night-time construction works near Sha Tin Rural Committee Road. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0079-24. The Main Contractor was reminded to strictly follow and fully comply with the requirement listed in the CNP and the mitigation measures stipulated in the EM&A Manual when carrying out construction activities during the restricted hour. All construction works should be carried out as quickly as possible to minimize the noise nuisance to the sensitive receivers. ET carried out regular night-time noise monitoring on 22nd ^ 23rd February 2024 at NMS8 and NMS24, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also reminded to pay attention to CNP conditions 3a and 3.d for using PMEs and need to provide related noise	11/4/2024

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
						mitigation measures when carrying out similar night-time construction work activities in the future.	

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
EPD ref. RN6229-24	4/3/2024	EPD	CCZJV	Noise	5/3/2024	• A complaint was received by EPD (EPD ref. RN6229-24) on 4th March 2024. The complainant who is concerned about the noise nuisance generated from night-time construction works near New Town Plaza from 25th February 2024 to 1st March 2024. ET checked that the Main Contractor submitted the advance notification to EPD (ref.: GW-RN0172-24-002) was less than 48 hours. The Main Contractor was suspected of violating the conditions of CNP no.: GW-RN0172- 24. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0079-24 but had not fully complied with the conditions listed in CNP No.: GW-RN0172-24. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a and 3.d for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	22/3/2024

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-8115454475	10/3/2024	1823	CCZJV	Noise	10/3/2024	• A further complaint was received via 1823 (CASE#3-8115454475) on 10th March 2024. The complainant is concerned about the noise nuisance generated from night-time construction works near Sha Tin Rural Committee Road on 9th ^ 10th March 2024. The contractor failed to implement noise mitigation measures that could obstruct the line of sight from the road roller to the sensitive receiver. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0115-24, but not fully complied with the conditions listed in CNP No.: GW-RN0172-24. The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a and 3.d for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	11/4/2024

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
EPD ref.: RN7536-24	15/3/2024	EPD	CCZJV	Noise	15/3/2024	• A complaint was received by EPD (EPD ref.: RN7536-24) on 15th March 2024. The complainant is concerned about the noise nuisance generated from night-time construction works near Wo Che Estate. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0172-24. ET carried out regular night-time noise monitoring on 12th ^ 13th March 2024 at NMS13, NMS19 and NMS26, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3a and 3.d for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	27/3/2024

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-8138907298	10/4/2024	1823	CCZJV	Noise	17/4/2024	• A complaint was received via 1823 (CASE#3-8138907298) on 10th April 2024. The complainant who is concerned about the noise nuisance generated from night-time construction works near Tai Po Road. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0236-24. ET carried out regular night-time noise monitoring on 9th ^ 10th April 2024 at NMS13 and NMS26, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3.a and 3.d for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	13/5/2024

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

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Investigation summary & Conclusion	Date of Reply
CASE#3-8179141354	16/4/2024	1823	CCZJV	Noise	24/4/2024	• A complaint was received via 1823 (CASE#3-8179141354) on 16th April 2024. The complainant is concerned about the nuisance generated by breaking works near Wo Che Estate. ET checked that the Main Contractor had complied with the conditions listed in CNP No.: GW-RN0236-24. ET carried out regular night-time noise monitoring on 5th ^ 6th April 2024 and 9th ^ 10th April 2024 at NMS19 and NMS20, no exceedance case was found. All the noise monitoring results at the above-mentioned station were lower than the limit level (55 dB(A)). The Main Contractor was reminded to use the allowable PMEs listed in CNP condition 3.d for performing night-time construction works. Mitigation measures need to be applied according to the requirement in conditions 3.d and 4.d. The Main Contractor was also be reminded to pay attention to CNP conditions 3.a and 3.d for using PMEs and need to provide related noise mitigation measures when carrying out similar night-time construction work activities in the future.	9/5/2024

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

Cumulative Statistics on Complaints

Environmental Parameters	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project-to-Date
Air	7	0	7
Noise	100	2	102
Water	10	0	10
Waste	0	0	0
Total	**117***	**2**	**119***

*The 1st complaint in March 2021, Jan 2022 and July 2022 were included both the air and noise parameters, hence the total no. of complaints is deducted by 2.

Cumulative Statistics on Notification of Summons and Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Notification of Summons and Prosecutions This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	1	0	1
Water	0	0	0
Waste	0	0	0
Total	**1**	**0**	**1**

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre,
5 Lok Yi Street, Tai Lam,
Tuen Mun, N.T.,
Hong Kong.

Tel : +852 2450 8233
Fax : +852 2450 6138
E-mail : matlab@fugro.com
Website : www.fugro.com

Appendix M

Summary of Site Audit in the Reporting Month

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

Summary of Site Audit in the Reporting Month

Parameter	Date	Observations and Reminders	Follow-up Action Taken
Air Quality	No specific observation was identified in the reporting month.		
Noise	No specific observation was identified in the reporting month.		
Water Quality	5/4/2024	Observation 2: Wheels washing facility should be provided at main entrance. (Zone 3, near bus stop)	Washing facility was provided and haul road was hard paved.
	11/4/2024	Observation 2: Sandbags and tarpaulin sheeting should be provided along the water barriers. (Zone 3, S20)	Sandbags and tarpaulin sheets were provided.
	15/4/2024	Observation 1: Leakage of muddy water outside site boundary should be cleared immediately. Sandbags and tarpaulin should be used to prevent muddy water leakage. (Zone 3, S20)	Sandbags and tarpaulin sheets were provided.
	25/4/2024	Observation 2: Reagent should be refilled for waste water treatment tank. (Zone 3)	Water treatment chemical was refilled.
	25/4/2024	Reminder: Contractor was reminded to ensure water go through sedimentation before discharged from sedimentation tank. (Zone 3, near bus terminus)	N/A
Chemical and Waste Management	5/4/2024	Observation 3: General refuse should be cleared regularly. (Zone 3, SB)	Waste was cleared.
	11/4/2024	Observation 3: General refuse should be cleared regularly or placed in an enclosed bin. (Zone 3, SB)	Waste was cleared.
Land Contamination	5/4/2024	Observation 1: Drip tray should be provided for chemical containers. (Zone 3, SB+CM)	Chemical containers were removed.
	11/4/2024	Observation 1: The rock breaker hammer should be placed on a tarpaulin sheet. (Zone 3)	Hydraulic breakers were removed.
	15/4/2024	Observation 2: Drip tray should be provided for chemical containers. (Zone 3, near bus terminus)	Chemical containers were removed.
	25/4/2024	Observation 1: Drip tray should be provided for chemical containers. (Zone 3)	Chemical containers were removed.
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	No specific observation was identified in the reporting month.		