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Report No.: 0064/18/ED/0557A

MONTHLY EM&A REPORT

January 2021

Client : Civil Engineering and Development

Department, HKSAR

Contract No. : NDO 03/2018

Contract Name: Road Widening and Retrofitting Noise Barriers

on Tai Po Road (Sha Tin Section)

Report No. : 0064/18/ED/0557A

Prepared by : Jimmy Lui

Reviewed by : Cyrus Lai

Certified by :

David Hung

Environmental Team Leader Fugro Technical Services Limited



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



Our ref: PL-202102032

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

Attention: Miss FUNG Cannifer

17 February 2021

Dear Miss Fung,

NE/2017/05

Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) Monthly EM&A Report for January 2021

I refer to the email of the ET regarding to the captioned Monthly EM&A Report with report No. 0064/18/ED/0557A, we 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)

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EXECUTIVE SUMMARY

- i. The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the Project and implement the EM&A works.
- ii. This Monthly EM&A report presents the environmental monitoring and audit works for the period between 1 January 2021 and 31 January 2021. 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 |
|--|--|---|---|---|
| Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities diversion Mini pile works Noise barrier foundation works Trial pits excavation | Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities diversion Noise barrier foundation works Trial pits excavation | Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities detections Underground utilities diversion Soldier pile works Pier construction works Bored pile works Bored pile works Sign Gantry footing works Noise barrier foundation works Construction of Lagging wall and retaining wall Demolition of existing parapet Pre-drilling works Demolition works for existing central median Relocation of traffic light | Underground utilities detections Underground utilities diversion Demolition works for existing central median Foundation works for Footbridge NF66 and NF40 Mini Pile works Temporary road and site access construction works | Trial pits excavation Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities detections Underground utilities diversion Noise Barrier Foundation Works Soil replacement works on slopes Mini Pile works Construction for temporary haul road and site access Preparation works for lane shifting |

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.

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v. Regular night time noise monitoring was carried out on 7, 14, 21 and 28 January 2021 respectively and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.

Complaint, Notification of Summons and Successful Prosecution

vi. No complaint cases was received during the reporting period.

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.

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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**.

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- 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 26th 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 1st January 2021 and 31st January 2021.

1.2 Project Organization

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

1.2.3

Table 1.1 Contact Information of Key Personnel

| Tuble 1.1 Contact information of Rey 1 croomics | | | | | |
|---|---|-------------------|-----------|--|--|
| Party | Position | Name | Telephone | | |
| Project Proponent (CEDD) | Senior Engineer | Ms. Cannifer Fung | 3152 3446 | | |
| 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 (CC7 IV) | Site Agent | Mr. Aaron Au | 6345 0754 | | |
| Main Contractor (CCZJV) | Environmental Officer | Ms. Kimberly Wong | 5542 1669 | | |
| ET (FTS) | Environmental Team Leader | Mr. David Hung | 3565 4371 | | |

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1.3 Construction Programme and Activities

- 1.3.1 The construction of the Project commenced on 29 November 2018 and is expected to complete in 2023. The construction programme is shown in **Appendix A**.
- 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 |
|---|---|--|---|---|
| Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities diversion Mini pile works | Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities diversion Noise barrier foundation works Trial pits excavation | Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities detections Underground utilities diversion Soldier pile works Pier construction works Bored pile works Sign Gantry footing works Noise barrier foundation works Construction of Lagging wall and retaining wall Demolition of existing parapet Pre-drilling works Demolition works for existing central median Relocation of traffic light | Underground utilities detections Underground utilities diversion Demolition works for existing central median Foundation works for Footbridge NF66 and NF40 Mini Pile works Temporary road and site access construction works | Trial pits excavation Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities detections Underground utilities diversion Noise Barrier Foundation Works Soil replacement works on slopes Mini Pile works Construction for temporary haul road and site access Preparation works for lane shifting |

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**.

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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 – Zone 5) | WT00032446-2018 | 09/11/2018 | 30/11/2023 |
| Construction Noise Permit | GW-RN0917-20 | 20/1/2021 | 15/3/2021 |
| for Road Closure works at | GW-RN0841-20 | 29/11/2020 | 31/1/2021 |
| restricted hours | GW-RN0798-20 | 12/11/2020 | 11/5/2021 |

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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 | AMS 6 | *Sibata | Model LD-5R | Sibata Portable TSP Monitors | 761106 |
| 2 | AMS 7A | *Sibata | Model LD-5R | Sibata Portable TSP Monitors | 892187 |
| 3 | AMS 8 | *Sibata | Model LD-5R | Sibata Portable TSP Monitors | 892189 |
| 4 | AMS 13 | *Sibata | Model LD-5R | Sibata Portable TSP Monitors | 761105 |

Notes: As electricity supply is not available and accessible for the High Volume Samplers (HVS) at AMS 6, 8, 11A and 13 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 | AMS 6 | Sibata | Model LD-5R | Sibata Portable TSP Monitors | 761106 |
| 2 | AMS 7A | Sibata | Model LD-5R | Sibata Portable TSP Monitors | 892187 |
| 3 | AMS 8 | Sibata | Model LD-5R | Sibata Portable TSP Monitors | 892189 |
| 4 | AMS 13 | Sibata | Model LD-5R | Sibata Portable TSP Monitors | 761105 |

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.

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- 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 (ALS Technichem (HK) Pty Ltd./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 m³/min and 1.7 m³/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.

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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.

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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 December 2020 is north, north east, 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 |
|-----------------------|-----------------|---------------------|
| AMS 6 | Shatin Plaza | Residential |
| AMS 7A | Sheung Wo Che | Residential Village |
| AMS 8 | Lek Yuen Estate | Residential |
| AMS 13 | Fung Wo Estate | Residential |

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 4A, 5, 7A and 12 in the reporting month.
- 2.6.3 During the reporting month, major dust sources including trial pits excavation, pre-drilling, mini pile works, soldier pile, sheet pile works and Pre Bored H-pile 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 (µg/m³) | Range (µg/ m³) | Action Level (μg/ m³) | Limit Level (µg/ m³) |
|-----------|-----------------------|--------------------|-------------------|-----------------------|-------------------------|
| | AMS 6 | 63 | 46 - 81 | 165 | |
| 24-hr TSP | AMS 7A | 73 | 60 - 100 | 171 | 260 |
| in µg/m³ | AMS 8 | 67 | 53 - 95 | 161 | 200 |
| | AMS 13 | 67 | 48 - 89 | 174 | |

Table 2.5 Summary of 1-hr TSP Monitoring Results

| Parameter | Monitoring Station | Average (µg/m³) | Range (µg/ m³) | Action Level (μg/ m³) | Limit Level (µg/ m³) |
|-----------|-----------------------|--------------------|-------------------|-----------------------|-------------------------|
| | AMS 6 | 78 | 54 - 97 | 347 | |
| 1-hr TSP | AMS 7A | 90 | 75 - 112 | 344 | E 00 |
| in µg/m³ | AMS 8 | 78 | 50 - 104 | 336 | 500 |
| | AMS 13 | 84 | 62 - 112 | 303 | |

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

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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

| Table 9:1 Rollo Montoring Equipment | | | | |
|-------------------------------------|---------|----------------|-------------------------------|------------------|
| Item | Brand | Model | Equipment | Serial Number |
| 1 | Casella | CEL-63X Series | Integrating Sound Level Meter | 1488271 |
| 2 | Casella | CEL-63X Series | Integrating Sound Level Meter | 1488272 |
| 3 | Casella | CEL-63X Series | Integrating Sound Level Meter | 1488304 |
| 4 | Casella | CEL-120 Series | Calibrator | 2383886 |
| 5 | Casella | CEL-120 Series | Calibrator | 2383707 |
| 6 | Casella | CEL-120 Series | Calibrator | 4358289 |

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 |
|--|--|
| LAeq (30min) | At each station at 0700-1900 hours on normal weekdays at a frequency |
| L ₁₀ and L ₉₀ will be recorded for reference | of once a week |

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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 : Atime 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 2**.

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Table 3.3 Location of Noise Monitoring Station

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

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 No raining and wind with speed over 5 m/s was observed during day time noise monitoring according to the onsite observation. The weather conditions during the monitoring month are provided in **Appendix K**.
- 3.7.5 The day time noise monitoring data are summarized in **Table 3.4**. Detailed monitoring data are presented in **Appendix G**.

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Table 3.4 Summary of Day Time Noise Impact Monitoring Results

| | ct wonitoring Results | | |
|-----------------------|---|---|--|
| Monitoring Station | L _{eq (30min)} Range, dB(A) Construction Noise Level | L _{eq (30min)} Limit Level, dB(A) | |
| NMS1 | 59.7 – 63.4 | 75 | |
| NMS2 | 54.2 – 57.1 | 75 | |
| NMS3 | 65.5 – 71.1 | 75 | |
| NMS4 | 63.0 – 68.2 | 75 | |
| NMS5A | 67.6 – 72.8 | 75 | |
| NMS6A | 67.2 – 72.1 | 75 | |
| NMS7 | 62.3 – 72.1 | 75 | |
| NMS8 | 64.8 – 70.0 | 75 | |
| NMS9 | 61.8 – 68.6 | 75 | |
| NMS10A | 62.3 – 67.0 | 70* | |
| NMS11 | 58.4 – 63.2 | 75 | |
| NMS12 | 62.6 – 68.5 | 70* | |
| NMS13 | 64.7 – 69.1 | 75 | |
| NMS14 | 54.0 – 64.0 | 75 | |
| NMS15 | 62.7 – 68.6 | 75 | |
| NMS16 | 62.6 - 67.0 | 75 | |
| NMS17 | 62.6 - 63.6 | 70* | |
| NMS18 | 59.4 – 68.4 | 75 | |
| NMS19 | 65.1 – 67.4 | 75 | |
| NMS20 | 58.7 - 68.6 | 75 | |
| NMS23 | 63.9 – 69.5 | 75 | |
| NMS24 | 63.0 - 68.5 | 75 | |
| NMS25A | 59.8 – 71.6 | 75 | |
| NMS26 | 67.3 – 68.4 | 75 | |
| NMS27 | 63.9 – 68.5 | 70* | |

Note: 1. L_{eq (30min)} was measured at day-time (0700-1900) on normal weekdays.

3.7.6 Regular night time noise monitoring were conducted on 7, 14, 21 and 28 January 2021 and the results are summarized in **Table 3.5**. Detailed monitoring data are presented in **Appendix G.**

^{2. 70} dB(A) for schools and 65 dB(A) for schools during examination period.

^{3.} The examination schedule was provide in Appendix E.

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Table 3.5 Summary of Night Time Noise Impact Monitoring Results

| Monitoring | L _{eq (15min)} Range, dB(A) | L _{eq (15min)} Limit | L _{eq (15min)} Baseline, |
|------------|--------------------------------------|-------------------------------|-----------------------------------|
| Station | Construction Noise Level | Level, dB(A) | dB(A) |
| NMS1 | 59.1 – 61.0 | 55 | 61.4 |
| NMS2 | 47.5 – 50.3 | 55 | 49.7 |
| NMS3 | 61.6 – 62.7 | 55 | 70.9 |
| NMS4 | 55.2 – 58.7 | 55 | 62.6 |
| NMS5A | 64.9 – 67.8 | 55 | 67.9 |
| NMS6A | 68.3 – 69.7 | 55 | 71.5 |
| NMS7 | 55.0 – 57.4 | 55 | 59.0 |
| NMS8 | 61.7 – 63.9 | 55 | 64.4 |
| NMS9 | 53.8 – 55.0 ^[2] | 55 | 53.5 |
| NMS11 | 50.5 – 54.9 ^[2] | 55 | 53.2 |
| NMS13 | 45.9 – 54.6 ^[2] | 55 | 57.3 |
| NMS14 | 53.5 – 55.0 | 55 | 54.1 |
| NMS15 | 57.0 – 58.3 | 55 | 58.8 |
| NMS16 | 51.4 – 59.4 ^[2] | 55 | 60.1 |
| NMS18 | 57.5 – 60.3 | 55 | 63.2 |
| NMS19 | 60.1 – 61.2 | 55 | 61.7 |
| NMS20 | 55.6 – 57.1 | 55 | 57.7 |
| NMS23 | 58.4 – 59.5 | 55 | 59.9 |
| NMS24 | 51.8 – 58.0 ^[2] | 55 | 58.0 |
| NMS25A | 57.5 – 59.4 | 55 | 59.7 |
| NMS26 | 48.6 – 60.4[2] | 55 | 61.2 |

Note: 1) L_{eq (15min)} was measured at night-time (2300-0700).

- 2) When the Average Measured Noise Level is greater than Limit Level and baseline level, Average Construction Noise Level (CNL) will be applied, where Calculated CNL = Measured Noise Level during operation Baseline
- 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 construction noise monitoring, no exceedance case 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**.

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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 are given in **Appendix M.**
- 4.2.2 No non-compliance of the landscape and visual impact was recorded in the reporting month.

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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**.

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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 7, 14, 21 and 28 January 2021. The site inspection held on 28 January 2021 was joint inspection with the IEC, ER, the Contractor and the ET during the reporting period.
- 6.1.3 All the follow-up actions requested by ET and IEC during the site inspections were completed and 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**.

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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 7, 14, 21 and 28 January 2021 respectively 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 No complaint cases were received during the reporting period.
- 7.2.2 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix L**.

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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

- Provide mitigation measure (e.g. canvas covering) for the stockpile of excavated material to prevent dust impact (Zone 3).
- Contractor was reminded to provide water spray for construction area at Zone 5 to prevent dust spread.
- Provide mitigation measure (e.g. water spraying) to suppress dust emission (RW7).
- The frequency of water spray should be increased to reduce the dust impact (Zone 3).

Construction Noise Impact

• No specific observation was identified in the reporting month.

Water Quality Impact

Clean up the sediment in the desilting tank (TPT408) at Zone 3.

Chemical and Waste Management

- General waste should be cleared at works area B to maintain good site condition.
- Clean up the oil stain with absorbent material and treated it as chemical waste for disposal (RW7).
- Drip tray should be provided for chemicals to prevent chemical leakage.
- Remove stagnant water or oil in the drip tray (RW7).

Land Contamination

No specific observation was identified in the reporting month.

Landscape and Visual Impact

• No specific observation was identified in the reporting month.

General Condition

• No specific observation was identified in the reporting month.

Permit / Licenses

• No specific observation was identified in the reporting month.

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9. FUTURE KEY ISSUES

9.1 Construction Programme for the Next Month

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

- (1) Tree preservation / felling/ pruning/ transplantation in Zone 1, 2, 3, 4 & 5.
- (2) Pre-drill works in Zone 1 & 2.
- (3) Mini pile Works in Zone 1, 4 & 5.
- (4) Backfilling for underground utilities trench in Zone 1 & 2.
- (5) Pile Cap Construction Works in Zone 1, 2 & 3.
- (6) Trial Pits Excavation in Zone 3. 4 & 5.
- (7) Underground utilities detections in Zone 3, 4 & 5.
- (8) Noise Barrier Foundation Works in Zone 3 & 5.
- (9) Lagging wall and Retaining wall in Zone 3.
- (10) Construction/ Diversion of underground utilities in Zone 3.
- (11) Relocation of Traffic Light in Zone 3.
- (12) Soldier Pile Construction Works in Zone 3.
- (13) Pre Bored H Pile Construction Works in Zone 3.
- (14) Pier Construction Works in Zone 3.
- (15) Demolition of Central Median, and Temporary Median Module Installation Works in Zone 3 & 4.
- (16) Demolition of NF40 Footbridge Existing Staircases in Zone 4.
- (17) NF66 Footbridge Footing Construction Works in Zone 4.
- (18) Soil Replacement Works on Slope in 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**.

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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 night time noise monitoring was carried out on 7, 14, 21 and 28 January 2021 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 7, 14, 21 and 28 January 2021. Recommendations on mitigation measures on air quality, chemical and waste management and water were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 10.1.5 No complaint cases were received during the reporting period.

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Figure 1

Project General Layout

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Figure 2a

Air Monitoring Locations

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Figure 2b

Noise Monitoring Locations

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Appendix A

Construction Programme

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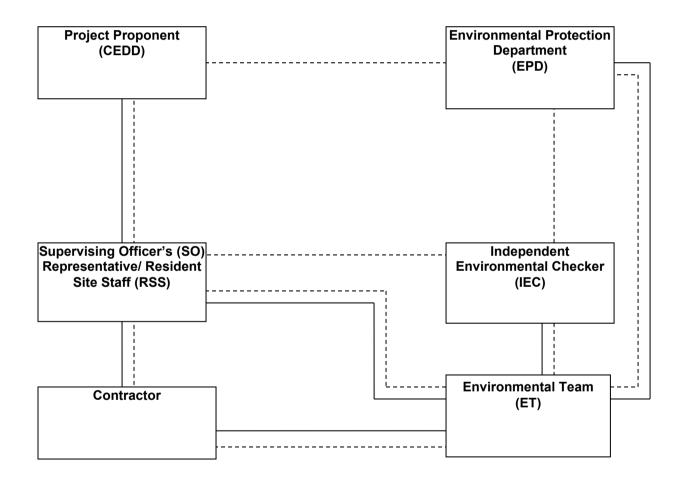


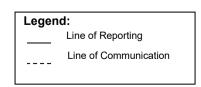
Appendix B

Project Organization Chart

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Appendix C

Action and Limit Levels for Air Quality and Noise

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

| Parameter | Monitoring Station | Action Level (µg/m³) | Limit Level (µg/ m³) |
|-----------|--------------------|-------------------------|-------------------------|
| | AMS 6 | 165 | |
| 24-hr TSP | AMS 7A | 171 | 260 |
| (µg/m³) | AMS 8 | 161 | 200 |
| | AMS 13 | 174 | |
| | AMS 6 | 347 | |
| 1-hr TSP | AMS 7A | 344 | 500 |
| (µg/m³) | AMS 8 | 336 | 500 |
| | AMS 13 | 303 | |

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 NMS16 NMS17* NMS18 NMS18 NMS19 NMS20 NMS20 NMS23 NMS24 NMS25A NMS26 NMS26 NMS27* | When one documented complaint is received | 75 dB(A) |

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

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Appendix D

Calibration Certificates of Monitoring Equipment

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Appendix E

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

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Appendix F

Air Quality Monitoring Data

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Appendix G

Noise Monitoring Data

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Appendix H

Events and Action Plan

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Event and Action Plan for Construction Dust Monitoring

| EVENT | Event and Action Plan for Construction Dust Monitoring ACTION | | | | | | | | | |
|--|---|---|---|---|--|--|--|--|--|--|
| EVENI | ET Leader | IEC | SO | Contractor | | | | | | |
| Action Level | Li Leauei | ILO | 30 | Contractor | | | | | | |
| 1. Exceedance for one sample | Identify the source. Inform the IEC and the SO. Repeat measurement to confirm findings. Increase monitoring frequency to daily. | Check monitoring data submitted by the ET Leader. Check Contractor's working method. | Notify Contractor. | Rectify any unacceptable practice. Amend working methods if appropriate. | | | | | | |
| 2. Exceedance for two or more consecutive samples | Identify the source. Inform the IEC and the SO. Repeat measurement to confirm findings. Increase monitoring frequency to daily. Discuss with the IEC and the Contractor on remedial actions required. If exceedance continues, arrange meeting with the IEC and the SO. If exceedance stops, cease additional monitoring. | Check monitoring data submitted by the ET Leader. Check the Contractor's working method. Discuss with the ET Leader and the Contractor on possible remedial measures. Advise the SO on the effectiveness of the proposed remedial measures. Supervisor implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemente d. | 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. Discuss amongst | 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures are properly implemented. 1. Confirm | 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. | | | | | | |
| Exceedance | and the EPD and the | the SO, ET | receipt of | action to avoid | | | | | | |

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| EVENT | | ACTION | | |
|-------------------------------------|---|---|--|--|
| | ET Leader | IEC | SO | Contractor |
| for two or more consecutive samples | 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. | 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. | 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. | 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. |

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Event and Action Plan for Noise Impact

| EVENT | | ACTION | l | |
|-----------------|--|--|--|--|
| | ET Leader | IEC | SO | Contractor |
| Action Level | Notify the IEC and the Contractor. Carry out investigation. Report the results of investigation to the IEC. Discuss with the Contractor and formulate remedial measures. 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. | Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. | Submit noise mitigation proposals to IEC. Implement noise mitigation proposals. |
| Limit Level | Notify the IEC, the SO and the Contractor. Identify the source. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform the IEC, the SO and the EPD the causes & actions taken for the exceedance. Assess effectiveness if the Contractor's remedial actions and keep the IEC and the SO informed of the results. 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. |

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Event and Action Plan for Landscape and Visual Impact

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

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Appendix I

Waste Flow Table

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



| Waste Flow Table for Year 2018 | | | | | | | | | | | |
|--------------------------------|---|---|---------------------------|--------------------------|----------------------------|---------------|---|----------------------------------|--------------------------|-------------------|-----------------------------------|
| | | Actual Quan | tities of Inert C&I | O Materials Gene | rated Monthly | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
| Monthly Ending | 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 |

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



| Waste Flow | Table for Year | 2019 | _ | | _ | _ | _ | | _ | | _ |
|-------------------|--|---|---------------------------|-----------------------------|----------------------------|---------------|---|----------------------------|--------------------------|----------------|--------------------------------|
| | | Actual Qua | antities of Inert C& | D Materials Genera | ited Monthly | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
| Monthly Ending | 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 |

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| Waste Flow | Table for Year | 2020 | | | | | | | | | |
|-------------------|--|---|---------------------------|-----------------------------|----------------------------|---------------|---|----------------------------|--------------------------|----------------|--------------------------------|
| | | Actual Qua | antities of Inert C& | D Materials Genera | ited Monthly | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
| Monthly Ending | 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 m³.
- 4) Updated data for previous month.

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| Waste Flow Table for Year 2021 | | | | | | | | | | | |
|--------------------------------|--|---|---------------------------|-----------------------------|----------------------------|---------------|---|----------------------------|--------------------------|----------------|--------------------------------|
| | | Actual Qua | entities of Inert C& | D Materials Genera | ted Monthly | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
| Monthly Ending | 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 | | | | | | | | | | | |
| 2021 Mar | | | | | | | | | | | |
| 2021 Apr | | | | | | | | | | | |
| 2021 May | | | | | | | | | | | |
| 2021 Jun | | | | | | | | | | | |
| Sub-Total | 3.196 | 0.000 | 0.000 | 0.000 | 3.196 | 0.000 | 0.001 | 0.048 | 0.855 | 0.000 | 0.053 |
| 2021 Jul | | | | | | | | | | | |
| 2021 Aug | | | | | | | | | | | |
| 2021 Sep | | | | | | | | | | | |
| 2021 Oct | | | | | | | | | | | |
| 2021 Nov | | | | | | | | | | | |
| 2021 Dec | | | | | | | | | | | |
| Total | 3.196 | 0.000 | 0.000 | 0.000 | 3.196 | 0.000 | 0.001 | 0.048 | 0.855 | 0.000 | 0.053 |

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 data for previous month.

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Appendix J

Environmental Mitigation Implementation Schedule (EMIS)

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



| EIA Review Ref | Location | Environmental Protection Measures/ | Implementation Agent | Implementation Status in Construction Phase |
|--------------------------------|---|--|-------------------------|---|
| | | Noise Measures | | |
| | | Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A). | Contractor | Implemented |
| | | • PME is recommended to operate in sub-grouping, and different sub-groups shall not be operated concurrently within any half hour period | Contractor | Implemented |
| | | • The construction activities should be carried out in the daytime hours (0700 – 1900). Construction Noise Permit (CNP) for constriction activities is required during evening or night time hours. | Contractor | Implemented |
| 3.10.2, 3.10.3, 3.10.14, | | • 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 |
| 3.10.15 and Table 3.10 | | Use of well-maintained and regularly-serviced plant during the works. | Contractor | Implemented |
| Table 3.10 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | • Plant operating on intermittent basis should be turned off or throttled down when not in active use. | Contractor | Implemented |
| | Within the boundaries of all construction | • Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs. | Contractor | Implemented |
| | | Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works. | Contractor | Not Applicable |
| | sites. | 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 | | The use of particular plant with equipment quieter than those specified in the GW-TM are recommended to reduce the noise levels generated by the plant. | Contractor | Not Applicable |
| Table 3.3 | | • Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes | Contractor | Not Applicable |
| | | • Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone. | Contractor | Implemented |
| 3.10.6 to 3.10.9 | | 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/m² on skid footing with 25mm thick internal sound absorptive lining to achieve the maximum screening effect. | | Not Applicable |
| | | These temporary noise barriers should be located immediately adjacent to working area. | Contractor | Not Applicable |

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| 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 | Not Applicable |
| | | • For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided. | Contractor | Not Applicable |
| | | • Barrier material of surface density of at least 14 kg/m² is recommended in order to achieve the necessary screening effect. | Contractor | Not Applicable |
| 3.10.10 | | • Full noise enclosures should cover the PME or fixed plants such as air compressor. | Contractor | Not Applicable |
| | | Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works; | Contractor | Not Applicable |
| 3.10.3 | | Where possible fixed plants should be sited away from NSRs; and | Contractor | Not Applicable |
| | | Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works. | Contractor | Not Applicable |
| | | Air Quality Measures | | |
| | | The Contractor shall notify any specific construction works as stated in the Air Pollution Control (Construction Dust) Regulation to the Authority before the commencement of such work. Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be implemented to control dust emissions from all construction work sites. | Contractor | Implemented |
| 4.12.1 and | boundaries of | 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. | | Partially Implemented |
| 4.12.2 | construction | • 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 | Partially Implemented |

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| 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 |
| | | • Stockpiles of sand, aggregate or any other dusty materials greater than 20m³ shall be enclosed on three sides, with walls extending above the pile and 1 meter beyond the front of the pile. | Contractor | Implemented |
| | | Suitable chemical wetting agent such as dust suppression chemical shall be used on completed cuts and fills to reduce wind erosion. | Contractor | Not Observed |
| | | Areas within the construction site where there is a regular movement of vehicles shall have a paved surface and be kept clear of loose surface material. | Contractor | Implemented |
| | | 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. | | 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. | | Implemented |
| 4.12.1 | | • 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. | | Not Applicable |
| | | 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. | | Not Applicable |
| | | • In the event of any spoil or debris from construction works being deposited on adjacent land, or steams, or any slit being washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the Engineer. | | Not Applicable |
| | | If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas. | Contractor | Implemented |
| | | Plant and vehicles shall be inspected annually to ensure that they are operating efficiently and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground. | | Implemented |

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| EIA Review Ref | Location | Environmental Protection Measures/ | Implementation Agent | Implementation Status in Construction Phase |
|-----------------------|------------|--|-------------------------|---|
| 4.12.1, 4.13.1 and | | •Construction dust monitoring shall be carried out at representative monitoring locations during the construction period. | Contractor | Implemented |
| Table 8.2 | | Path for complaints and handling procedures should be set up and implement. | Contractor | Implemented |
| | | Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005. | Contractor | Implemented |
| NA | | Plant and equipment should be well maintained to prevent dark smoke emission. | Contractor | Implemented |
| | | Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site. | Contractor | Implemented |
| | | Water Quality Measures | | |
| | | 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: | | Implemented |
| | Within the | • Construction works should be programmed so as to minimise excavation during the wet season (April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm. | Contractor | Implemented |
| 5.7 | all | 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. | | Implemented |
| | | • Stock piles of construction materials, sand and gravel or excavated material should be covered with tarpaulins prior to rainstorms. The washing of material from the stockpiles directly into the storm drains should be prevented by passing the run off through a sediment trap. | Contractor | Partially Implemented |
| | | • The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be constructed prior to the commencement of site formation and earthworks. | Contractor | Implemented |
| | | • The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained | Contractor | Partially Implemented |

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| 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 | Not Applicable |
| | | • Plant maintenance areas should be paved to prevent waste oils soaking into the ground. Where possible the area should be undercover to minimise the formation of runoff and any runoff from the paved area passed through an oil trap before being discharged to the storm drains. Fuel storage tanks should be surrounded by bunds with a capacity of at least 150% of the storage capacity. The bunded areas should be able to be drained of rain water through the petrol interceptor and accumulated rain removed at regular intervals. | Contractor | Not Applicable |
| | | Waste oils from the site should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance and absorbent cloths and granules should be available for the cleanup of spillages. | | Not Applicable |
| | | Sewage from toilets and kitchens should be discharged directly into a foul sewer. If it is not possible to locate the site offices within easy access of a foul sewer a septic tank and soakaway should be constructed before the offices are occupied. Chemical toilets should be emptied on a daily basis and the contents taken to a foul sewer or the Sha Tin Sewage Treatment Works for disposal. | Contractor | Implemented |

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| 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. All discharges into foul sewers and storm sewers should have to be complied with TM standards under WPCO. | | |
| | | Run off from roofed surfaces of site facilities should be collected and diverted to a storm water drain. Passage through a silt trap is only required if the water is diverted via open .channels which might accumulate solids during non-rainy periods or which intercept surface run off from unpaved areas. | | Implemented |
| | | • Discharges from the site shall be required to meet the terms and conditions of a valid WPCO Water Pollution Control Ordinance (WPCO). | Contractor | Implemented |
| | | Regular site inspection of the construction works shall be carried out to determine compliance with th Inspection should be included: | e recommended n | nitigation measures. |
| | | (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 | Partially Implemented |
| Section 12.6 of the | | (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 |
| Approved EIA Report | | (v) The use of washwater for hosing down concrete mixing and delivery vehicles and other vehicles leaving the site and the routine of excess water from the facility through sediment traps. | Contractor | Not Applicable |
| | | (vi) The operation of the plant maintenance areas to control small spillages and the correct management of the fuel storage bunded area. | Contractor | Not Applicable |
| | | (vii) The connection of the site office wastewater discharge to an existing foul sewer if appropriate or the operation of the kitchen wastewater grease trap and the regular emptying of the chemical toilets | Contractor | Not Applicable |
| | | (viii)The operation of the roof rain water collection and drainage system. | Contractor | Not Applicable |
| | | Landscape and Visual Mitigation Measures | | |
| | | Construction Phase | | |
| Table 6.5 | During construction within the | • Existing trees shall be preserved as much as possible. Detailed tree preservation and transplanting proposals shall be submitted to relevant government departments for approval in accordance with DEVB TC (W) No. 7/2015. | | Implemented |
| | Project Boundary. | • 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 |

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| 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 | Not Applicable |
| | | Decorative screen hoarding with design compatible with the surrounding landscape setting shall be erected along the southern boundary of Tai Po Road to mitigate any potential adverse impact on adjacent Pedestrian and Cyclists on Footpath/Bicycle Track. | | Not Applicable |
| | | Operation Phase | | |
| | | • Compensatory planting shall be provided within and outside the project boundary where possible. Detailed compensatory planting proposal will be prepared in accordance with DEVB TC (W) No. 7/2015. | Contractor | Not Applicable |
| | During construction | • 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 |
| | within the Project Boundary. | • Provision of visually pleasing noise barriers and enclosures design shall be proposed. The design of these structures aims to minimize any potential visual impact and visually integrate the proposed structures into the adjacent landscape context. This should be achieved through the use of form, color, tones, materials and planting materials. | | 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 |
| | | <u>Waste Management Measures</u> | | |
| 7.0.2 10 7.0.4 | all | • 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 |

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| 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 |
| | | Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimization of waste generation in the hierarchy. | Contractor | Partially Implemented |
| 7.6.5 to 7.6.6 | | Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste. | Contractor | Implemented |
| | | Specific measures targeting the mitigation of impacts in works areas and the transportation of spoil off-site should be provided to minimize the potential impacts to the surrounding environment. | Contractor | Implemented |
| 7.6.7 | Within the boundaries of all | • 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 |
| | construction | The contractor's environmental performance shall be monitored and controlled through the weekly en environmental walks shall include: | vironmental walks | . The items after the |
| | | 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 |
| | n routes to | The environmental performance of the contractor and his sub-contractors; | Contractor | Implemented |
| | designed areas for off- | • The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and | Contractor | Implemented |
| 7.6.8 to 7.6.9 | of . | • The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site. | Contractor | Implemented |
| | activities. | Waste shall only be disposed of at licensed sites and the WMP should include procedures to ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&D materials and non-inert C&D materials at public 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 |

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| 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 | Implemented |
| | | • In order to minimize the impact resulting from collection and transportation of C&D material for off- site disposal, the excavated fill materials should be reused on site as backfill material as far as possible. | | Implemented |
| | | Careful design, planning and good site management should be maintained in order to minimise over ordering and generation of surplus materials such as concrete, mortars and cement grouts. The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic facing should be considered to increase the potential for reuse. | Contractor | Implemented |
| 7.6.11 to 7.6.14 | | C&D materials should be segregated on site into different waste and material types. The Contractor should clearly demonstrate in the EMP how he intends to maximise the reuse of C&D material on-site. Where reuse of materials on site is not feasible, the Contractor should explore opportunities for recycling materials off-site, and inert C&D materials shall be reused on site as much as possible. | Contractor | Implemented |
| | | Paving bricks arising from existing pavement should be recycled on site as much as possible. | Contractor | Not Applicable |
| | | • Existing marginal roadside barriers comprise pre-cast units should be reused in the following widening works as much as possible, | Contractor | Not Applicable |
| | | • Existing bridge parapets comprise aluminum post and railings, which have a recyclable value and should be sold for reconditioning or reused for scrap metal as much as possible | Contractor | Not Applicable |
| | | • Any stockpile should be sited away from existing watercourses and suitably covered to prevent wind erosion and impacts on air and water quality. | Contractor | Implemented |
| 7.6.15 to | | • Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handl as follows. Containers used for the storage of chemical wastes should: | ing and Storage | of Chemical Wastes |
| 7.6.17 | | • be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; | Contractor | Implemented |

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| 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 | 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; | | 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 chemica (Chemical Waste) (General) Regulation will require disposal by appropriate means and could require 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 | | 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 | Implemented |
| | | Separate labelled bins should be provided if feasible. | Contractor | Not Observed |
| | | • Office waste can be reduced through recycling of paper if volume is large enough to warrant collection. Participation in a local collection scheme should be considered if one is available. | Contractor | Implemented |
| 7.7.1 | | All wastes produced during the construction of the Project shall be handled, stored, and disposed of in accordance with good waste management practices and relevant regulations and requirements. | Contractor | Partially Implemented |

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| EIA Review Ref | Location | Environmental Protection Measures/ | Implementation Agent | Implementation Status in Construction Phase |
|-------------------|--|--|-------------------------|---|
| | | • 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 / Implemented / Not Implemented / Not Observed / Not Applicable

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Appendix K

Weather and Meteorological Conditions during Reporting Month

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| | Mean | | Air Temperature |) | Mean Relative | Total |
|------|-------------------|---------------------|------------------|---------------------|------------------|------------------|
| Date | Pressure (hPa) | Maximum (deg. C) | Mean (deg. C) | Minimum (deg. C) | Humidity (%) | Rainfall (mm) |
| | | | January 2021 | | | |
| 1 | 1025.5 | 15 | 11.8 | 8.6 | 40 | - |
| 2 | 1022.9 | 17.8 | 14 | 10.4 | 52 | = |
| 3 | 1021.9 | 20.6 | 16.7 | 13.4 | 65 | - |
| 4 | 1021 | 20.7 | 18.3 | 16.9 | 66 | - |
| 5 | 1020.1 | 21.9 | 18.8 | 17.3 | 65 | - |
| 6 | 1020 | 19.6 | 17.1 | 16 | 72 | - |
| 7 | 1020.8 | 18.3 | 15.3 | 10.6 | 67 | - |
| 8 | 1025 | 10.7 | 9.1 | 7.7 | 52 | - |
| 9 | 1024.5 | 13.1 | 10.7 | 8 | 38 | - |
| 10 | 1023.5 | 15.2 | 12.8 | 11 | 40 | - |
| 11 | 1025.8 | 12.4 | 10.6 | 9.2 | 44 | - |
| 12 | 1023.6 | 15.7 | 11.9 | 8.6 | 33 | - |
| 13 | 1019.8 | 17.8 | 13.4 | 10.4 | 48 | - |
| 14 | 1017.8 | 19.5 | 15.2 | 11.8 | 55 | - |
| 15 | 1016.1 | 20.9 | 17.3 | 14.6 | 59 | - |
| 16 | 1017.4 | 20.3 | 17.6 | 15.8 | 68 | - |
| 17 | 1023.5 | 19.6 | 16.6 | 14.1 | 58 | - |
| 18 | 1023.3 | 17.3 | 14.2 | 11.7 | 53 | - |
| 19 | 1020.3 | 17.4 | 15.4 | 12.6 | 64 | = |
| 20 | 1018.1 | 21.4 | 18.2 | 16.1 | 69 | = |
| 21 | 1015.6 | 22.8 | 20.1 | 17.6 | 73 | - |
| 22 | 1013.4 | 24.5 | 20.3 | 18.2 | 80 | - |
| 23 | 1014 | 24.4 | 20.2 | 17.7 | 78 | - |
| 24 | 1017.1 | 20 | 18.4 | 17.3 | 83 | Trace |
| 25 | 1017.6 | 22.9 | 19.2 | 16.9 | 74 | - |
| 26 | 1016.9 | 23.5 | 19.6 | 17.4 | 78 | - |
| 27 | 1017.8 | 21.9 | 18.9 | 17.6 | 77 | - |
| 28 | 1020.7 | 22.8 | 19.1 | 16.5 | 70 | - |
| 29 | 1022.6 | 19.7 | 16.6 | 14.3 | 60 | - |
| 30 | 1022.5 | 19.5 | 16.7 | 14.8 | 68 | _ |
| 31 | 1021.6 | 21.6 | 18.4 | 16 | 67 | |

Source: Hong Kong Observatory

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Appendix L

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

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

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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 | 2/2/2019 | EPD | CCZJV | Noise | 13/2/2019 | 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. | 20/2/2019 |
| COM-2019- 006 | 22/2/2019 | Project Hotline of NE/2017/05 | CCZJV | Noise | 26/2/2019 | 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 | 4/3/2019 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|-------------------------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | modify the existing semi-enclosure installed in the cherry picker Also, three sides with top as a semi-enclosure to be used and those tree felling activities should be inside the semi-enclosure in the ground slope. The main contractor had been recommended to review their works program and methods of tree felling as to minimize the night time tree felling activities. | |
| COM-2019- 0010 | 28/3/2019 | Project Hotline of NE/2017/05 | CCZJV | Noise | 28/3/2019 | 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 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. | 4/4/2019 |
| COM-2019- 0033 | 26/7/2019 | Police visit on-site | CCZJV | Noise | 26/7/2019 | 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 | 30/7/2019 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | 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. | |
| COM-2019- 0045 | 30/8/2019 | 1823 | CCZJV | Noise | 30/8/2019 | 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 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. | 19/9/2019 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|--|----------------|------------------------|-----------------------|--|---------------|
| COM-2019- 0056 | 9/10/2019 | Project Hotline of NE/2017/05 and 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. | 4/11/2019 |
| COM-2019- 0057 | 9/10/2019 | 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 | 21/10/2019 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|-----------------------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | 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. | |
| COM-2019- 0066 | 6/11/2019 | EPD | CCZJV | Noise | 7/11/2019 | The complaint of the emergency road repair work is related to the project. The works on on 5 th November 2019 between 22:00 and 06:00 the next day at southbound slow lane of Tai Po Road outside Wai Wah Centre, including breaking operation. The main contractor should inform the EPD in advance of any emergency opening works of the Project in future to facilitate the effective handling of noise complaint that may arise. | 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 | 19/03/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|--------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | 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. | |
| 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 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. | 07/04/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|--------------------|----------------|------------------------|-----------------------|--|---------------|
| 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 | 04/05/2020 |
| COM-2020- 0091 | 28/03/2020 | Project hotline | CCZJV | Noise | 28/03/2020 | unloading works. ET conduct regular night-time noise monitoring at all monitoring stations between 23:00 26 th March 2020 to 04:00 27 th March 2020, and between 23:00 2 nd April 2020 to 04:00 3 rd April respectively. No exceedance cases were found on both ET regular night-time noise monitoring measurement. ET did not remark onsite 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- 0093 | 06/04/2020 | Project hotline | CCZJV | Noise | 06/04/2020 | The complaint case on 6 th Apr was received by project hotline. The major construction works between (10:00pm – 11:00pm) on 6 th April 2020 was TTA implementation works and asphalt removal works for the road surface remedial work | 28/04/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|--------------------|----------------|---------------------|-----------------------|---|---------------|
| | | | | | | at zone 2 adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. The night time noise monitoring results measured at NMS3, 4 & 6A were all lower than that of measured in the baseline, two exceedance case were found at NMS 5A especially NMS 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 | |
| COM-2020- 0097 | 20/04/2020 | Project Email | CCZJV | Noise | 20/04/2020 | filed three complaints about the noise nuisance generated by the nearby construction activities | |
| COM-2020- 0098 | 21/04/2020 | Project hotline | CCZJV | Noise | 21/04/2020 | during daytime. Two complaints were made through project hotline on 20 th Apr 2020 at 10:57 a.m. and 21 st Apr 2020 at 9:03 a.m., while the other one was through project email on 20 th Apr 2020 at 12:43 p.m. The noise source(s) of the concerned nuisance during complaint period | 19/05/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|--------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | should be mini piling works, which is opposite to Wai Wah Centre. According to the contractor's work schedule, major day work activity was minipiling 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 20 th & 21 st 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 20 th and 21 st Apr 2020 was carried out at non restricted hours with green tarpaulin curtain and sound proof canvas. The noise level of NMS 5A and NMS 6A on 22 nd 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 22 nd Apr 2020 was similar to 20 th and 21 st Apr 2020. Therefore, ET's day-time monitoring result on 22 nd April 2020 at NMS5A and NMS6A can act as a reference for impact noise from the similar mini-piling operation on 20 th and 21 st 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 | 05/05/2020 |

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



| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|--------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | nuisance during night works was at zone 2 is opposite to Wai Wah Centre. The major construction works was road surface remedial work since 15 th April 2020 conducted at restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 23 rd April 2020 to 04:00 24 th April 2020. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. There were no exceedance on the night time noise monitoring, especially measured at NMS 5A & NMS 6A where locate at the Wai Wah Centre, the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. Therefore, no exceedance cases were found on ET regular night-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise. | |
| COM-2020- 0100 | 23/04/2020 | Project hotline | CCZJV | Noise | 23/04/2020 | The complaint was received via project hotline on 23 rd April 2020 at 10:45 a.m. A resident of Wai Wah Centre complained that noise generated from operation of the two piling machines | 11/05/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | disturbing her daughter's study for DSE examination, and demanding limitation on operation hours of the machines only at two separate periods between 12 noon and 1p.m and 3 p.m. to 6 p.m. According to the Main Contractor, the major construction works at day time (08:00-18:00) on 23 rd April 2020 was mini-piling operation at Zone 2 Central Median of Tai Po Road near Wai Wah Centre. According to the photo records of day-time site condition on 23rd April 2020 provided by Main Contractor, the green tarpaulin curtain was provided for the mini-pile drilling machines so that the bottom part of the mini-pile drilling machine was blocked from view of nearby NSR (e.g. residents at Wai Wah Centre) and an additional layer of sound proof canvas was installed at lower level to mitigate the noise from mini-pile drilling operation. The day-time noise monitoring results measured at NMS3, 4, 5A, 6A and 7 were all lower than the limit level, especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The monitoring results show no noise exceedance occurred at both locations. Thus, ET day-time monitoring result on 22 nd April 2020 at NMS5 & NMS6 can be act as a reference for impact noise from the similar mini-piling operation activities on 23 rd April 2020. Therefore, there was no exceedance cases were found in ET regular day-time noise monitoring measurement. ET analyzed that the dominant noise source should be road | |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | traffic noise but not the project-related construction noise. | |
| 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 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 | 15/05/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|------------------|----------------|------------------------|---|---|---------------|
| | | | | | | 26 th March 2020 in accordance with the CNP advice that prior notification should be given to nearby residents. Besides, the road re-surfacing work would be carried out at approximately 14 night-time works between 2 nd and 28 th April 2020 listed in the distributed notices. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at NMS 5A & NMS 6A where locate close to the works area (Wai Wah Centre in Zone 2), the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. 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 | noise. The complainant on 10 th November 2020 complained about water discharge onto the traffic lanes of Northbound towards Sha Tin Section of Tai Po Highway. According to the Main Contractor, there is one active site access located at Zone 1 (R1) near Pai Tau, site access no. is N02. Restricted opening hours of the site access | | 27/11/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|------------------|----------------|---------------------|-----------------------|--|---------------|
| | | | | | | or traffic lanes. ET conducted ad-hoc site inspection on 17 th November 2020. ET had no particular findings related to the complaint and conducted trial to open the bottom of the water barrier valve for testing and checking on the water flow to the construction site at Zone 1. Contractor performed well on environmental preventive measures for soil or silt leakage protection as impervious sheet with sand bags had been 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 | or traffic lanes. The complainant on via ICC1823 on 20 th November 2020 complained about the noise generated from the night-time asphalt laying construction works between Sha Tin Station and nearby Wo Che Estate. Although the main contractor no work at zone 5, but the major night- time construction works was road surface remedial work which was related to the | |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|------------------|----------------------------------|------------------|----------------|------------------------|---------------------------------------|--|---------------|
| | | | | | | "SilentCUBE" with four sides and a top cover at asphalt removal works to mitigate. The Main Contractor was reminded to pay attention to CNP other condition 3.d.3, the electric hand-held breaker shall only be used for carrying out construction work between 22:00 – 23:30 hours. It is prohibited to use the electric hand-held breaker beyond the CNP condition 3.d.3 stated that the using limitation on 23:30. The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during 00:00 to 06:00 sleeping time. | |
| COM-2020- 153 | 26/11/2020 | EPD | CCZJV | Water | · · · · · · · · · · · · · · · · · · · | | 23/12/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | 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. | |
| COM- 2020154 | 27/11/2020 | 1823 | CCZJV | Noise | 30/11/2020 | The complaint was received via ICC1823 on 27 th November 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate at around 01:14 am on 27 th November 2020. According to the Main Contractor, there were no construction works near Wo Che Estate (Zone 5) on 26^27 November 2020. The major construction works were works related to removal of central median (at night-time) under the approved road closure with CNP no.GW-RN0799-20. According to Main Contractor EO Kimberly, she sent prior notification to the EPD on 20 th November 2020 through logging in the webpage of EPD before the 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 | 14/12/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | 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- 2020155 | 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 | 5/1/2021 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | AM13; and AMS13 locate nearest to Zone 5. The ET regular air quality results measured at AMS13 and AM12 in November 2020 and on the 3rd December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action 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- 2020157 | 7/12/2020 | STDC | CCZJV | Dust | 7/12/2020 | 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 | 29/12/2020 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | close to the date of complaint, at selected air monitoring stations AMS5, AMS4A, AMS7A & AMS12. ET regular day-time air quality monitoring measurement results at air quality monitoring stations AMS12, closest to Zone 5. The ET regular air quality results measured at AM12 on 3rd, 9th & 15th December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action level. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to reduce dust impact. The Main Contractor proposed to continue in maintaining the coverings on exposed slopes in good condition for minimizing dust impact. The Main Contractor proposed to increase water spraying at area where active movements of vehicle transportation occur. | |
| COM- 2020161 | 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- | 5/1/2021 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|------------------|----------------------------------|------------------|----------------|------------------------|--------------------------|---|---------------|
| | | | | | | 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. 3.12 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 and NMS26 were lower than that of measured in | |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|------------------|----------------------------------|------------------|----------------|------------------------|--------------------------|---|---------------|
| | | | | | | 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. | |

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Cumulative Statistics on Complaints

| Environmental Parameters | Cumulative No. Brought Forward | No. of Complaints This Month | Cumulative Project- to-Date |
|-----------------------------|-----------------------------------|---------------------------------|--------------------------------|
| Air | 2 | 0 | 2 |
| Noise | 22 | 0 | 22 |
| Water | 2 | 0 | 2 |
| Waste | 0 | 0 | 0 |
| Total | 26 | 0 | 26 |

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 | 0 | 0 | 0 |
| Water | 0 | 0 | 0 |
| Waste | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |

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Appendix M

Summary of Site Audit in the Reporting Month

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

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Summary of Site Audit in the Reporting Month

| Parameters | Date | Observations and Recommendations | Follow-up | |
|-----------------------------------|--|--|---|--|
| | 7 Jan 2021 | Reminder: 1. Contractor was reminded to provide water spray for construction area at Zone 5 to prevent dust spread. | | |
| Air Quality | 14 Jan 2021 | Observation: 1. Provide mitigation measure (e.g canvas covering) for the stockpile of excavated material to prevent dust impact (Zone 3). | (Zone 3) The Stockpile has been covered properly. (Zone 3) Water | |
| | 00.10004 | Provide mitigation measure (e.g water spraying) to suppress dust emission (RE7). Observation: | spraying has been provided. 1. (Zone 3) Water | |
| | 28 Jan 2021 | 1. The frequency of water spray should be increased to reduce the dust impact (Zone 3). | spraying has been provided. | |
| Noise | No specific obs | servation was identified in the reporting month. | | |
| Water Quality | 21 Jan 2021 | Observation: 1. Clean up the sediment in the desilting tank (TPT408) at Zone 3. | 1. (Zone 3) Sedimentation Tank has been cleared. | |
| | 7 Jan 2021 | Observation: 1. General Waste should be cleared at Work Area B to maintain good site condition. | 1. (Work Area B) Debris has been removed. | |
| Chemical and Waste | 14 Jan 2021 | Observation: 1. Clean up the oil stain with absorbent material and treated it as chemical waste for disposal (RW7). Reminder: | (Zone 3) Contaminated soil has been removed and stored properly. | |
| Management | | 1. Remove stagnant water or oil in the drip tray (RW7). | | |
| | 28 Jan 2021 | Observation: 1. Drip tray should be provided for chemicals to prevent chemical leakage. | 1. (Zone 3) Chemical drums have been removed. | |
| Land Contamination | No deficiency was found during the reporting month. | | | |
| Landscape and Visual Impact | No specific observation was identified in the reporting month. | | | |
| General Condition | No specific observation was identified in the reporting month. | | | |
| Permit / Licenses | No specific observation was identified in the reporting month. | | | |



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



Our ref: PL-202102032

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

Attention: Miss FUNG Cannifer

17 February 2021

Dear Miss Fung,

NE/2017/05

Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) Monthly EM&A Report for January 2021

I refer to the email of the ET regarding to the captioned Monthly EM&A Report with report No. 0064/18/ED/0557A, we 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)

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EXECUTIVE SUMMARY

- i. The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the Project and implement the EM&A works.
- ii. This Monthly EM&A report presents the environmental monitoring and audit works for the period between 1 January 2021 and 31 January 2021. 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 |
|--|--|---|---|---|
| Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities diversion Mini pile works Noise barrier foundation works Trial pits excavation | Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities diversion Noise barrier foundation works Trial pits excavation | Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities detections Underground utilities diversion Soldier pile works Pier construction works Bored pile works Bored pile works Sign Gantry footing works Noise barrier foundation works Construction of Lagging wall and retaining wall Demolition of existing parapet Pre-drilling works Demolition works for existing central median Relocation of traffic light | Underground utilities detections Underground utilities diversion Demolition works for existing central median Foundation works for Footbridge NF66 and NF40 Mini Pile works Temporary road and site access construction works | Trial pits excavation Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities detections Underground utilities diversion Noise Barrier Foundation Works Soil replacement works on slopes Mini Pile works Construction for temporary haul road and site access Preparation works for lane shifting |

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.

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v. Regular night time noise monitoring was carried out on 7, 14, 21 and 28 January 2021 respectively and no exceedance case was recorded between 2300 and 0700 of the next day during the reporting month.

Complaint, Notification of Summons and Successful Prosecution

vi. No complaint cases was received during the reporting period.

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.

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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**.

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- 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 26th 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 1st January 2021 and 31st January 2021.

1.2 Project Organization

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

1.2.3

Table 1.1 Contact Information of Key Personnel

| Table 1.1 Contact information of Rey 1 croomics | | | | |
|---|---|-------------------|-----------|--|
| Party | Position | Name | Telephone | |
| Project Proponent (CEDD) | Senior Engineer | Ms. Cannifer Fung | 3152 3446 | |
| Engineer's Representative (AECOM) | | | 2276 0618 | |
| IEC (Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture) | Independent Environmental Checker | Mr. Kevin Li | 9779 2247 | |
| Main Contractor (CC7 IV) | Site Agent | Mr. Aaron Au | 6345 0754 | |
| Main Contractor (CCZJV) | Environmental Officer | Ms. Kimberly Wong | 5542 1669 | |
| ET (FTS) | Environmental Team Leader | Mr. David Hung | 3565 4371 | |

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1.3 Construction Programme and Activities

- 1.3.1 The construction of the Project commenced on 29 November 2018 and is expected to complete in 2023. The construction programme is shown in **Appendix A**.
- 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 |
|---|---|--|---|---|
| Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities diversion Mini pile works | Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities diversion Noise barrier foundation works Trial pits excavation | Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities detections Underground utilities diversion Soldier pile works Pier construction works Bored pile works Sign Gantry footing works Noise barrier foundation works Construction of Lagging wall and retaining wall Demolition of existing parapet Pre-drilling works Demolition works for existing central median Relocation of traffic light | Underground utilities detections Underground utilities diversion Demolition works for existing central median Foundation works for Footbridge NF66 and NF40 Mini Pile works Temporary road and site access construction works | Trial pits excavation Tree Works (including Preservation / Felling / Pruning / Transplantation) Underground utilities detections Underground utilities diversion Noise Barrier Foundation Works Soil replacement works on slopes Mini Pile works Construction for temporary haul road and site access Preparation works for lane shifting |

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**.

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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 – Zone 5) | WT00032446-2018 | 09/11/2018 | 30/11/2023 |
| Construction Noise Permit | GW-RN0917-20 | 20/1/2021 | 15/3/2021 |
| for Road Closure works at | GW-RN0841-20 | 29/11/2020 | 31/1/2021 |
| restricted hours | GW-RN0798-20 | 12/11/2020 | 11/5/2021 |

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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 | AMS 6 | *Sibata | Model LD-5R | Sibata Portable TSP Monitors | 761106 |
| 2 | AMS 7A | *Sibata | Model LD-5R | Sibata Portable TSP Monitors | 892187 |
| 3 | AMS 8 | *Sibata | Model LD-5R | Sibata Portable TSP Monitors | 892189 |
| 4 | AMS 13 | *Sibata | Model LD-5R | Sibata Portable TSP Monitors | 761105 |

Notes: As electricity supply is not available and accessible for the High Volume Samplers (HVS) at AMS 6, 8, 11A and 13 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 | AMS 6 | Sibata | Model LD-5R | Sibata Portable TSP Monitors | 761106 |
| 2 | AMS 7A | Sibata | Model LD-5R | Sibata Portable TSP Monitors | 892187 |
| 3 | AMS 8 | Sibata | Model LD-5R | Sibata Portable TSP Monitors | 892189 |
| 4 | AMS 13 | Sibata | Model LD-5R | Sibata Portable TSP Monitors | 761105 |

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.

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- 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 (ALS Technichem (HK) Pty Ltd./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 m³/min and 1.7 m³/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.

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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.

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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 December 2020 is north, north east, 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 |
|-----------------------|-----------------|---------------------|
| AMS 6 | Shatin Plaza | Residential |
| AMS 7A | Sheung Wo Che | Residential Village |
| AMS 8 | Lek Yuen Estate | Residential |
| AMS 13 | Fung Wo Estate | Residential |

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 4A, 5, 7A and 12 in the reporting month.
- 2.6.3 During the reporting month, major dust sources including trial pits excavation, pre-drilling, mini pile works, soldier pile, sheet pile works and Pre Bored H-pile 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 (µg/m³) | Range (µg/ m³) | Action Level (μg/ m³) | Limit Level (µg/ m³) | |
|-----------|-----------------------|--------------------|-------------------|-----------------------|-------------------------|--|
| | AMS 6 | 63 | 46 - 81 | 165 | | |
| 24-hr TSP | AMS 7A | 73 | 60 - 100 | 171 | 260 | |
| in µg/m³ | AMS 8 | 67 | 53 - 95 | 161 | 200 | |
| | AMS 13 | 67 | 48 - 89 | 174 | | |

Table 2.5 Summary of 1-hr TSP Monitoring Results

| Parameter | Monitoring Station | Average (µg/m³) | Range (µg/ m³) | Action Level (μg/ m³) | Limit Level (µg/ m³) |
|----------------------|-----------------------|--------------------|-------------------|-----------------------|-------------------------|
| 1-hr TSP in µg/m³ | AMS 6 | 78 | 54 - 97 | 347 | 500 |
| | AMS 7A | 90 | 75 - 112 | 344 | |
| | AMS 8 | 78 | 50 - 104 | 336 | |
| | AMS 13 | 84 | 62 - 112 | 303 | |

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

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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

| Table 6:1 Noise Memoring Equipment | | | | |
|------------------------------------|---------|----------------|-------------------------------|------------------|
| Item | Brand | Model | Equipment | Serial Number |
| 1 | Casella | CEL-63X Series | Integrating Sound Level Meter | 1488271 |
| 2 | Casella | CEL-63X Series | Integrating Sound Level Meter | 1488272 |
| 3 | Casella | CEL-63X Series | Integrating Sound Level Meter | 1488304 |
| 4 | Casella | CEL-120 Series | Calibrator | 2383886 |
| 5 | Casella | CEL-120 Series | Calibrator | 2383707 |
| 6 | Casella | CEL-120 Series | Calibrator | 4358289 |

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 |
|--|--|
| LAeq (30min) | At each station at 0700-1900 hours on normal weekdays at a frequency |
| L ₁₀ and L ₉₀ will be recorded for reference | of once a week |

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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 : Atime 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 2**.

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Table 3.3 Location of Noise Monitoring Station

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

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 No raining and wind with speed over 5 m/s was observed during day time noise monitoring according to the onsite observation. The weather conditions during the monitoring month are provided in **Appendix K**.
- 3.7.5 The day time noise monitoring data are summarized in **Table 3.4**. Detailed monitoring data are presented in **Appendix G**.

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Table 3.4 Summary of Day Time Noise Impact Monitoring Results

| Menitering Leq (30min) Range, dB(A) | | | | |
|-------------------------------------|--------------------------|---|--|--|
| Monitoring Station | Construction Noise Level | L _{eq (30min)} Limit Level, dB(A) | | |
| NMS1 | 59.7 – 63.4 | 75 | | |
| NMS2 | 54.2 – 57.1 | 75 | | |
| NMS3 | 65.5 – 71.1 | 75 | | |
| NMS4 | 63.0 – 68.2 | 75 | | |
| NMS5A | 67.6 – 72.8 | 75 | | |
| NMS6A | 67.2 – 72.1 | 75 | | |
| NMS7 | 62.3 – 72.1 | 75 | | |
| NMS8 | 64.8 – 70.0 | 75 | | |
| NMS9 | 61.8 – 68.6 | 75 | | |
| NMS10A | 62.3 – 67.0 | 70* | | |
| NMS11 | 58.4 – 63.2 | 75 | | |
| NMS12 | 62.6 – 68.5 | 70* | | |
| NMS13 | 64.7 – 69.1 | 75 | | |
| NMS14 | 54.0 – 64.0 | 75 | | |
| NMS15 | 62.7 – 68.6 | 75 | | |
| NMS16 | 62.6 - 67.0 | 75 | | |
| NMS17 | 62.6 - 63.6 | 70* | | |
| NMS18 | 59.4 – 68.4 | 75 | | |
| NMS19 | 65.1 – 67.4 | 75 | | |
| NMS20 | 58.7 – 68.6 | 75 | | |
| NMS23 | 63.9 – 69.5 | 75 | | |
| NMS24 | 63.0 - 68.5 | 75 | | |
| NMS25A | 59.8 – 71.6 | 75 | | |
| NMS26 | 67.3 – 68.4 | 75 | | |
| NMS27 | 63.9 – 68.5 | 70* | | |

Note: 1. L_{eq (30min)} was measured at day-time (0700-1900) on normal weekdays.

3.7.6 Regular night time noise monitoring were conducted on 7, 14, 21 and 28 January 2021 and the results are summarized in **Table 3.5**. Detailed monitoring data are presented in **Appendix G.**

^{2. 70} dB(A) for schools and 65 dB(A) for schools during examination period.

^{3.} The examination schedule was provide in Appendix E.

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Table 3.5 Summary of Night Time Noise Impact Monitoring Results

| Monitoring | L _{eq (15min)} Range, dB(A) | L _{eq (15min)} Limit | L _{eq (15min)} Baseline, |
|------------|--------------------------------------|-------------------------------|-----------------------------------|
| Station | Construction Noise Level | Level, dB(A) | dB(A) |
| NMS1 | 59.1 – 61.0 | 55 | 61.4 |
| NMS2 | 47.5 – 50.3 | 55 | 49.7 |
| NMS3 | 61.6 – 62.7 | 55 | 70.9 |
| NMS4 | 55.2 – 58.7 | 55 | 62.6 |
| NMS5A | 64.9 – 67.8 | 55 | 67.9 |
| NMS6A | 68.3 – 69.7 | 55 | 71.5 |
| NMS7 | 55.0 – 57.4 | 55 | 59.0 |
| NMS8 | 61.7 – 63.9 | 55 | 64.4 |
| NMS9 | 53.8 – 55.0 ^[2] | 55 | 53.5 |
| NMS11 | 50.5 – 54.9 ^[2] | 55 | 53.2 |
| NMS13 | 45.9 – 54.6 ^[2] | 55 | 57.3 |
| NMS14 | 53.5 – 55.0 | 55 | 54.1 |
| NMS15 | 57.0 – 58.3 | 55 | 58.8 |
| NMS16 | 51.4 – 59.4 ^[2] | 55 | 60.1 |
| NMS18 | 57.5 – 60.3 | 55 | 63.2 |
| NMS19 | 60.1 – 61.2 | 55 | 61.7 |
| NMS20 | 55.6 – 57.1 | 55 | 57.7 |
| NMS23 | 58.4 – 59.5 | 55 | 59.9 |
| NMS24 | 51.8 – 58.0 ^[2] | 55 | 58.0 |
| NMS25A | 57.5 – 59.4 | 55 | 59.7 |
| NMS26 | 48.6 – 60.4[2] | 55 | 61.2 |

Note: 1) L_{eq (15min)} was measured at night-time (2300-0700).

- 2) When the Average Measured Noise Level is greater than Limit Level and baseline level, Average Construction Noise Level (CNL) will be applied, where Calculated CNL = Measured Noise Level during operation Baseline
- 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 construction noise monitoring, no exceedance case 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**.

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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 are given in **Appendix M.**
- 4.2.2 No non-compliance of the landscape and visual impact was recorded in the reporting month.

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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**.

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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 7, 14, 21 and 28 January 2021. The site inspection held on 28 January 2021 was joint inspection with the IEC, ER, the Contractor and the ET during the reporting period.
- 6.1.3 All the follow-up actions requested by ET and IEC during the site inspections were completed and 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**.

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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 7, 14, 21 and 28 January 2021 respectively 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 No complaint cases were received during the reporting period.
- 7.2.2 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix L**.

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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

- Provide mitigation measure (e.g. canvas covering) for the stockpile of excavated material to prevent dust impact (Zone 3).
- Contractor was reminded to provide water spray for construction area at Zone 5 to prevent dust spread.
- Provide mitigation measure (e.g. water spraying) to suppress dust emission (RW7).
- The frequency of water spray should be increased to reduce the dust impact (Zone 3).

Construction Noise Impact

• No specific observation was identified in the reporting month.

Water Quality Impact

Clean up the sediment in the desilting tank (TPT408) at Zone 3.

Chemical and Waste Management

- General waste should be cleared at works area B to maintain good site condition.
- Clean up the oil stain with absorbent material and treated it as chemical waste for disposal (RW7).
- Drip tray should be provided for chemicals to prevent chemical leakage.
- Remove stagnant water or oil in the drip tray (RW7).

Land Contamination

No specific observation was identified in the reporting month.

Landscape and Visual Impact

• No specific observation was identified in the reporting month.

General Condition

• No specific observation was identified in the reporting month.

Permit / Licenses

• No specific observation was identified in the reporting month.

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9. FUTURE KEY ISSUES

9.1 Construction Programme for the Next Month

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

- (1) Tree preservation / felling/ pruning/ transplantation in Zone 1, 2, 3, 4 & 5.
- (2) Pre-drill works in Zone 1 & 2.
- (3) Mini pile Works in Zone 1, 4 & 5.
- (4) Backfilling for underground utilities trench in Zone 1 & 2.
- (5) Pile Cap Construction Works in Zone 1, 2 & 3.
- (6) Trial Pits Excavation in Zone 3. 4 & 5.
- (7) Underground utilities detections in Zone 3, 4 & 5.
- (8) Noise Barrier Foundation Works in Zone 3 & 5.
- (9) Lagging wall and Retaining wall in Zone 3.
- (10) Construction/ Diversion of underground utilities in Zone 3.
- (11) Relocation of Traffic Light in Zone 3.
- (12) Soldier Pile Construction Works in Zone 3.
- (13) Pre Bored H Pile Construction Works in Zone 3.
- (14) Pier Construction Works in Zone 3.
- (15) Demolition of Central Median, and Temporary Median Module Installation Works in Zone 3 & 4.
- (16) Demolition of NF40 Footbridge Existing Staircases in Zone 4.
- (17) NF66 Footbridge Footing Construction Works in Zone 4.
- (18) Soil Replacement Works on Slope in 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**.

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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 night time noise monitoring was carried out on 7, 14, 21 and 28 January 2021 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 7, 14, 21 and 28 January 2021. Recommendations on mitigation measures on air quality, chemical and waste management and water were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 10.1.5 No complaint cases were received during the reporting period.

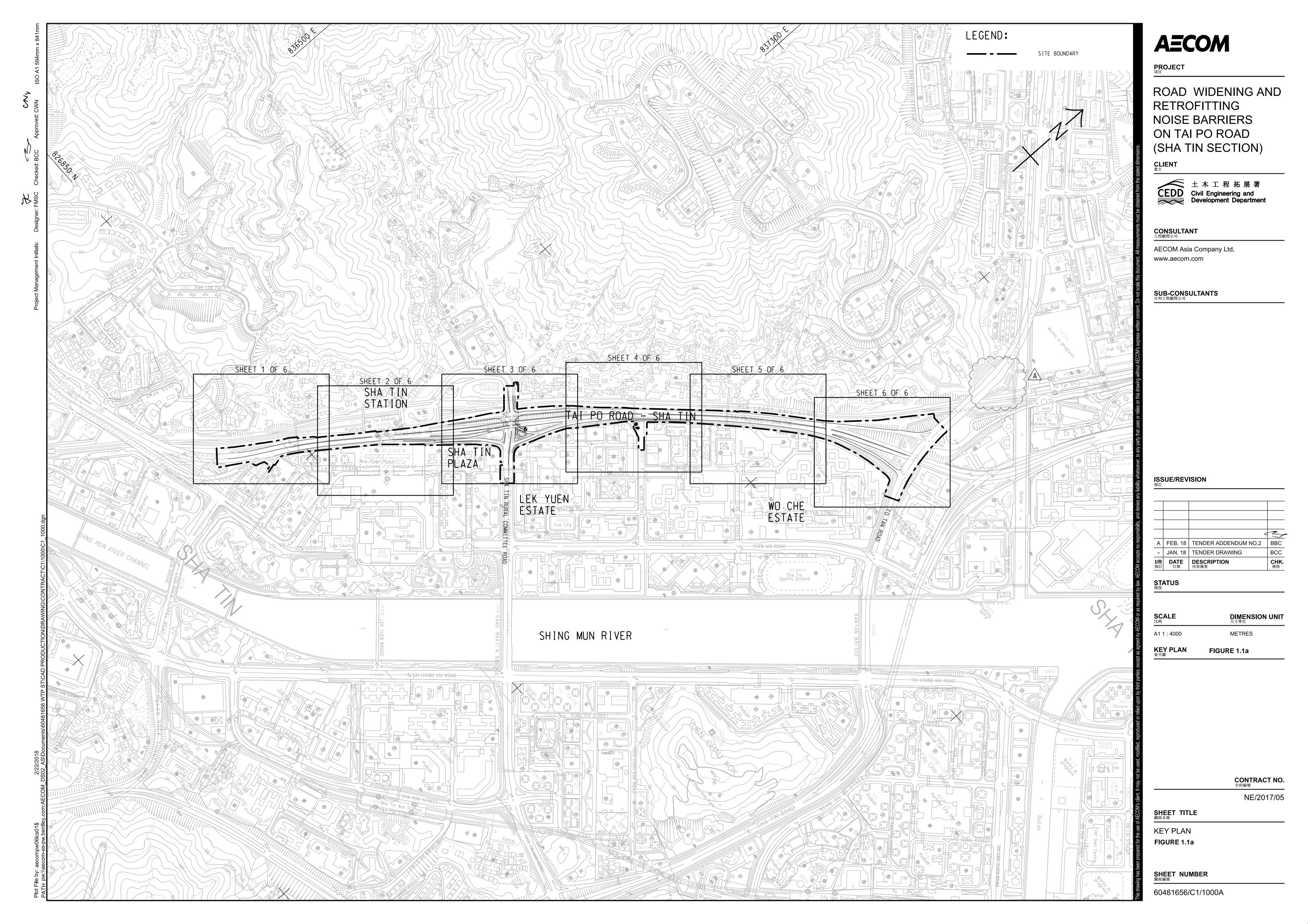
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong.

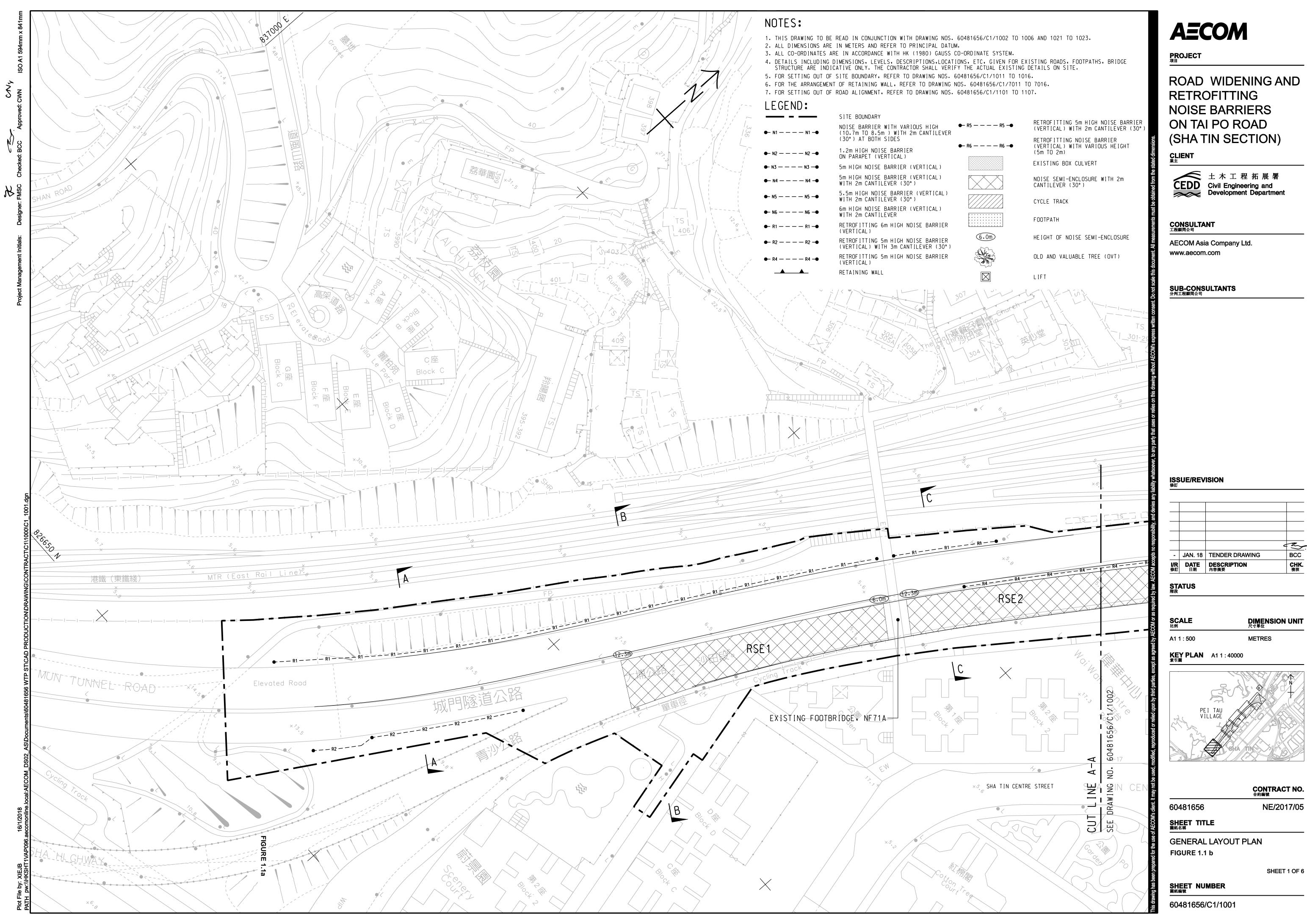
Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com

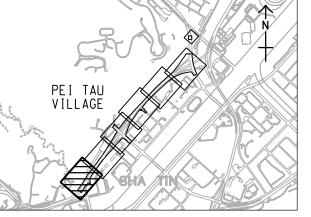


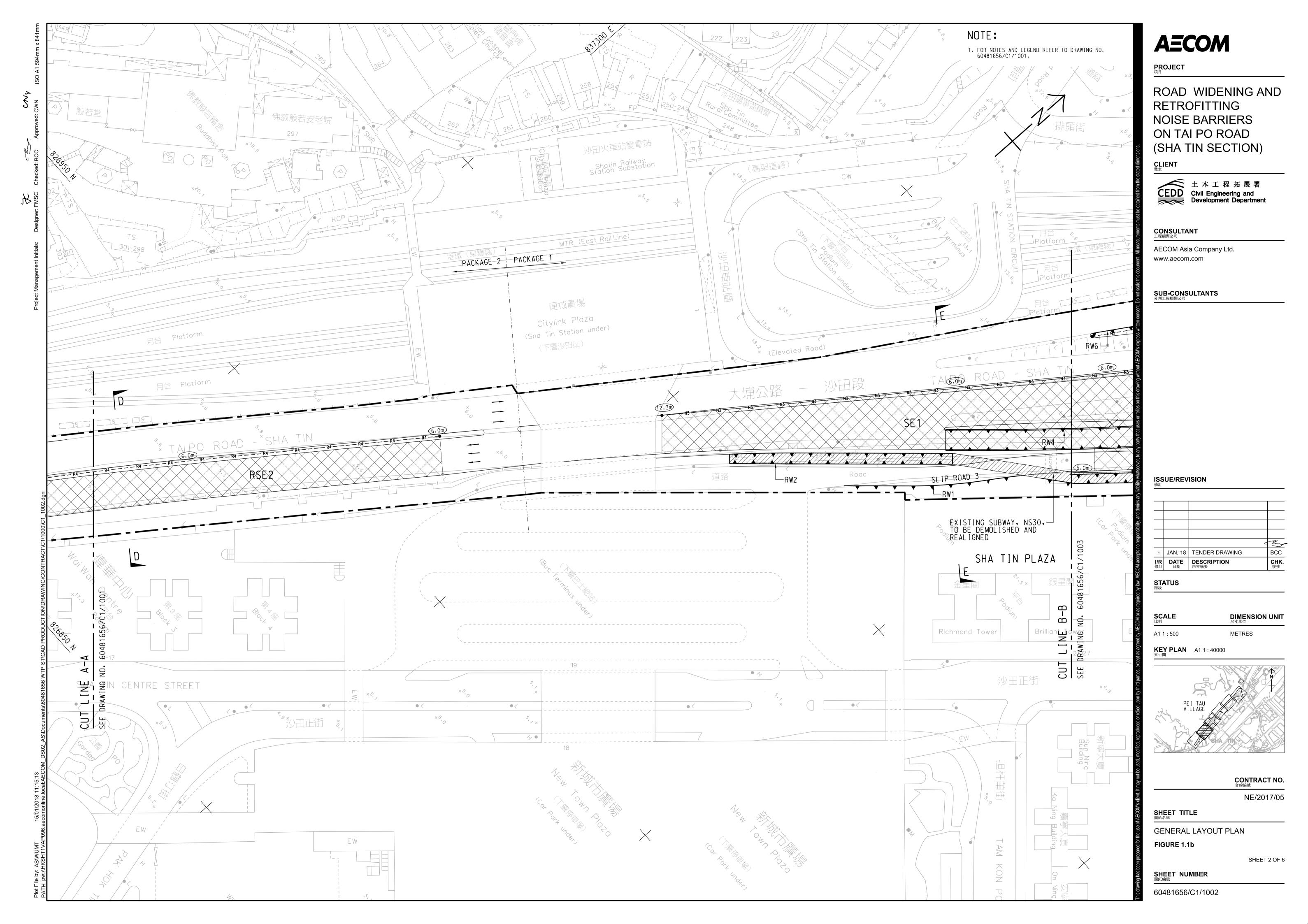
Figure 1

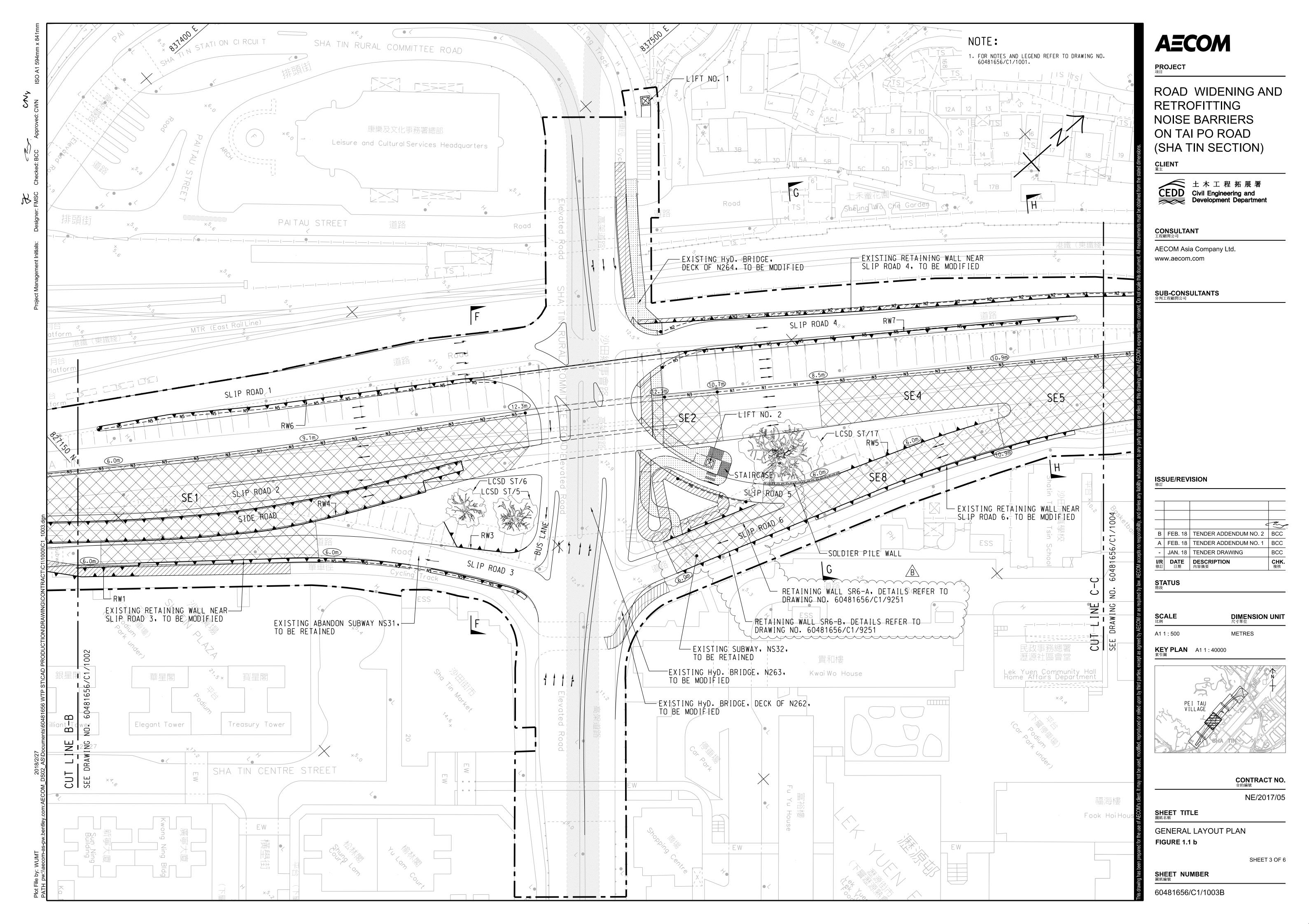
Project General Layout

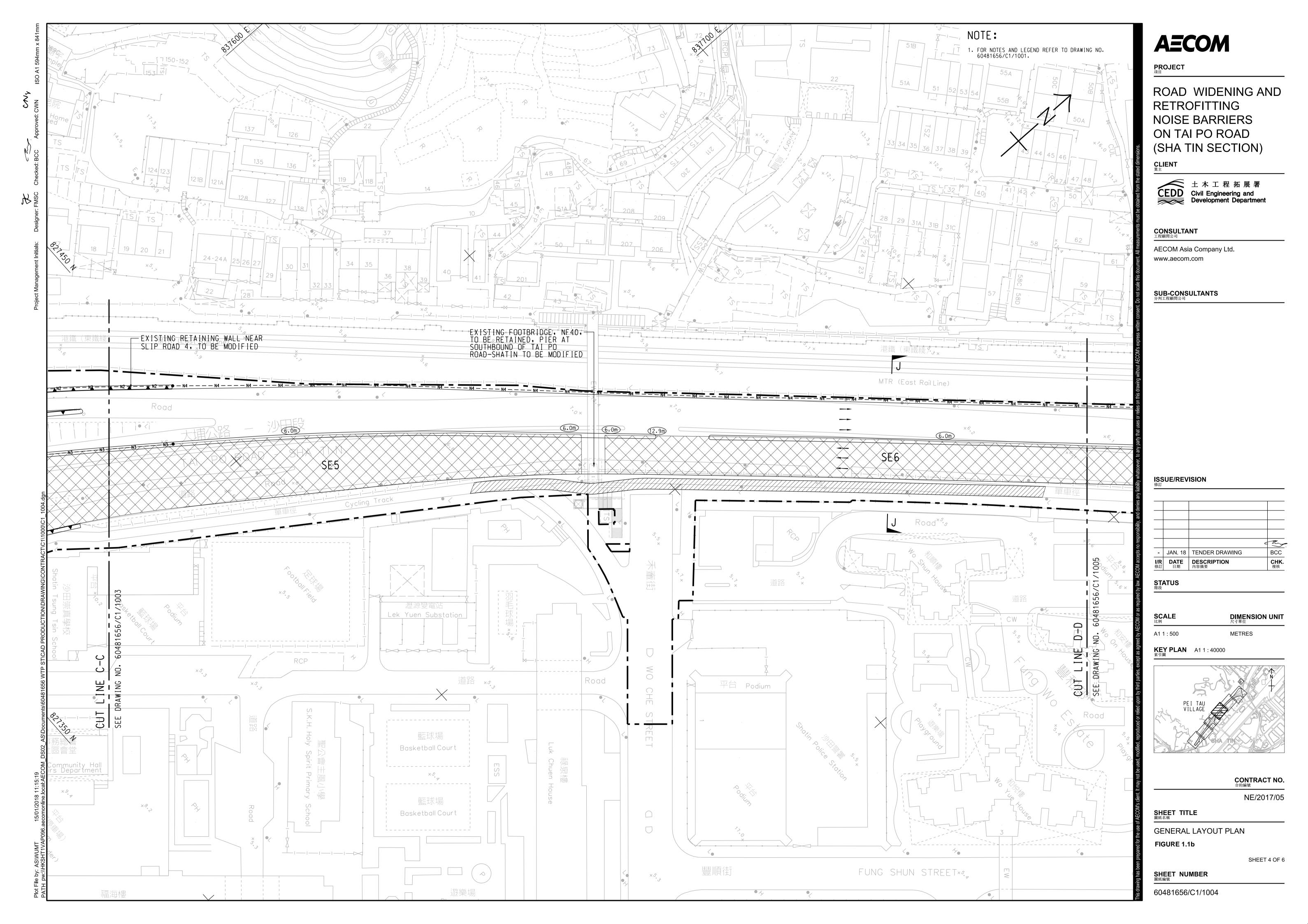


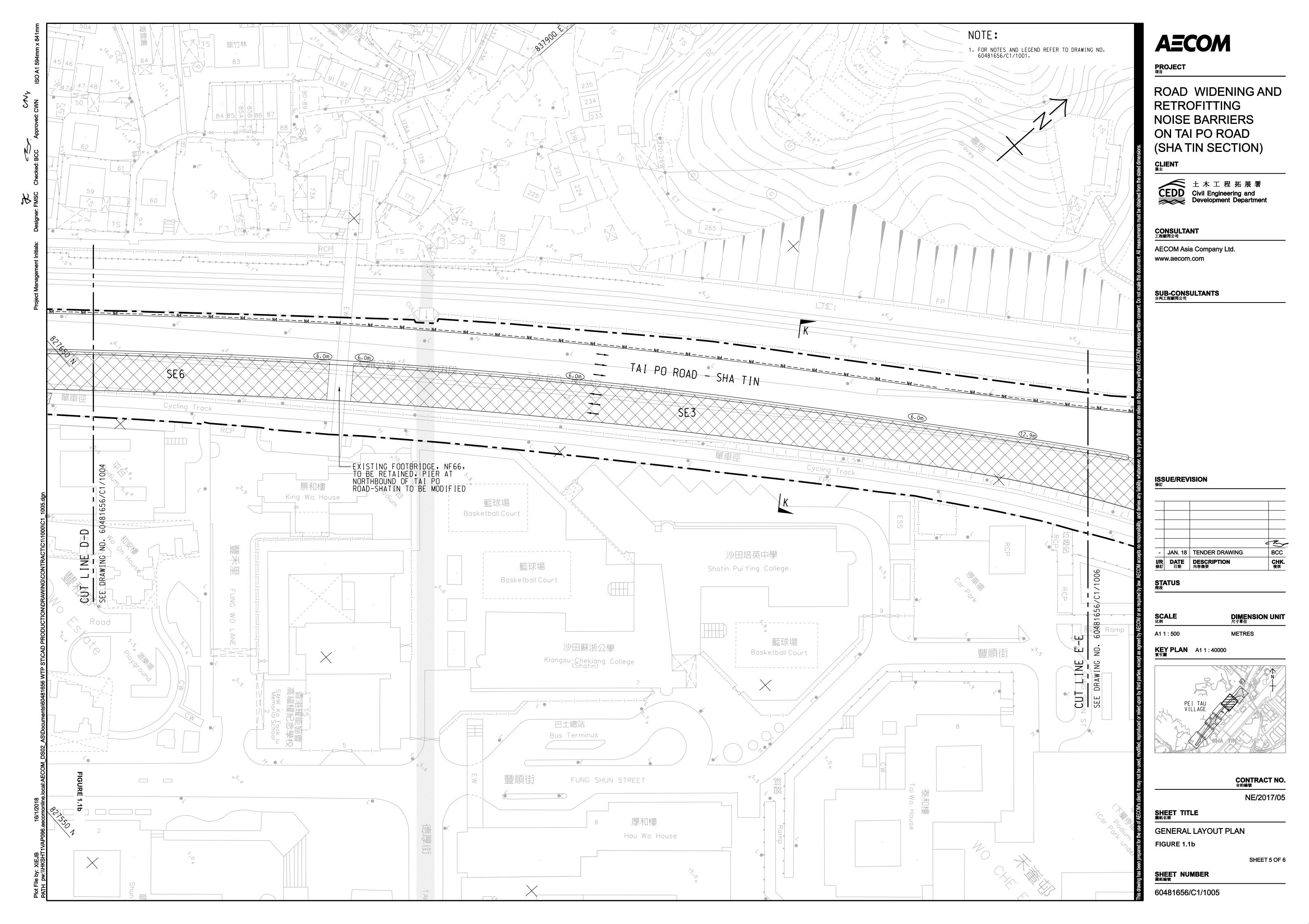


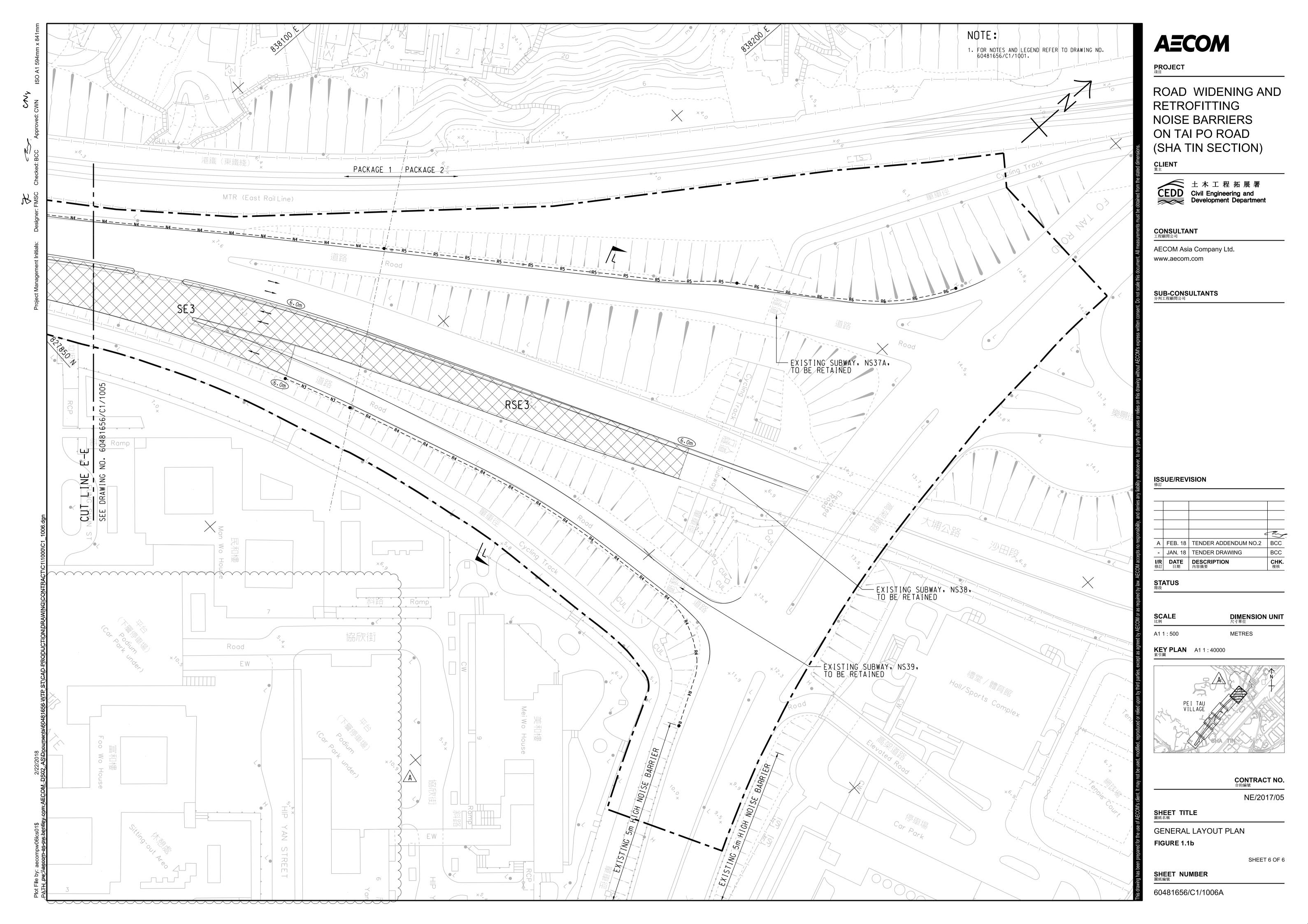












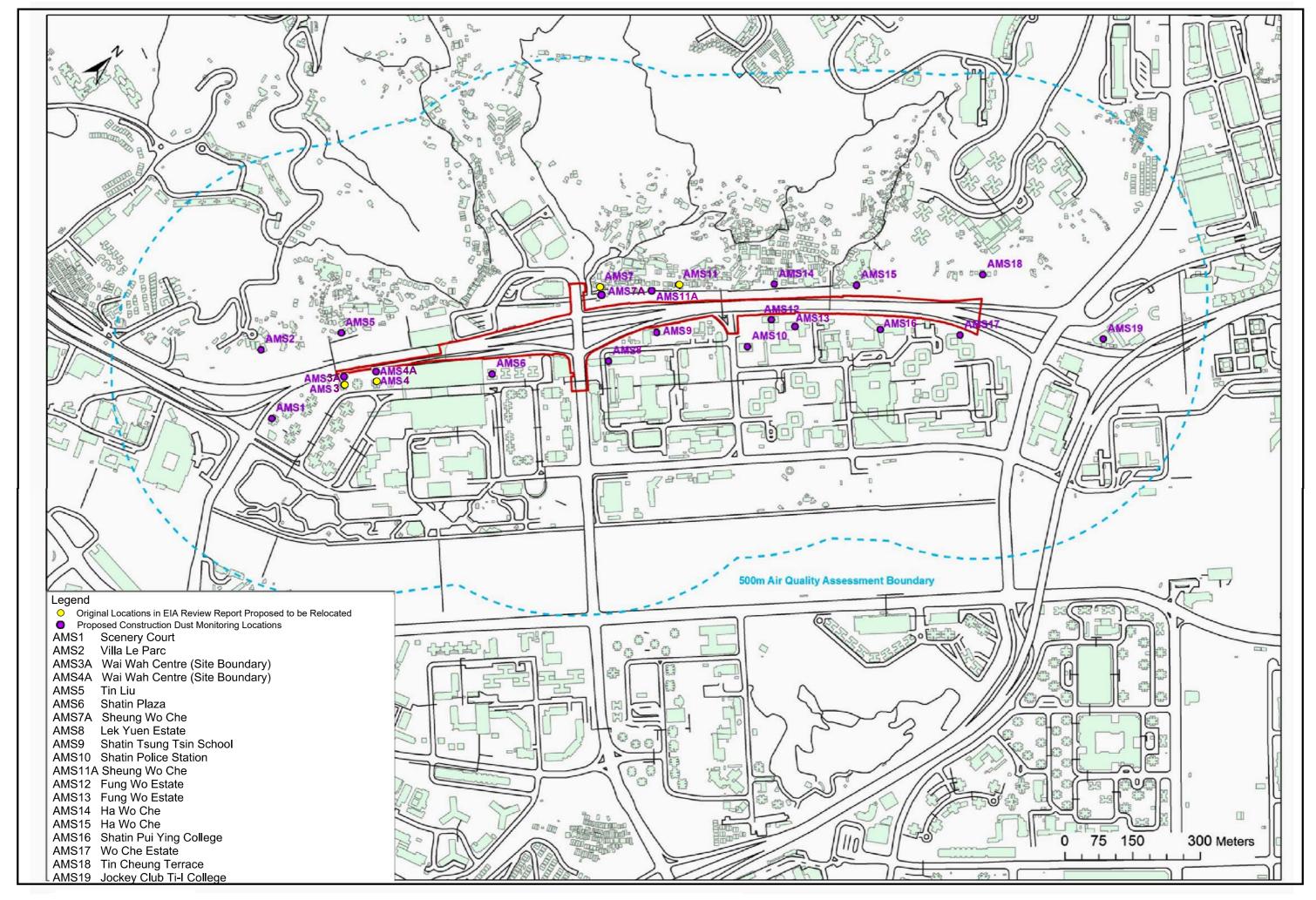
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Figure 2a

Air Monitoring Locations







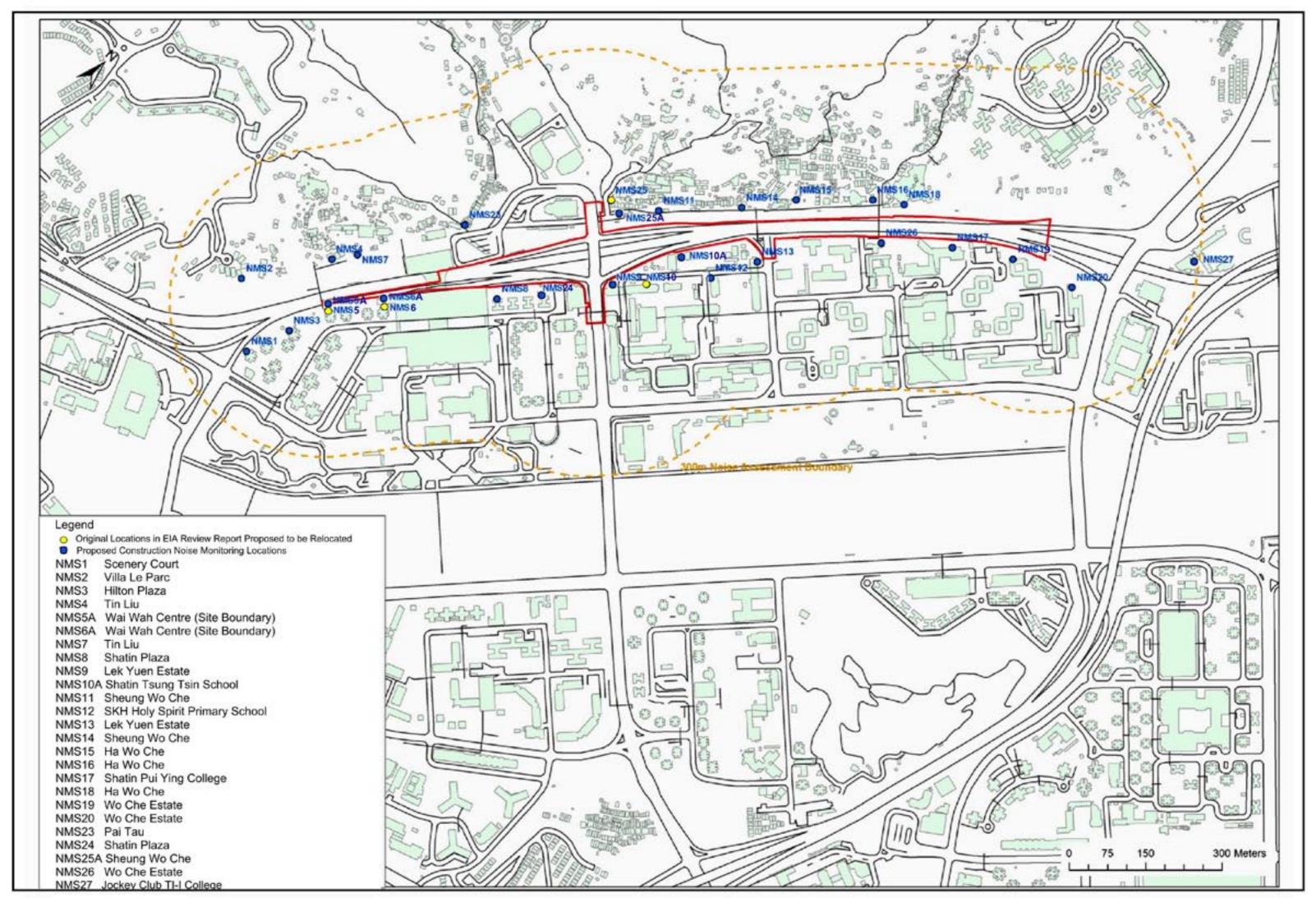
Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong.

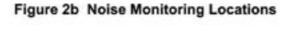
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Figure 2b

Noise Monitoring Locations







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Appendix A

Construction Programme

3 Months Rolling Programme (31/12/20)

Page 1 of 6

Actual Level of Effort

Actual Work

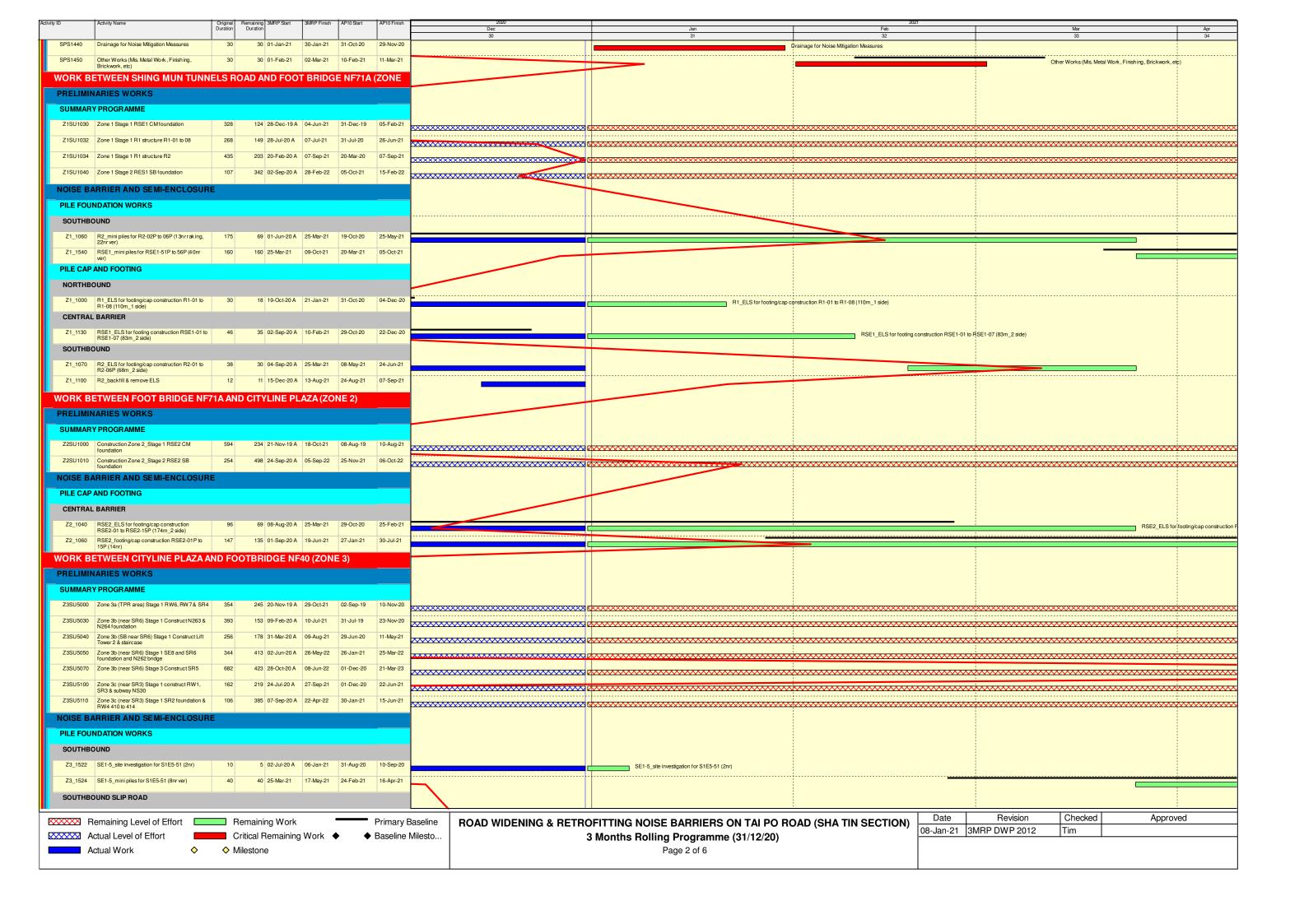
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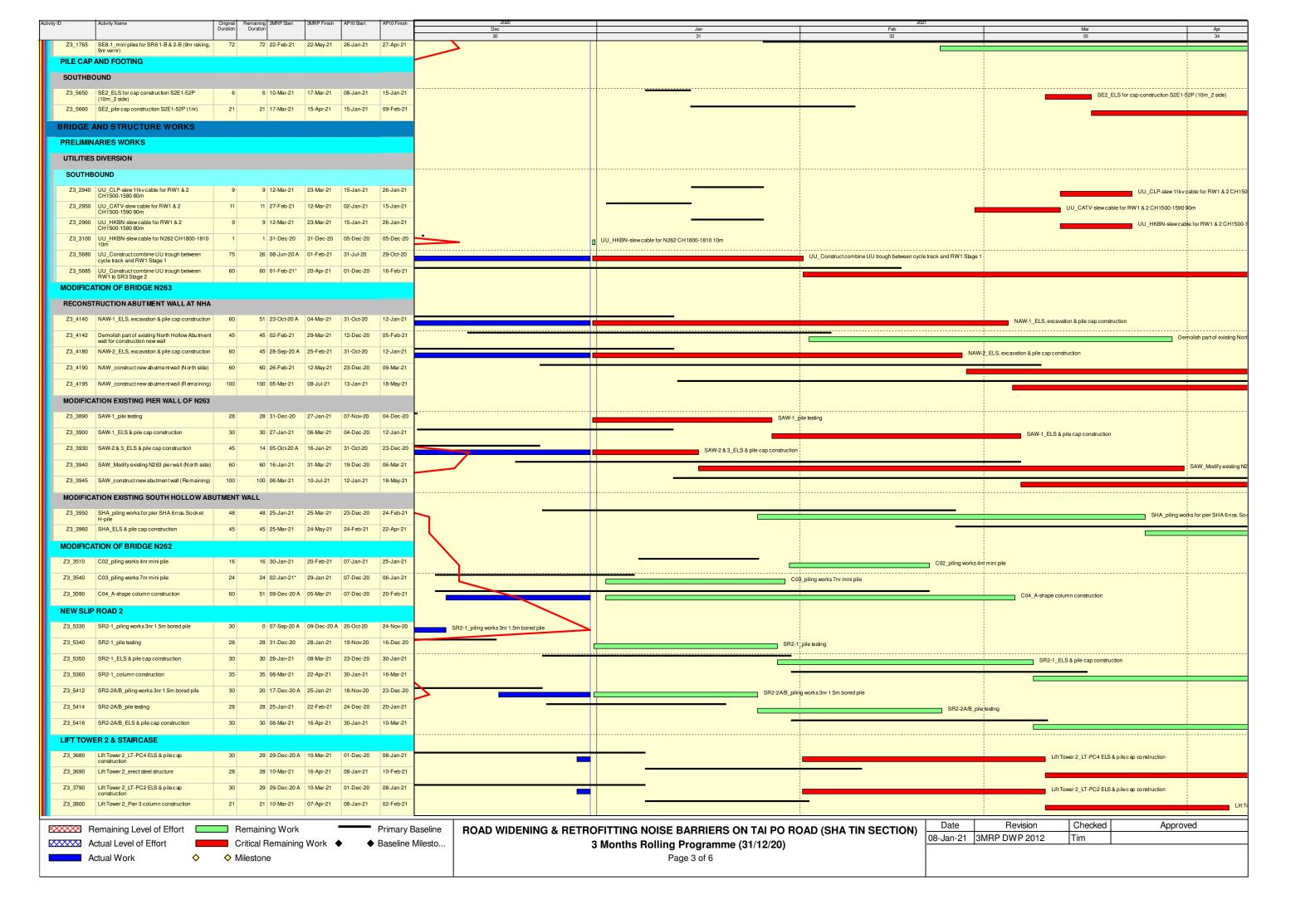
Critical Remaining Work •

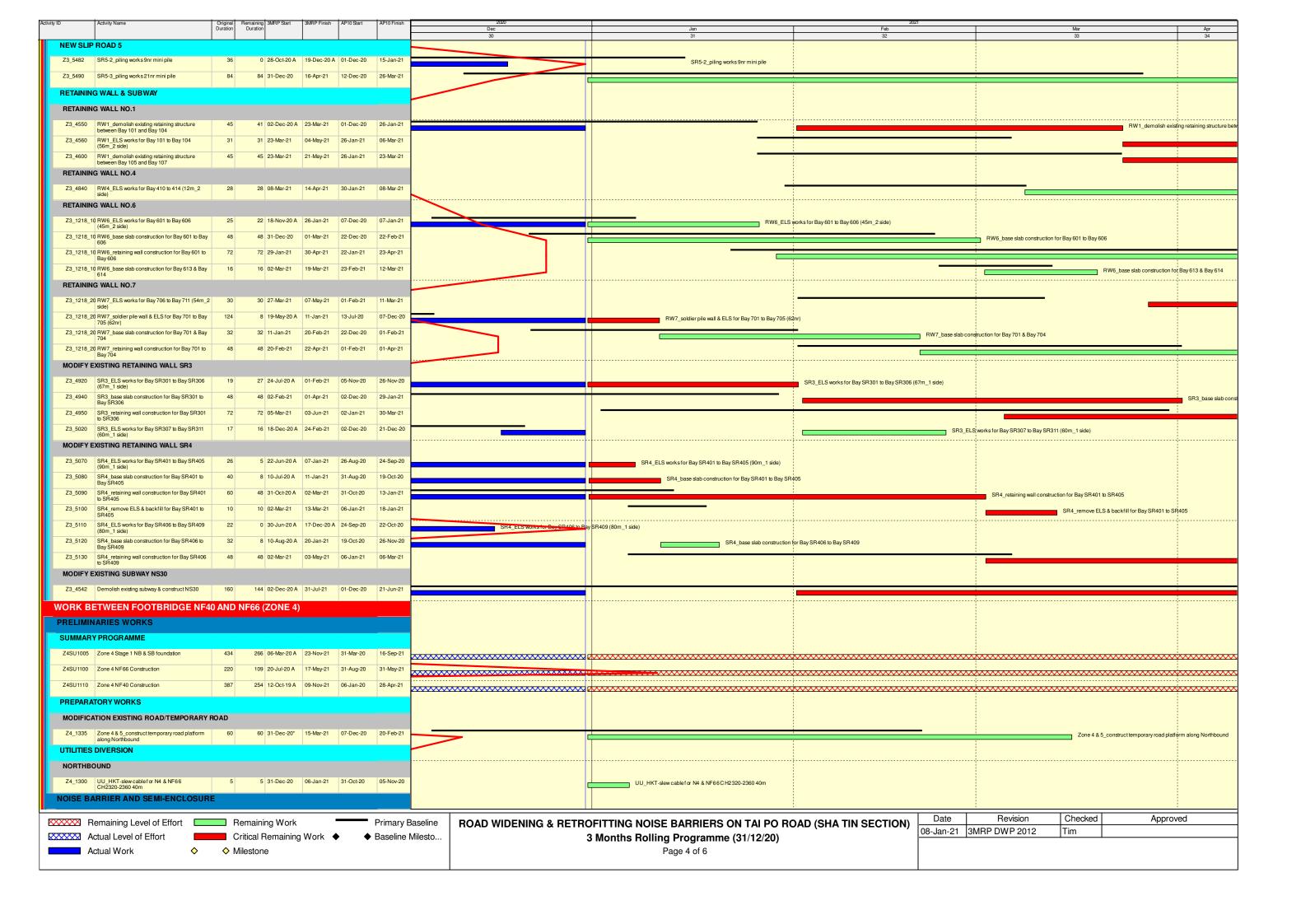
Milestone

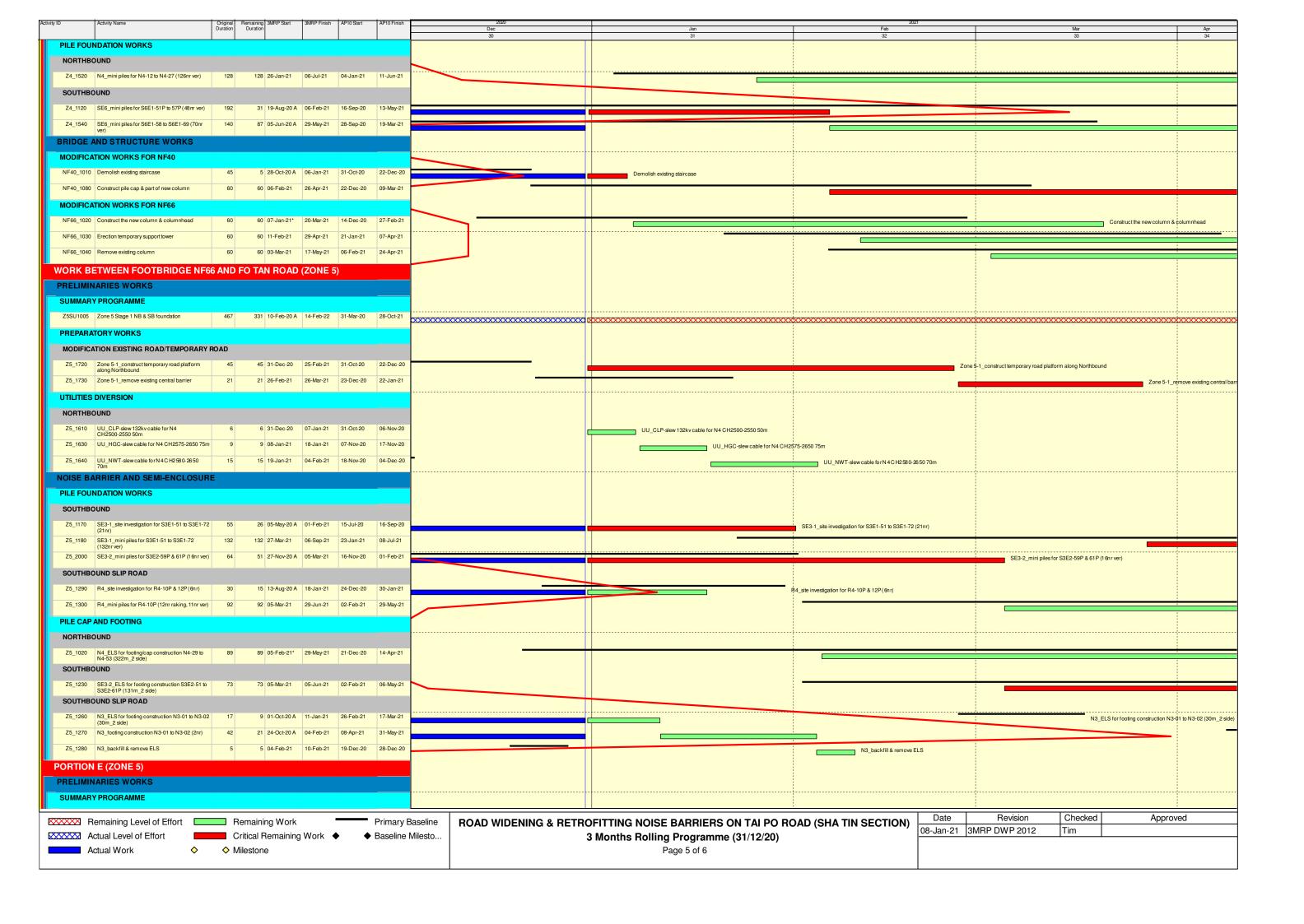
08-Jan-21 3MRP DWP 2012

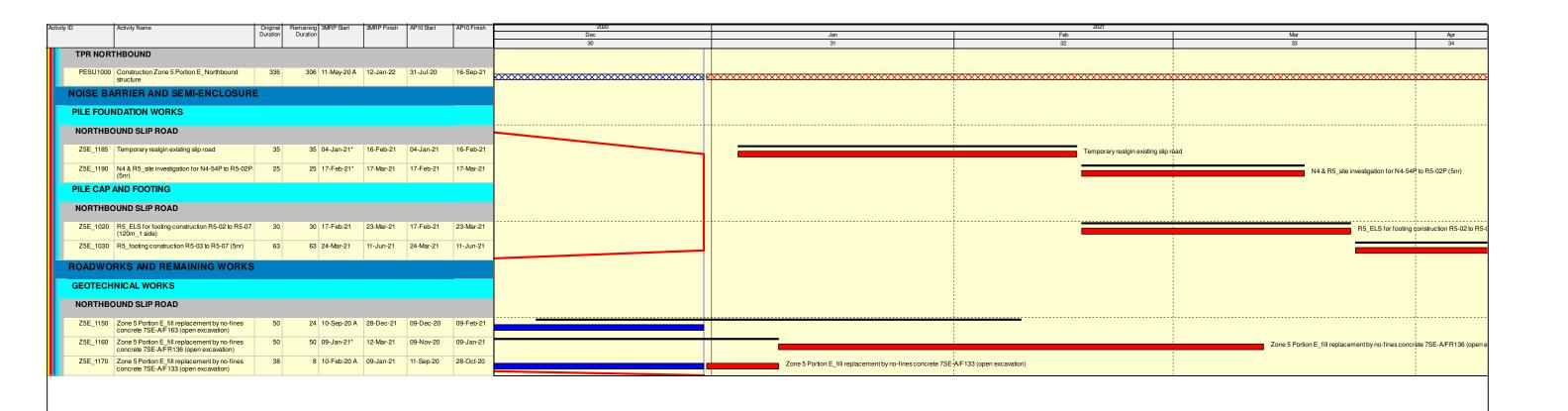
Tim











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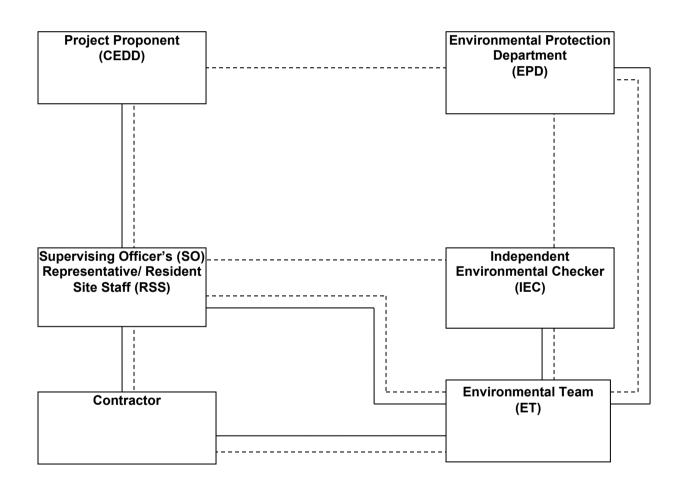


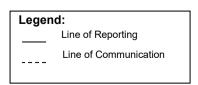
Appendix B

Project Organization Chart

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Appendix C

Action and Limit Levels for Air Quality and Noise

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

| Parameter | Monitoring Station | Action Level (µg/m³) | Limit Level (µg/ m³) |
|-----------|--------------------|-------------------------|-------------------------|
| | AMS 6 | 165 | |
| 24-hr TSP | AMS 7A | 171 | 260 |
| (µg/m³) | AMS 8 | 161 | 200 |
| | AMS 13 | 174 | |
| | AMS 6 | 347 | |
| 1-hr TSP | AMS 7A | 344 | 500 |
| (µg/m³) | AMS 8 | 336 | 500 |
| | AMS 13 | 303 | |

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 NMS16 NMS17* NMS18 NMS18 NMS19 NMS20 NMS20 NMS23 NMS24 NMS25A NMS26 NMS26 NMS27* | When one documented complaint is received | 75 dB(A) |

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

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Appendix D

Calibration Certificates of Monitoring Equipment



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 940891CA201915(2)

Page 1 of 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.

: 761106

Specification Limit

: NA

Next Calibration Date : 13-Aug-2021

Laboratory Information

Description

: Reference balance

Equipment ID.

: R-039-12

Date of Calibration

: 14-Aug-2020

Ambient Temperature : 33 °C

Calibration Location: Calibration Laboratory 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/m³) | Total count for 1 hour | CPM (Count per minute) |
|---------------------------------|------------------------|------------------------|
| 0.0632 | 1555 | 25.92 |
| 0.0687 | 1627 | 27.12 |
| 0.0543 | 1456 | 24.27 |

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation: Concentration $(mg/m^3) = K \times [UUT reading (CPM)], where K = 0.002409$

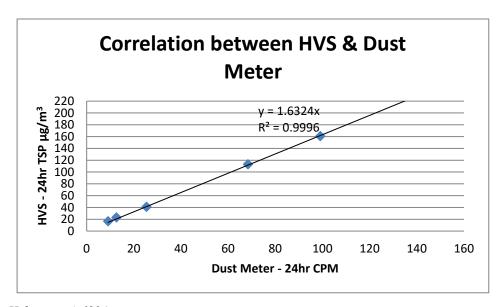
3. Correlation coefficient (r):

Chart Date: 16-9-200 Certified by: CTIVOUR Date: 21-9-2020 CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

Correlation between HVS & Dust Meter

Model: Sibata LD-5R Serial No: 761106

| HVS - 24hr TSP µg/m ³ | 16.56 | 23.11 | 41.02 | 112.97 | 160.87 | 220.44 |
|----------------------------------|-------|-------|-------|--------|--------|--------|
| Dust Meter - 24hr CPM | 9.1 | 12.6 | 25.4 | 68.4 | 99.1 | 135.2 |



K factor = 1.6324



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 940891CA201915

Page 1 of 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.

: 892187

Specification Limit

: NA

Next Calibration Date : 13-Aug-2021

Laboratory Information

Description

: TSP high volume air sampler

Serial no.

: 4350

Date of Calibration

: 14-Aug-2020

Ambient Temperature : 33 °C

Calibration Location: Ma Wan A1 Site Boundary

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:

| outhoritation it | | |
|---------------------------------|------------------------|------------------------|
| Reference concentration (mg/m³) | Total count for 1 hour | CPM (Count per minute) |
| 0.0632 | 1573 | 26.22 |
| 0.0687 | 1608 | 26.80 |
| 0.0543 | 1473 | 24.55 |

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation: Concentration (mg/m³) = K x [UUT reading (CPM)], where K = 0.002401

3. Correlation coefficient (r):

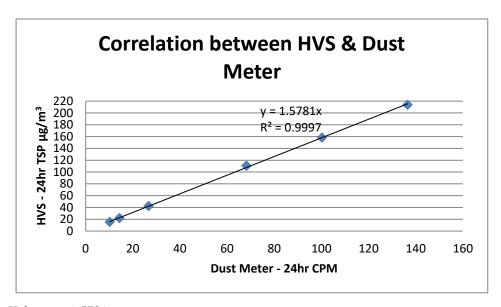
0.9908

Chang Date: 16-9-2020 Certified by: 17 Jung Date: 21-9-2020 Checked by: CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

Correlation between HVS & Dust Meter

Model: Sibata LD-5R Serial No: 892187

| HVS - 24hr TSP µg/m ³ | 15.66 | 22.08 | 42.33 | 110.54 | 158.23 | 213.93 |
|----------------------------------|-------|-------|-------|--------|--------|--------|
| Dust Meter - 24hr CPM | 10.2 | 14.3 | 26.7 | 68.2 | 100.2 | 136.5 |



K factor = 1.5781



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 940891CA201915(1)

Page 1 of 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.

: 892189

Specification Limit

: NA

Next Calibration Date : 13-Aug-2021

Laboratory Information

Description

: TSP high volume air sampler

Serial no.

: 4350

Date of Calibration : 14-Aug-2020

Ambient Temperature : 33 °C

Calibration Location: Ma Wan A1 Site Boundary

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/m³) | Total count for 1 hour | CPM (Count per minute) |
|---------------------------------|------------------------|------------------------|
| 0.0632 | 1507 | 25.12 |
| 0.0687 | 1541 | 25.68 |
| 0.0543 | 1458 | 24.30 |

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.

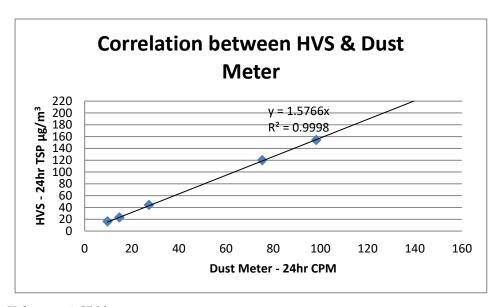
2. The interpolation equation: Concentration $(mg/m^3) = K \times [UUT reading (CPM)], where K = 0.002479$

3. Correlation coefficient (r):

Correlation between HVS & Dust Meter

Model: Sibata LD-5R Serial No: 892189

| HVS - 24hr TSP μg/m ³ | 16.45 | 23.11 | 44.23 | 120.03 | 154.34 | 220.37 |
|----------------------------------|-------|-------|-------|--------|--------|--------|
| Dust Meter - 24hr CPM | 9.7 | 14.7 | 27.3 | 75.3 | 98.2 | 140.2 |



K factor = 1.5766



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 940891CA202730(1)

Page 1 of 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.

: 761105

Specification Limit

: NA

Next Calibration Date : 22-Nov-2021

Laboratory Information

Description

: 1. Balance

2. TSP high volume air sampler

Equipment ID. / Serial no.: 1. C-065-9

2.4350

Date of Calibration : 23-Nov-2020

Ambient Temperature : 25 ± 10 °C

Calibration Location : General Chemical Laboratory of FTS and Ma Wan A1 Site Boundary

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/m³) | Total count for 1 hour | CPM (Count per minute) |
|---------------------------------|------------------------|------------------------|
| 0.0915 | 3647 | 60.78 |
| 0.0469 | 3027 | 50.45 |
| 0.1172 | 3861 | 64.35 |

Remarks:

1. The equipment being used in this calibration is traceable to recognized National Standards.

2. The interpolation equation: Concentration $(mg/m^3) = K \times [UUT reading (CPM)], where K = 0.001456$

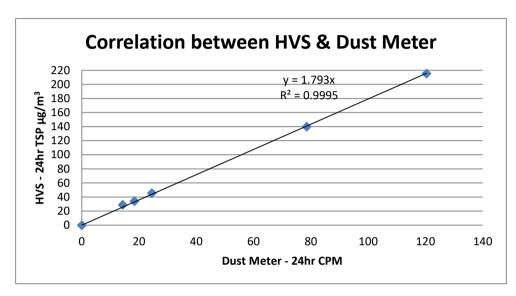
3. Correlation coefficient (r): 0.9928

15-12-2020 Certified by: 1 Tours Date: 12-7070 Date: CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)

Correlation between HVS & Dust Meter

Model: Sibata LD-5R Serial No: 761105

| HVS - 24hr TSP μg/m ³ | 28.99 | 34.06 | 45.57 | 139.89 | 215.48 |
|----------------------------------|-------|-------|-------|--------|--------|
| Dust Meter - 24hr CPM | 14.3 | 18.4 | 24.5 | 78.51 | 120.36 |



K factor = 1.793





Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 203258CA202751 Page 1 of 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 CEL-63X CE-251 CEL-495 Model No. : 1488271 01910 004065 Serial No.

N-52 Equipment ID

Next Calibration Date 21-Dec-2021

EN 61672-1: 2003 Class 1 Specification Limit

Laboratory Information

Details of Reference Equipment -

B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting) Description

Equipment ID. : R-108-1 Date of Calibration : 22-Dec-2020

20±2 °C Calibration Location: Calibration Laboratory of FTS Ambient Temperature : Relative Humidity <80% R.H. Method Used : By direct comparison

Calibration Results:

| Parame | ters | Mean Value (dB) | Specific | ation | Limit(dB) |
|---------------------------------|-------------|-----------------|----------|-------|-----------|
| | 4000Hz | 2.1 | 2.6 | to | -0.6 |
| A-weigthing | 2000Hz | 1.4 | 2.8 | to | -0.4 |
| | 1000Hz | 0.0 | 1.1 | to | -1.1 |
| | 500Hz | -3.5 | -1.8 | to | -4.6 |
| frequency response | 250Hz | -8.8 | -7.2 | to | -10.0 |
| | 125Hz | -16.3 | -14.6 | to | -17.6 |
| | 63Hz | -26.3 | -24.7 | to | -27.7 |
| | 31.5Hz | -39.2 | -37.4 | to | -41.4 |
| Differential level linearity | 94dB-104dB | 0.0 | | ± 0.6 | 3 |
| | 104dB-114dB | 0.0 | | ± 0.6 | 3 |

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 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.

William Date: 28-12-2020 Certified by: Thouse Date: 28-12-2020 Checked by: CA-R-297 (22/07/2009) Leung Kwok Tai (Assistant Manager)



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 203258CA202083

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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

Model No.

Serial No.

Meter Microphone Preamplifier CEL-63X CE-251 CEL-495 1488272 03392 003921

Equipment ID

N/A

Next Calibration Date

04-Oct-2021

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 Calibration : 05-Oct-2020

Calibration Location: Calibration Laboratory of FTS

Ambient Temperature :

20±2 °C

Method Used

: By direct comparison

Relative Humidity

<80% R.H.

Calibration Results:

| Parame | ters | Mean Value (dB) | Specific | Specification Limit(dB) | | | |
|--------------------------------------|-------------|-----------------|----------|-------------------------|-------|--|--|
| | 4000Hz | 0.7 | 2.6 | to | -0.6 | | |
| A-weigthing frequency response | 2000Hz | 1.1 | 2.8 | to | -0.4 | | |
| | 1000Hz | 0.8 | 1.1 | to | -1.1 | | |
| | 500Hz | -1.9 | -1.8 | to | -4.6 | | |
| | 250Hz | -7.2 | -7.2 | to | -10.0 | | |
| | 125Hz | -15.0 | -14.6 | to | -17.6 | | |
| | 63Hz | -26.3 | -24.7 | to | -27.7 | | |
| | 31.5Hz | -41.4 | -37.4 | to | -41.4 | | |
| Differential level linearity | 94dB-104dB | 0.1 | | ± 0.6 |). | | |
| | 104dB-114dB | 0.0 | | ± 0.6 | 3 | | |

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 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 : | Lilliam | Date : | 7-10-2020 | Certified by : _ | & To Zeur a | Date: | 8-10-2020 |
|-----------------------|---------|--------|-----------|------------------|--------------------|------------|-----------|
| CA-R-297 (22/07/2009) | | | | Leung I | Kwok Tai (Assista) | nt Manager |) |



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 203258CA202302(2)

Page 1 of 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

Model No. Serial No.

Meter Microphone CEL-63X 1488304

Preamplifier CEL-495 002752

Equipment ID

N-62

Next Calibration Date

29-Oct-2021

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)

CE-251

03876

Equipment ID. :

R-108-1

Date of Calibration : 30-Oct-2020

Calibration Location: Calibration Laboratory of FTS

Ambient Temperature :

20+2 °C

Method Used

: By direct comparison

Relative Humidity

<80% R.H.

Calibration Results:

| Parame | ters | Mean Value (dB) | Specific | ation | Limit(dB) |
|--------------------|-------------|-----------------|----------|-------|-----------|
| | 4000Hz | 1.5 | 2.6 | to | -0.6 |
| | 2000Hz | 1.3 | 2.8 | to | -0.4 |
| | 1000Hz | -0.1 | 1.1 | to | -1.1 |
| A-weigthing | 500Hz | -3.5 | | to | -4.6 |
| frequency response | 250Hz | 250Hz -8.9 | | to | -10.0 |
| <u>.</u> | 125Hz | -16.4 | -14.6 | to | -17.6 |
| | 63Hz | -26.4 | -24.7 | to | -27.7 |
| | 31.5Hz | -39.4 | -37.4 | to | -41.4 |
| Differential level | 94dB-104dB | 0.0 | | ± 0.6 | 3 |
| linearity | 104dB-114dB | 0.0 | | ± 0.6 | 3 |

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.
- 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 : | Lillian | _Date : . | 4-11-2020 | _Certified by : | K.T. Loung | _ Date : <u>4 - / / -</u> | nor. |
|----------------------|---------|-----------|-----------|-----------------|-------------------|---------------------------|------|
| CA-R-297 (22/07/2009 | 9) | | | Leun | Kwok Tai (Assista | nt Manager) | |





Fugro Development Centre

5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 203258CA202146(2)

Page 1 of 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.

2383707

Equipment ID

N/A

Next Calibration Date : 14-Oct-2021

Specification Limit

EN 60942: 2003 Class 1

Laboratory Information

Details of Calibration Equipment

Description

Reference Sound level meter

Equipment ID. :

R-119-1

Date of Calibration:

15-Oct-2020

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 | -0.1 dB | 10.4dD |
| 114dB | -0.2 dB | ±0.4dB |

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 : | Lilliam | Date :_ | 19-10-2020 | Certified by : | K.T. Teun | Date :_ | 19-10-2020 |
|---------------------|---------|---------|------------|----------------|--------------------|-----------|------------|
| CA-R-297 (22/07/200 | 9) | | | Leun | g Kwok Tai (Assist | ant Manag | er) |



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 203258CA201298(1)

Page 1 of 1

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.

2383886

Equipment ID

N/A

Next Calibration Date :

13-Jul-2021

Specification Limit

EN 60942: 2003 Type 1

Laboratory Information

Description

Reference Sound level meter

Equipment ID. :

R-119-1

Date of Calibration:

14-Jul-2020

Ambient Temperature: 20±2 °C

Calibration Location: Calibration Laboratory of FTS

Method Used :

By direct comparison

Calibration Results:

| Parameters (Setting of UUT) 94dB | Mean Value (error of measurement) | Specification Limit(dB) |
|----------------------------------|-----------------------------------|-------------------------|
| 94dB | -0.1 dB | ±0.4dB |
| 114dB | -0.1 dB | 10.400 |

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 does comply with the specification limit.
- 4. 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 : | William | Date: >1-7- 2020 | _Certified by :_ | KT. Jeuns | Date: <u>>1-7</u> | -2000 |
|----------------------|---------|------------------|------------------|------------------|----------------------|-------|
| CA-R-297 (22/07/2009 | 9) | | Leung | Kwok Tai (Assist | ant Manager) | |



Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

Report no.: 183057CA200894(2)

Page 1 of 1

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.

4358289

Equipment ID

N/A

Next Calibration Date :

14-Jun-2021

Specification Limit

EN 60942: 2003 Type 1

Laboratory Information

Description

Reference Sound level meter

Equipment ID.

R-119-1

Date of Calibration:

15-Jun-2020

Ambient Temperature: 22

°C

Calibration Location:

Calibration Laboratory of FTS

Method Used

By direct comparison

Calibration Results:

| Parameters (Setting of UUT) | Mean Value (error of measurement) | Specification Limit(dB) |
|-----------------------------|-----------------------------------|-------------------------|
| 94dB | -0.3 dB | ±0.4dB |
| 114dB | -0.3 dB | ±0.40B |

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 does comply with the specification limit.
- 4. 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 : | William | Date : | 20-6-2020 | Certified by :_ | p I Leung | _Date:_ | 20- | 6-2020 |
|--------------------|---------|--------|-----------|-----------------|-------------------|-----------|------|--------|
| CA-R-297 (22/07/20 | 09) | | | Leun | g Kwok Tai (Assis | ant Manag | ger) | |

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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

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|--|-------------------------------------|--|-----------------------------------|--------|----------|
| | | 1 | 2 | 3 | 4 | . 5 | 6 |
| | | | | AMS5 Tin Liu | | | |
| | | | | AMS8 Lek Yuen Estate | | | |
| | | | | AMS11A Sheung Wo Che | | | |
| | | | | AMS12 Fung Wo Estate | | | |
| | | | | NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, | | | |
| | | | | NMS 6A, NMS 7, NMS 15, NMS 16, NMS | | | |
| | | | | | NMS 20, NMS 24, NMS 25A, NMS 26 | | |
| | 7 | 8 | 9 | 10 | | 12 | 13 |
| | | | AMS5 Tin Liu | | AMS5 Tin Liu | | |
| | | | AMS8 Lek Yuen Estate | | AMS8 Lek Yuen Estate | | |
| | | | AMS11A Sheung Wo Che | | AMS11A Sheung Wo Che | | |
| | | | AMS12 Fung Wo Estate | | AMS12 Fung Wo Estate | | |
| | | | NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, | | | | |
| | | | NMS 6A, NMS 7, NMS 15, NMS 16, NMS | | | | |
| | 4.0 | | 18,NMS 23, NMS 27 | NMS 20, NMS 24, NMS 25A, NMS 26 | 10 | 10 | 20 |
| | 14 | 15 | 16 | = 7 | 18 | 19 | 20 |
| | | | | AMS5 Tin Liu | | | |
| | | | | AMS8 Lek Yuen Estate | | | |
| Feb-21 | | | | AMS11A Sheung Wo Che AMS12 Fung Wo Estate | | | |
| | | | | | NMS 8, NMS9, NMS 10A, NMS 11, NMS | | |
| | | | | NMS 6A, NMS 7, NMS 15, NMS 16, NMS | | | |
| | | | | 18,NMS 23, NMS 27 | NMS 20, NMS 24, NMS 25A, NMS 26 | | |
| | 2.1 | 22 | 23 | 24 | | 26 | 27 |
| | 21 | 120 | AMS5 Tin Liu | 24 | 25 | 20 | 27 |
| | | | AMS8 Lek Yuen Estate | | | | |
| | | | AMS11A Sheung Wo Che | | | | |
| | | | AMS12 Fung Wo Estate | | | | |
| | | | NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, | NMS 8. NMS9. NMS 10A. NMS 11. NMS | | | |
| | | | NMS 6A, NMS 7, NMS 15, NMS 16, NMS | | | | |
| | | | | NMS 20, NMS 24, NMS 25A, NMS 26 | | | |
| | 28 | | | | | | |
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| | | | | | | | |
| | | | | | | | |
| D 1 | | nitoring may be subjected to change due to any | | | | | |

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 Feb 2021 are north, north east and east.
- 4. According to the Contractor, the anticipated major construction activities in the reporting month includes:
- (1) Tree preservation / felling/ pruning/ transplantation in Zone 1, 3, 4 & 5.
- (2) Mini Pile Construction Works in Zone 1,2, 4 & 5.
- (3) Noise Barrier Foundation Works in Zone 1, 2, 3, 4 & 5.
- (4) Construction / Diversion of Underground Utilities in Zone1, 2, and 3.
- (5) Sheet Pile Removal in Zone 2.
- (6) Trial pits excavation in Zone 3, 4 & 5.
- (7) Retaining Wall Construction Works and Demolition of Existing Parapet in Zone 3.
- (8) Bored Pile Construction Works and Pre Drilling Works in Zone 3.
- (9) Lagging wall and Retaining wall in Zone 3.
- (10) Sheet Piling Works in Zone 3.
- (11) Superstructure Works for N262 widening in Zone 3.
- (12) Pre Drilling Works in Zone 3.
- (13) Mini Pile Works / Pre Bore H Pile Works in Zone 3.
- (14) NF40 Footbridge Pile Cap and Column Construction Works in Zone 4.
- (15) NF66 Footbridge Column Construction Works in Zone 4.
- (16) Soil Replacement Works on Slope in Zone 5.
- (17) Lane Shifting Works in Zone 4 & 5.
- (18) Temporary Road Construction Works in Zone 5.

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|--|-------------------------------------|---|-------------------------------------|-------------------------------------|----------------------------------|
| | • | | - | | - | 1 | 2 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | AMS6 Shatin Plaza | | | | |
| | | | AMS7A Sheung Wo Che | | | | |
| | | | AMS8 Lek Yuen Estate | | | | |
| | | | AMS13 Fung Wo Estate | N (G C N (GC N (G AC) N (G AC) N (G AC) | | | |
| | | | NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, | | | | |
| | | | NMS 6A, NMS 7, NMS 15, NMS 16, NMS | | | | |
| | 1/ | 11 | 18,NMS 23, NMS 27 | NMS 20, NMS 24, NMS 25A, NMS 26 | 14 | 15 | 16 |
| | 10 | AMS6 Shatin Plaza | 12 | 13 | 14 | 15 | AMS6 Shatin Plaza |
| | | AMS7A Sheung Wo Che | | | | | AMS7A Sheung Wo Che |
| | | AMS8 Lek Yuen Estate | | | | | AMS8 Lek Yuen Estate |
| Jan-21 | | AMS13 Fung Wo Estate | | | | | AMS13 Fung Wo Estate |
| | | NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, | NMS 8 NMS0 NMS 104 NMS 11 NMS | | | | AWS13 Fully WO Estate |
| | | NMS 6A, NMS 7, NMS 15, NMS 16, NMS | | | | | |
| | | | NMS 20, NMS 24, NMS 25A, NMS 26 | | | | |
| | 17 | 18 | | 20 | 21 | 22 | 23 |
| | | | | | | AMS6 Shatin Plaza | |
| | | | | | | AMS7A Sheung Wo Che | |
| | | | | | | AMS8 Lek Yuen Estate | |
| | | | | | | AMS13 Fung Wo Estate | |
| | | | | | | NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, | NMS 8, NMS9, NMS 10A, NMS 11, |
| | | | | | | NMS 6A, NMS 7, NMS 15, NMS 16, NMS | |
| | | | | | | 18,NMS 23, NMS 27 | NMS 19, NMS 20, NMS 24, NMS 25A, |
| | 24 | 25 | 26 | 27 | | 29 | 30 |
| | | | | | AMS6 Shatin Plaza | | |
| | | | | | AMS7A Sheung Wo Che | | |
| | | | | | AMS8 Lek Yuen Estate | | |
| | | | | | AMS13 Fung Wo Estate | | |
| | | | | | NMS 1, NMS 2, NMS 3, NMS 4, NMS 5A, | | |
| | | | | | NMS 6A, NMS 7, NMS 15, NMS 16, NMS | | |
| | | nitoring may be subjected to change due to any | | | 18,NMS 23, NMS 27 | NMS 20, NMS 24, NMS 25A, NMS 26 | |

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 Jan 2020 are north, and north east.
- 4. According to the Contractor, the anticipated major construction activities in the reporting month includes:
- (1) Tree preservation / felling/ pruning/ transplantation in Zone 1, 3, 4 & 5.
- (2) Mini Pile Works in Zone 1,2, 4 & 5.
- (3) Noise Barrier Footing and Pile Cap Construction Worksin Zone 1, 2, 3, 4 & 5.
- (4) Trial Pits Excavation in Zone 3, 4 & 5.
- (5) Construction / Diversion of Underground Utilities in Zone1, 2, 3, 4 & 5.
- (6) Trial pits excavation in Zone 3, 4 & 5.
- (7) Retaining Wall Construction Works and Demolition of Existing Parapet in Zone 3.
- (8) Demolition of Existing Parapet in Zone 3.
- (9) Bored Pile Construction Worksin Zone 3.
- (10) Lagging wall and Retaining wall in Zone 3.
- (11) Relocation of Traffic Light in Zone 3.
- (12) Soldier Pile Construction Works in Zone 3.
- (13) Pre Bored H Pile Construction Works in Zone 3.
- (14) Column Construction Works in Zone 3 & 4.
- (15) Demolition of Central Median, and Temporary Median Module Installation Works in Zone 3 & 4.
- (16) Pre Drilling Works and Sheet Piling Works in Zone 3.
- (17) NF40 Footbridge Pile Cap and Column Construction Works in Zone 4.
- (18) NF66 Footbridge Column Construction Works in Zone 4.
- (19) Soil Replacement Works on Slope in Zone 5.

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong, Hong Kong

Tel : (852)-24508238 Fong, 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 (February 2021)

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

Room 723 & 725, 7/F, Block B, Profit Industrial Building, 1-15 Kwai Fung Crescent, Kwai Fong,

Tel: (852)-24508238 Fax : (852)-24508032 Hong Kong 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 (January 2021)

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

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.

聖公會主風小學 2020-2021 年度上學期校曆表

| | | | | | | | | | | p |
|-------------------|-------|----|----|------------|-----------|------------|------------|----------|--|-----|
| 週次 | 月份 | | | 星 | <u>!</u> | 朝 | | | 行 事 要 項 | 假期日 |
| | | 日 | | _ | \equiv | 兀 | 五 | 六 | | 數 |
| (1) | 2020 | | | 1 * | 2 | 3 | 4 | 5 | 1/9 上學期開學日 | |
| (2) | 九 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| $ \widetilde{3} $ | 月 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | |
| (4) | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | |
| (5) | | 27 | 28 | 29 | 30 | | | | | |
| | | | | | | 1 | 2 | 3 | 1/10 國慶日 2/10 中秋節翌日 | 2 |
| 6 | 十 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| 7 | 月 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | | |
| 8 | \ \ 1 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 9 | | 25 | 26 | | | | | 31 | 26/10 重陽節翌日 27/10-30/10 進展性評估 | |
| | | | | <u>27</u> | <u>28</u> | <u>29</u> | <u>30</u> | | 20/10 里陽即登口 2//10—30/10 進段任計旧 | 1 |
| 10 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 14/14 「殷州中 日 日 1 / 中日 4 | |
| 11 | + | 8 | 9 | 10 | 11 | 12 | 13 | 14* | 14/11 上學期家長日、J.6 家長會 | |
| 12 | 1 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | | |
| 13 | 月 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | | |
| 14) | | 29 | 30 | | | | | | | |
| | | | | 1 * | 2 | 3 | 4 | 5 | 1/12 第十四屆陸運會 2/12 陸運會翌日假期 | 1 |
| 15) | 十 | 6 | 7 | 8 | 9* | <u>10</u> | <u>11</u> | 12 | 9/12 教師專業發展日 10/12-15/12 上學期學期試 (J.6 呈分試) | |
| 16) | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 10/12 12/12 工学别学别的(0.0 生分的) | |
| (17) | 月月 | 20 | 21 | 22 | 23 | 24 | 25 | | 22/12/2020-2/1/2021 聖誕及新年假期 | 5 |
| (18) | 7 3 | 27 | 28 | 29 | | 31 | | 20 | | 5 |
| 1.9 | 2021 | | 20 | | 30 | <i>J</i> 1 | 1 | 2 | | 2 |
| 19 | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| 20 | 月 | 10 | 11 | 12 | 13 | 14 | | 9 16* | 16/1 四十五周年校慶開放日暨文娛匯演 | |
| 20 21 22 | 口 | | | | | | | | | 1 |
| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 18/1 校慶開放日後假期 | 1 |
| (22) | | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | . |
| | | 31 | | | | | | | | |
| | 1 1 | | 1* | 2 | 3* | 4* | 5 * | 6 | 1/2 下學期開始 3/2-5/2 教育營(J.6) 5/2 旅行日(J.1-J.5) | |
| | 月 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 8/2-17/2 農曆新年假期 | 6 |
| | | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | 4 |
| | | | | | | | | | | |

附註: □代表假期 ★代表特別事宜

本年度關注事項

- 1 完善校本課程規劃,促進學與教效能。 2 透過多元化策略,培養學生自律精神。 3 深化生命教育,培育學生正向人生觀。

2020-2021 年度校曆表

| | | | | | | | | | 7 及仅准 亿 |
|---------|-----|----------|-----|-----|-----|--------------|--------------|------------|--------------------------------|
| | 周次 | 日 | 1 | = | 111 | 四 | 五 | 六 | 假期/事項 |
| 二季 | 1 | | | 1 | 2 | 3 | 4 | 5 | 上學期開始(1/9) |
| *: | 11 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 零二零年九 | W] | 13 | 14 | 15 | 16 | 17 | 18 | 19 | |
| | 四 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| 月 | 五 | 27 | 28 | 29 | 30 | | | | |
| | | | | | | \mathbb{X} | X | 3 | 國慶日(1/10) 中秋節翌日(2/10) |
| + | 六 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | 4 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 零功課日(13/10) |
| 月 | ^ | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| | 九 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 重陽節補假(26/10) |
| | + | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| + | +- | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| _ | += | 15 | 16 | 17 | 18 | <u>19</u> | 20 | 21 | 一至六年級考試(18-20,23,24/11) |
| 月 | += | 22 | 23 | 24) | 25 | 26 | 27 | 28 | |
| | 十四 | 29 | 30 | | | | | | |
| | | | | 1 | 2 | 3 | 4 | 5 | |
| + | 十五 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| = | 十六 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 全方位學習日(18/12) |
| 月 | ++ | 20 | 21) | 22 | 23 | 24 | 25 | 26 | 聖誕崇拜(21/12) 聖誕及新年假期(22/12-3/1) |
| | 十八 | 27 | 28 | 29 | 30 | 34 | | | |
| 11 | | | | | | | \mathbb{X} | \nearrow | |
| 零二 | 十九 | 3 | A | 5 | 6 | 7 | 8 | 9 | 教師專業發展日(4/1) P.6 家長日(9/1) |
| 一年 | 二十 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | P.1-5 家長日(16/1) |
| 年 一 | ニナー | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 零功課日(20/1) |
| 月 | ニナニ | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 學校籌款日(24/1) 學校假期(25/1) |
| | 倒上加 | | | かかす | 业水水 | | | | |

學校假期

教師專業發展日,學生不用上課 ○半天上課

| | 周 | 日 | | = | Ξ | 四四 | 五 | 六 | 假 期 / 事 項 |
|---|-----|------------|---------------|----------|--------------|--------------|------------|--------------|------------------------------------|
| | 次 | 4 | | 1 | 1 | | ш | ^ | 版 划 / 子 均 |
| | ニナ三 | 31 | 1 | 2 | 3 | 4 | 5 | 6 | 跨學科活動日(4/2) 陸運會(5/2) |
| = | 二十四 | 7 | X | X | M | M | M | X | 農曆新年假期(8/2-17/2) |
| | 二十五 |)4(|)\$ | M | M | 18 | 19 | 20 | 下學期開始(18/2) |
| 月 | 二十六 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | |
| | ニナセ | 28 | | | | | | | |
| | | | 1 | 2 | 3 | 4 | <u>(5)</u> | 6 | 六年級報分試(3-5,8,9/3) |
| 三 | 二十八 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 一至五年級主科考試(8-9/3) |
| | 二十九 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
| 月 | 三十 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 學校旅行(25/3)學校假期(26/3) |
| | 三十一 | 28 | 29 | 30 | 34 | | | | 福音周及復活節崇拜(29-30/3) |
| | | | | | | \mathbb{X} | X | X | 復活節及清明節假期(31/3-6//4) |
| 四 | 三十二 | \nearrow | \\ 5 \ | % | 7 | 8 | 9 | 10 | 六年級教育營(7/4-9/4) 一至五年級專題研習周(7-12/4) |
| | 三十三 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 家長日(17/4) |
| 月 | 三十四 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| | 三十五 | 25 | 26 | 27 | 28 | 29 | 30 | | 綵排日(29/4) 綜藝晚會(30/4) |
| | | | | | | | | \mathbb{X} | 勞動節(1/5) |
| 五 | 三十六 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 零功課日(7/5) |
| | 三十七 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| 月 | 三十八 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 佛誕(19/5) |
| | 三十九 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 教師專業發展日(28/5) |
| | 四十 | 30 | 31 | | | | | | |
| | | | | 1 | 2 | 3 | 4 | 5 | 一至六年級考試(2-4,7,8/6) |
| 六 | 四十一 | 6 | 7 | 8 | 9 | 10 | (11) | 12 | 全港性系統評估(10-11/6) |
| | 四十二 | 13 | M | (15) | 16 | 17 | 18 | 19 | 端午節(14/6) |
| 月 | 四十三 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| | 四十四 | 27 | 28) | 29 | 30 | | | | 畢業禮(30/6) |
| | | | | | | \mathbb{X} | X | 3 | 香港特區成立紀念日(1/7) 學校假期(2/7) |
| セ | 四十五 | 4 | (5) | 6 | 7 | 8 | 9 | 10 | |
| | 四十六 | 11 | 12 | 13 | M |) 55 | X | \mathbb{X} | 教師專業發展(12/7) 暑假(13/7-31/8) |
| 月 | 四十七 | 18 | 19 | 200 | 24 | 22 | 23 | 24 | |
| | 四十八 | 25 | 26 | 27 | 28 | 290 | 360 | 34 | |
| | 四十九 | X | X | X | \mathbb{X} | 5 5 | 6 | X | |
| 八 | 五十 | 8 | X | M | \mathbb{M} | M | M | \mathbb{M} | |
| | 五十一 | 15 | 76 | X | 18 | M | 20 | 24 | |
| 月 | 五十二 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | |
| | 五十三 | 29 | 30 | 34 | | | | | |

培英中學2020至2021年度校曆表

| | | 日 | - | = | 三 | 四四 | 五 | 六 | 假期及注意事項 |
|----------|----|------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|--|
| 週 | | (16) | (17) | (18) | (19) | (20) | (21) | (22) | |
| 次 | 八 | (10) | (17) | (16) | (19) | (20) | (21) | (22) | |
| | 月 | (23) | (24) | (25) | (26) | (27) | (28) | (29) | |
| | | (==) | (= ./ | | (= =/ | (, | (==) | (/ | |
| | | | | Sept | _ | _ | | | (1/9)開學禮 |
| 1 | 九 | | (31) | | 2 | 3 | 4 | | (2/9)正式上課 |
| 2 | _ | 6 | 7 | 8 | 9 | 10 | 11 | | (9/9)各班拍攝學生相片 |
| 4 | 月 | 13 | 14 | 15 | 16 | 17 | 18 | | (14/9)中一至中四學生開始繳交周記 |
| 4 | | 20 | 21 | 22 | 23 | 24 Oct | 25 | 20 | (21-25/9)國慶活動暨中國周 (28-30/9)體育推廣 |
| 5 | + | 27 | 28 | 29 | 30 | (1) | (2) | 3 | (1/10)國慶日假期 (2/10)中秋節翌日假期 |
| | , | | | | 30 | | | | (1110)四度日以为 (2110) 小叶五日以为 |
| 6 | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| _ | | 1.1 | 10 | 10 | 1.4 | 1.5 | 1.0 | 1.7 | (12-16/10)科學周 |
| 7 | | 11 | 12 | 13 | 14 | 15 | 16 | 17 | (16/10)學生領袖就職典禮 |
| 8 | | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 9 | 月 | 25 | (26) | 27 | 28 ^T | 29 ^T | 30 ^T | 31 | (26/10) 重陽節翌日假期 (27/10)教師專業發展日(1) |
| | | Nov | , , |) | | | | | (28/10-3/11)中一至中六級統一測驗 |
| 10 | + | 1 | 2 ^T | 3 ^T | 4 | 5 | 6 | 7 | |
| 11 | | 8 | 9 | 10 | 11 | 12 | 13 | | (9-13/11)數學周 |
| 12 | _ | 150 | 1.6 | 17 | 10 | 10 | 200 | 21 | (15/11)南區中學巡禮 (20/11)全方位學習日 |
| 12 | | 15△ | 16 | 17 | 18 | 19 | 20△ | 21 | (21/11下午)家長教師會第二十三屆會員大會 |
| 13 | 月 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | |
| | | | | | | | | | (25-26/11)中一、二級護苗課程 (27/11)師生聯誼日 |
| | | | | Dec | | | | | (30/11-1/12)中一、二級護苗跟進課程 |
| 14 | + | 29 | 30 | 1 | 2 | 3△ | (4) | 5 | (3/12)第六十二屆陸運會 (4/12)陸運會翌日假期 |
| 15 | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | (7-11/12)科技周 |
| | 二 | | | | | | | | (8/12)拍攝畢業照及班相 (12/12)中西南區小學數學比賽 (17-21/12)中六級校外模擬考試 |
| 16 | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | (14-18/12) 福音周 (18/12) 佈道會 |
| 10 | 月 | 10 | 1. | 10 | 10 | 1, | 10 | | (18/12晚上)家長教師會聖誕聯歡會 |
| 17 | /1 | 20 | 21 | 22 | (23) | (24) | (25) | (26) | (22/12)聖誕崇拜及慶祝會 (23/12-2/1)聖 誕及新年假期共11天 |
| | | | | | | | Jan | | |
| 18 | _ | (27) | (28) | (29) | (30) | (31) | (1) | (2) | (23,24,28,29,30/12)中六級補課 |
| 19 | | 3 | 4 | 5 | 6 ^E | 7 ^E | 8 ^E | 9 | (6-15/1)中一至中五級上學期期考共8天 (6-19/1)中六級畢業試 |
| 20 | | 10 | 11 ^E | 12 ^E | 13 ^E | 14 ^E | 15 ^E | 16 | |
| 21 | | 17 | 18 ^E | 19 ^E | 20 | 21 | 22 | 23 | (18-20/1)中一至中五級試後回饋日 (20/1下午)中五級學習概覽講座 |
| | | | | | | | | | (20/1-5/3)中六級試後上課日 |
| 22 | 月 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | (20 20/1) 上 |
| | | | FEB | | | | | | (22-29/1)中一至中五級上學期溫習及補考 (1/2)下學期開始 |
| 23 | | 31 | | 2 | 3 | 4 | 5 | | |
| 24 | = | 7 | (8) | (9) | | | (12) | | |
| 25 | | (14) | | (16) | (17) | | (19) | (20) | Appendix 1. It interests 2.x 1.2.2. |
| | | | | | | | | | (26/2)教師專業發展日(2) |
| 26 | 月 | 21 | 22 | 23 | 24 | 25 | (26) | 27 | (22/2)中一至中四級學生開始繳交周記 |
| | | | | | L | |) | | (24/2)中六級進行學生持份者問卷及教學評鑑 |
| 24 25 | | (14) | (15) | (16) | | (18) | (19) | (13) (20) | (22/2)中一至中四級學生開始繳交周記 |

培英中學2020至2021年度校曆表

| | | В | _ | = | Ξ | 四 | 五 | 六 | 假期及注意事項 |
|----------|-----|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|--|
| | | - | Mar | | | | | | (5/3)中六級習禮及感恩惜別會 (6/3)家長日暨中三升中四選科講座 |
| 27 | 三 | 28 | 1 | 2 | 3 | 4 | 5 | 6 | (8/3)中六級開始溫習應付公開試 |
| 28 | | 7 | 8 | 9 | 10 | 11 | 12 | | (8-12/3)中華文化周 (12/3)頒獎禮 |
| 29 | | 14 | 15 | 16 | 17 | 18 | 19 | | (19-21/3)趁墟做老闆 |
| | | | | | | | | | (22-26/3)中一至中五級統一測驗 |
| 30 | | 21 | 22 ^T | 23 ^T | 24 ^T | 25 ^T | 26 ^T | 27 | (23/3-18/5)香港中學文憑考試 |
| | 月 | | | | | Apr | | | (31/3)復活節崇拜會 |
| 31 | /4 | 28 | 29 | 30 | 31 | (1) | (2) | (3) | (1-10/4)清明節及復活節假期共10天 |
| | | | | | | | | | Carry Mill Melling Break Mill Harve Management |
| 32 | 四 | <i>(4)</i> | (5) | (6) | (7) | (8) | (9) | (10) | |
| | | | | 10 | | | 1.5 | | (12/4)教師專業發展日(3) |
| 33 | | 11 | (12) | 13 | 14 | 15 | 16 | 17 | (13-16/4)藝術周 |
| | | | | | | | | | (23/4)校祖日感恩崇拜暨慶祝活動 |
| 34 | | 18 | 19 | 20 | 21 | 22 | 23△ | 24 | (24/4)區會模範生頒獎禮 |
| \vdash | 月 | | | | | | | Mav | (27/4或28/4)中三全港性系統評估口試 (30/4)TSA口試後備日 |
| 35 | /* | 25 | 26 | 27 | 28 | 29△ | (30) | | (29/4)全方位學習日 (30/4)全方位學習日翌日假期 (1/5)勞動節假期 |
| 7.5 | | | | | | | | | |
| 36 | 五 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | (3-7/5)個人社會及人文領域周 |
| 37 | | 9 | 10 | 11 | 12 | 13 | 14 | 15 | |
| 31 | | , | 10 | 11 | 12 | 13 | 14 | 1.5 | |
| 38 | | 16 | 17 | 18△ | (19) | 20 | 21△ | 22 | (18/5)水運同樂日 (19/5)佛誕假期 |
| | 月 | | | | | | -1 | | (21/5下午)畢業典禮 (21/5晚上)歡送畢業生暨校友會迎新晚會 |
| 39 | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | (28/5)畢業禮後備日 |
| | | 2.0 | | Jun | _ | | , F | _ | |
| 40 | 六 | 30 | 31 | 1 | 2 | 3 | 4 ^E | 5 | (4-15/6)中三級下學期考試共7天 |
| 41 | | 6 | 7 ^E | 8 ^E | 9 ^E | 10 ^E | 11^{E} | 12 | (4-18/6)中五級下學期考試共10天 |
| | | | | | | | | | (7-17/6)中一、二、四級下學期考試共8天 (14/6)端午節假期 (16-17/6)中三級全港性系統評估(中英數) |
| 42 | | 13 | (14) | 15 ^E | 16 ^E | 17 ^E | 18 ^E | 19 | (18-22/6)中一至中四級試後回饋日 |
| | | | | | | | | | (21/6)中三級全港性系統評估(後備日) |
| 43 | | 20 | 21 | 22 | 23 | 24 | 25 | 26 | (21/6-2/7)中五級試後上課局 (21/6下午)中五級學習概覽寫作工作坊 |
| | | | | | | | | | (23-25/6)中一至中五級溫習及補考 |
| | 月 | | | | | Jul | | | (1/7)香港特別行政區成立紀念日假期 |
| 44 | | 27 | 28 | 29 | 30 | (1) | 2 | 3 | (28/6-9/7)暑期英語營 |
| | | | | | | | | | |
| 45 | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | (7/7)中六級中學文憑考試放榜輔導講座 |
| | セ | | | | | | | | |
| | | | | | | , . | | | (14/7)香港中學文憑考試放榜 |
| 46 | | 11 | 12 | 13 | 14△ | 15 | (16) | (17) | (15/7)結業禮 (15/7)接見家長及學生 |
| 45 | | (10) | (10) | (20) | (37) | (22) | (22) | (3.0 | (16/7-31/8)暑假共47天 |
| 47 48 | 月 | (18) | | (20) | | | (23) | (24) | |
| 40 | | (25) Aug | (26) | (27) | (28) | (29) | (30) | (31) | |
| 40 | 入 | (1) | (2) | (3) | (4) | (5) | (6) | (7) | |
| | • | | | | | | | | (9/8)學生註冊及領取書籍校服 (9-20/8)升中導向課程 |
| 50 | | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (9-20/8)中六級香港中學文憑考試備試課程 |
| | | /= -· | , | , | , | , | /a = : | / | Control of the second of the s |
| 51 | 月 | (15) | (16) | (17) | (18) | (19) | (20) | (21) | |
| 52 | | (22) | (23) | (24) | (25) | (26) | (27) | (28) | |
| | 九 | | | | Sept | | | | (1/9)下學年開學禮 |
| 53 | 月 | (29) | (30) | (31) | 1 | 2 | 3 | 4 | (2/9)正式上課 |
| 55 | - 🔻 | () | (20) | () | | <u> </u> | | <u> </u> | V |

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Fax : +852 2450 6138
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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)

AMS6 - Shatin Plaza

| | | | | 1-hour TSP (| [μg/m³) | | | |
|-----------|------------|--------|--------|--------------|---------|--------------|-------------|---------|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather |
| 5-Jan-21 | 15:26 | 82 | 85 | 73 | 80 | | | Fine |
| 11-Jan-21 | 11:00 | 89 | 87 | 86 | 87 | | | Fine |
| 16-Jan-21 | 16:25 | 71 | 73 | 66 | 70 | 347 | 500 | Fine |
| 22-Jan-21 | 16:20 | 57 | 54 | 62 | 58 | | | Sunny |
| 28-Jan-21 | 18:37 | 91 | 93 | 97 | 94 | | | Sunny |
| | Average | | 78 | | | | | |
| | Max | | 97 | | | | | |
| | Min | | 54 | | | | | |

AMS7A - Sheung Wo Che

| | | | • | 1-hour TSP | (µg/m³) | • | | • |
|-----------|------------|--------|--------|------------|---------|--------------|-------------|---------|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather |
| 5-Jan-21 | 16:56 | 79 | 86 | 90 | 85 | | | Fine |
| 11-Jan-21 | 10:12 | 110 | 112 | 109 | 110 | | | Fine |
| 16-Jan-21 | 10:11 | 76 | 82 | 75 | 78 | 344 | 500 | Fine |
| 22-Jan-21 | 17:42 | 77 | 86 | 84 | 82 | | | Sunny |
| 28-Jan-21 | 15:12 | 97 | 95 | 90 | 94 | | | Sunny |
| | Average | • | 90 | • | | | | |
| | Max | | 112 | | 1 | | | |
| | | | 7.5 | | | | | |

AMS 8 - Lek Yuen Estate

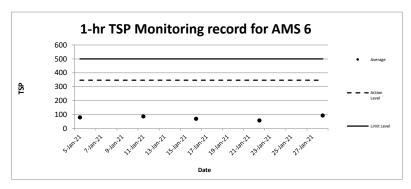
| | | | | 1-hour TSP | (µg/m³) | | | |
|-----------|------------|--------|--------|------------|---------|--------------|-------------|---------|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather |
| 5-Jan-21 | 18:16 | 69 | 72 | 69 | 70 | | | Fine |
| 11-Jan-21 | 15:06 | 99 | 100 | 104 | 101 | | | Fine |
| 16-Jan-21 | 15:04 | 85 | 89 | 87 | 87 | 336 | 500 | Fine |
| 22-Jan-21 | 15:16 | 55 | 55 | 50 | 53 | | | Sunny |
| 28-Jan-21 | 15:36 | 75 | 80 | 77 | 77 | | | Sunny |
| | Average | | 78 | | | | | |
| | Max | | 104 | | | | | |
| | Min | | 50 | | | | | |

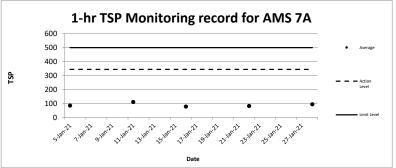
AMS 13 - Fung Wo Estate

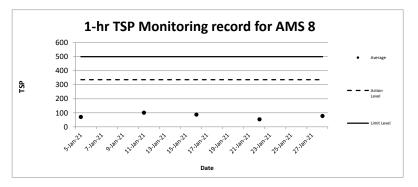
| | 1-hour TSP (µg/m³) | | | | | | | | | | |
|-----------|--------------------|--------|--------|--------|---------|--------------|-------------|---------|--|--|--|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather | | | |
| 5-Jan-21 | 18:26 | 93 | 97 | 91 | 94 | | | Fine | | | |
| 11-Jan-21 | 14:29 | 110 | 112 | 100 | 107 | | | Fine | | | |
| 16-Jan-21 | 16:27 | 67 | 68 | 63 | 66 | 303 | 500 | Fine | | | |
| 22-Jan-21 | 14:46 | 87 | 89 | 87 | 88 | | | Sunny | | | |
| 28-Jan-21 | 19:26 | 66 | 65 | 62 | 64 | | | Sunny | | | |
| | Average | | 84 | | | | | | | | |
| | Max | | 112 | | 1 | | | | | | |
| | Min | 62 | | | | | | | | | |

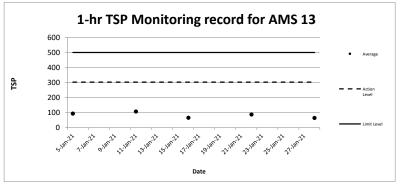
Remark

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









| AMS6 - Shatin Plaza | |
|---------------------|---------------------------|
| Date and Time | TSP Concentration (µg/m³) |
| 5/1/2021 08:26 | 54 |
| 5/1/2021 09:26 | 57 |
| 5/1/2021 10:26 | 57 |
| 5/1/2021 11:26 | 62 |
| 5/1/2021 12:26 | 65 |
| 5/1/2021 13:26 | 68 |
| 5/1/2021 14:26 | 73 |
| 5/1/2021 15:26 | 82 |
| 5/1/2021 16:26 | 85 |
| 5/1/2021 17:26 | 73 |
| 5/1/2021 18:26 | 74 |
| 5/1/2021 19:26 | 77 |
| 5/1/2021 20:26 | 73 |
| 5/1/2021 21:26 | 66 |
| 5/1/2021 22:26 | 69 |
| 5/1/2021 23:26 | 62 |
| 6/1/2021 00:26 | 65 |
| 6/1/2021 01:26 | 71 |
| 6/1/2021 02:26 | 66 |
| 6/1/2021 03:26 | 66 |
| 6/1/2021 04:26 | 46 |
| 6/1/2021 05:26 | 49 |
| 6/1/2021 06:26 | 52 |
| 6/1/2021 07:26 | 54 |
| Average | 65 |
| Action Level | 165 |
| Limit Level | 260 |

| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 11/1/2021 09:00 | 78 |
| 11/1/2021 10:00 | 84 |
| 11/1/2021 11:00 | 89 |
| 11/1/2021 12:00 | 87 |
| 11/1/2021 13:00 | 86 |
| 11/1/2021 14:00 | 86 |
| 11/1/2021 15:00 | 85 |
| 11/1/2021 16:00 | 88 |
| 11/1/2021 17:00 | 89 |
| 11/1/2021 18:00 | 85 |
| 11/1/2021 19:00 | 84 |
| 11/1/2021 20:00 | 81 |
| 11/1/2021 21:00 | 80 |
| 11/1/2021 22:00 | 80 |
| 11/1/2021 23:00 | 78 |
| 12/1/2021 00:00 | 76 |
| 12/1/2021 01:00 | 74 |
| 12/1/2021 02:00 | 74 |
| 12/1/2021 03:00 | 76 |
| 12/1/2021 04:00 | 77 |
| 12/1/2021 05:00 | 78 |
| 12/1/2021 06:00 | 78 |
| 12/1/2021 07:00 | 79 |
| 12/1/2021 08:00 | 82 |
| Average | 81 |
| Action Level | 165 |
| Limit Level | 260 |

| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 16/1/2021 08:25 | 41 |
| 16/1/2021 09:25 | 38 |
| 16/1/2021 10:25 | 35 |
| 16/1/2021 11:25 | 39 |
| 16/1/2021 12:25 | 44 |
| 16/1/2021 13:25 | 52 |
| 16/1/2021 14:25 | 54 |
| 16/1/2021 15:25 | 60 |
| 16/1/2021 16:25 | 71 |
| 16/1/2021 17:25 | 73 |
| 16/1/2021 18:25 | 66 |
| 16/1/2021 19:25 | 63 |
| 16/1/2021 20:25 | 66 |
| 16/1/2021 21:25 | 53 |
| 16/1/2021 22:25 | 57 |
| 16/1/2021 23:25 | 51 |
| 17/1/2021 00:25 | 71 |
| 17/1/2021 01:25 | 73 |
| 17/1/2021 02:25 | 66 |
| 17/1/2021 03:25 | 70 |
| 17/1/2021 04:25 | 54 |
| 17/1/2021 05:25 | 54 |
| 17/1/2021 06:25 | 55 |
| 17/1/2021 07:25 | 58 |
| Average | 57 |
| Action Level | 165 |
| Limit Level | 260 |

| Data and Thur | TCD C |
|-----------------|---------------------------|
| Date and Time | TSP Concentration (μg/m³) |
| 22/1/2021 08:20 | 34 |
| 22/1/2021 09:20 | 36 |
| 22/1/2021 10:20 | 36 |
| 22/1/2021 11:20 | 41 |
| 22/1/2021 12:20 | 46 |
| 22/1/2021 13:20 | 44 |
| 22/1/2021 14:20 | 52 |
| 22/1/2021 15:20 | 51 |
| 22/1/2021 16:20 | 57 |
| 22/1/2021 17:20 | 54 |
| 22/1/2021 18:20 | 62 |
| 22/1/2021 19:20 | 51 |
| 22/1/2021 20:20 | 52 |
| 22/1/2021 21:20 | 43 |
| 22/1/2021 22:20 | 44 |
| 22/1/2021 23:20 | 47 |
| 23/1/2021 00:20 | 55 |
| 23/1/2021 01:20 | 54 |
| 23/1/2021 02:20 | 51 |
| 23/1/2021 03:20 | 47 |
| 23/1/2021 04:20 | 39 |
| 23/1/2021 05:20 | 41 |
| 23/1/2021 06:20 | 38 |
| 23/1/2021 07:20 | 36 |
| Average | 46 |
| Action Level | 165 |
| , action Ecver | 100 |

| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 28/1/2021 08:37 | 46 |
| 28/1/2021 09:37 | 42 |
| 28/1/2021 10:37 | 36 |
| 28/1/2021 11:37 | 30 |
| 28/1/2021 12:37 | 46 |
| 28/1/2021 13:37 | 53 |
| 28/1/2021 14:37 | 65 |
| 28/1/2021 15:37 | 70 |
| 28/1/2021 16:37 | 80 |
| 28/1/2021 17:37 | 87 |
| 28/1/2021 18:37 | 91 |
| 28/1/2021 19:37 | 93 |
| 28/1/2021 20:37 | 97 |
| 28/1/2021 21:37 | 47 |
| 28/1/2021 22:37 | 47 |
| 28/1/2021 23:37 | 80 |
| 29/1/2021 00:37 | 82 |
| 29/1/2021 01:37 | 72 |
| 29/1/2021 02:37 | 66 |
| 29/1/2021 03:37 | 65 |
| 29/1/2021 04:37 | 57 |
| 29/1/2021 05:37 | 70 |
| 29/1/2021 06:37 | 68 |
| 29/1/2021 07:37 | 72 |
| Average | 65 |
| Action Level | 165 |
| Limit Level | 260 |

Remark

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

| AMS7A - Sheung Wo Che | | |
|-----------------------|---------------------------|--|
| Date and Time | TSP Concentration (μg/m³) | |
| 5/1/2021 08:56 | 45 | |
| 5/1/2021 09:56 | 41 | |
| 5/1/2021 10:56 | 52 | |
| 5/1/2021 11:56 | 54 | |
| 5/1/2021 12:56 | 64 | |
| 5/1/2021 13:56 | 60 | |
| 5/1/2021 14:56 | 60 | |
| 5/1/2021 15:56 | 73 | |
| 5/1/2021 16:56 | 79 | |
| 5/1/2021 17:56 | 86 | |
| 5/1/2021 18:56 | 90 | |
| 5/1/2021 19:56 | 73 | |
| 5/1/2021 20:56 | 79 | |
| 5/1/2021 21:56 | 67 | |
| 5/1/2021 22:56 | 69 | |
| 5/1/2021 23:56 | 77 | |
| 6/1/2021 00:56 | 64 | |
| 6/1/2021 01:56 | 67 | |
| 6/1/2021 02:56 | 69 | |
| 6/1/2021 03:56 | 52 | |
| 6/1/2021 04:56 | 58 | |
| 6/1/2021 05:56 | 60 | |
| 6/1/2021 06:56 | 66 | |
| 6/1/2021 07:56 | 52 | |
| Average | 65 | |
| Action Level | 165 | |
| Limit Level | 260 | |

| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 11/1/2021 09:12 | 108 |
| 11/1/2021 10:12 | 110 |
| 11/1/2021 11:12 | 112 |
| 11/1/2021 12:12 | 109 |
| 11/1/2021 13:12 | 107 |
| 11/1/2021 14:12 | 105 |
| 11/1/2021 15:12 | 108 |
| 11/1/2021 16:12 | 107 |
| 11/1/2021 17:12 | 107 |
| 11/1/2021 18:12 | 98 |
| 11/1/2021 19:12 | 95 |
| 11/1/2021 20:12 | 96 |
| 11/1/2021 21:12 | 97 |
| 11/1/2021 22:12 | 90 |
| 11/1/2021 23:12 | 91 |
| 12/1/2021 00:12 | 94 |
| 12/1/2021 01:12 | 93 |
| 12/1/2021 02:12 | 95 |
| 12/1/2021 03:12 | 92 |
| 12/1/2021 04:12 | 90 |
| 12/1/2021 05:12 | 94 |
| 12/1/2021 06:12 | 99 |
| 12/1/2021 07:12 | 102 |
| 12/1/2021 08:12 | 104 |
| Average | 100 |
| Action Level | 165 |
| Limit Level | 260 |

| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 16/1/2021 09:11 | 62 |
| 16/1/2021 10:11 | 76 |
| 16/1/2021 11:11 | 82 |
| 16/1/2021 12:11 | 75 |
| 16/1/2021 13:11 | 51 |
| 16/1/2021 14:11 | 45 |
| 16/1/2021 15:11 | 52 |
| 16/1/2021 16:11 | 54 |
| 16/1/2021 17:11 | 56 |
| 16/1/2021 18:11 | 56 |
| 16/1/2021 19:11 | 64 |
| 16/1/2021 20:11 | 60 |
| 16/1/2021 21:11 | 60 |
| 16/1/2021 22:11 | 56 |
| 16/1/2021 23:11 | 52 |
| 17/1/2021 00:11 | 48 |
| 17/1/2021 01:11 | 58 |
| 17/1/2021 02:11 | 64 |
| 17/1/2021 03:11 | 62 |
| 17/1/2021 04:11 | 71 |
| 17/1/2021 05:11 | 77 |
| 17/1/2021 06:11 | 58 |
| 17/1/2021 07:11 | 56 |
| 17/1/2021 08:11 | 51 |
| Average | 60 |
| Action Level | 165 |
| Limit Level | 260 |

| Date and Tin | ne | TSP Concentration (μg/m³) |
|--------------|-------|---------------------------|
| 22/1/2021 | 08:42 | 60 |
| 22/1/2021 | 09:42 | 49 |
| 22/1/2021 | 10:42 | 45 |
| 22/1/2021 | 11:42 | 47 |
| 22/1/2021 | 12:42 | 52 |
| 22/1/2021 | 13:42 | 54 |
| 22/1/2021 | 14:42 | 67 |
| 22/1/2021 | 15:42 | 71 |
| 22/1/2021 | 16:42 | 79 |
| 22/1/2021 | 17:42 | 77 |
| 22/1/2021 | 18:42 | 86 |
| 22/1/2021 | 19:42 | 84 |
| 22/1/2021 | 20:42 | 75 |
| 22/1/2021 | 21:42 | 73 |
| 22/1/2021 | 22:42 | 71 |
| 22/1/2021 | 23:42 | 82 |
| 23/1/2021 | 00:42 | 86 |
| 23/1/2021 | 01:42 | 71 |
| 23/1/2021 | 02:42 | 67 |
| 23/1/2021 | 03:42 | 60 |
| 23/1/2021 | 04:42 | 56 |
| 23/1/2021 | 05:42 | 62 |
| 23/1/2021 | 06:42 | 52 |
| 23/1/2021 | 07:42 | 52 |
| | erage | 66 |
| Action | Level | 165 |
| | | |

| L | Date and Time | TSP Concentration (μg/m³) |
|---|-----------------|---------------------------|
| ı | 28/1/2021 09:12 | 37 |
| | 28/1/2021 10:12 | 40 |
| | 28/1/2021 11:12 | 41 |
| | 28/1/2021 12:12 | 60 |
| | 28/1/2021 13:12 | 64 |
| | 28/1/2021 14:12 | 58 |
| | 28/1/2021 15:12 | 97 |
| | 28/1/2021 16:12 | 95 |
| | 28/1/2021 17:12 | 90 |
| | 28/1/2021 18:12 | 82 |
| | 28/1/2021 19:12 | 60 |
| | 28/1/2021 20:12 | 67 |
| | 28/1/2021 21:12 | 71 |
| | 28/1/2021 22:12 | 86 |
| | 28/1/2021 23:12 | 90 |
| | 29/1/2021 00:12 | 79 |
| | 29/1/2021 01:12 | 74 |
| | 29/1/2021 02:12 | 71 |
| | 29/1/2021 03:12 | 80 |
| | 29/1/2021 04:12 | 86 |
| | 29/1/2021 05:12 | 84 |
| | 29/1/2021 06:12 | 84 |
| | 29/1/2021 07:12 | 78 |
| | 29/1/2021 08:12 | 75 |
| | Average | 73 |
| | Action Level | 165 |
| | Limit Level | 260 |

Limit Level Remark

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

AMS 8 - Lek Yuen Estate

| Date and Time | TSP Concentration (μg/m³) |
|----------------|---------------------------|
| 5/1/2021 09:16 | 47 |
| 5/1/2021 10:16 | 53 |
| 5/1/2021 11:16 | 38 |
| 5/1/2021 12:16 | 52 |
| 5/1/2021 13:16 | 54 |
| 5/1/2021 14:16 | 60 |
| 5/1/2021 15:16 | 55 |
| 5/1/2021 16:16 | 64 |
| 5/1/2021 17:16 | 67 |
| 5/1/2021 18:16 | 69 |
| 5/1/2021 19:16 | 72 |
| 5/1/2021 20:16 | 69 |
| 5/1/2021 21:16 | 58 |
| 5/1/2021 22:16 | 55 |
| 5/1/2021 23:16 | 55 |
| 6/1/2021 00:16 | 49 |
| 6/1/2021 01:16 | 54 |
| 6/1/2021 02:16 | 58 |
| 6/1/2021 03:16 | 63 |
| 6/1/2021 04:16 | 67 |
| 6/1/2021 05:16 | 70 |
| 6/1/2021 06:16 | 52 |
| 6/1/2021 07:16 | 53 |
| 6/1/2021 08:16 | 57 |
| Average | 58 |
| Action Level | 161 |
| Limit Level | 260 |

| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 11/1/2021 09:06 | 98 |
| 11/1/2021 10:06 | 97 |
| 11/1/2021 11:06 | 99 |
| 11/1/2021 12:06 | 100 |
| 11/1/2021 13:06 | 98 |
| 11/1/2021 14:06 | 98 |
| 11/1/2021 15:06 | 99 |
| 11/1/2021 16:06 | 100 |
| 11/1/2021 17:06 | 104 |
| 11/1/2021 18:06 | 98 |
| 11/1/2021 19:06 | 94 |
| 11/1/2021 20:06 | 92 |
| 11/1/2021 21:06 | 92 |
| 11/1/2021 22:06 | 90 |
| 11/1/2021 23:06 | 90 |
| 12/1/2021 00:06 | 89 |
| 12/1/2021 01:06 | 85 |
| 12/1/2021 02:06 | 85 |
| 12/1/2021 03:06 | 90 |
| 12/1/2021 04:06 | 92 |
| 12/1/2021 05:06 | 96 |
| 12/1/2021 06:06 | 98 |
| 12/1/2021 07:06 | 99 |
| 12/1/2021 08:06 | 97 |
| Average | 95 |
| Action Level | 161 |
| Limit Level | 260 |

| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 16/1/2021 09:04 | 58 |
| 16/1/2021 10:04 | 64 |
| 16/1/2021 11:04 | 69 |
| 16/1/2021 12:04 | 73 |
| 16/1/2021 13:04 | 77 |
| 16/1/2021 14:04 | 81 |
| 16/1/2021 15:04 | 85 |
| 16/1/2021 16:04 | 89 |
| 16/1/2021 17:04 | 87 |
| 16/1/2021 18:04 | 83 |
| 16/1/2021 19:04 | 80 |
| 16/1/2021 20:04 | 73 |
| 16/1/2021 21:04 | 70 |
| 16/1/2021 22:04 | 69 |
| 16/1/2021 23:04 | 67 |
| 17/1/2021 00:04 | 67 |
| 17/1/2021 01:04 | 72 |
| 17/1/2021 02:04 | 69 |
| 17/1/2021 03:04 | 60 |
| 17/1/2021 04:04 | 52 |
| 17/1/2021 05:04 | 49 |
| 17/1/2021 06:04 | 46 |
| 17/1/2021 07:04 | 43 |
| 17/1/2021 08:04 | 35 |
| Average | 67 |
| Action Level | 161 |
| Limit Level | 260 |

| Date and Time | TSP Concentration (µg/m³) |
|-----------------|---------------------------|
| 21/1/2021 09:10 | 34 |
| 21/1/2021 10:16 | 37 |
| 21/1/2021 11:16 | 38 |
| 21/1/2021 12:16 | 41 |
| 21/1/2021 13:16 | 47 |
| 21/1/2021 14:16 | 52 |
| 21/1/2021 15:16 | 55 |
| 21/1/2021 16:16 | 55 |
| 21/1/2021 17:16 | 50 |
| 21/1/2021 18:16 | 49 |
| 21/1/2021 19:16 | 46 |
| 21/1/2021 20:16 | 55 |
| 21/1/2021 21:16 | 61 |
| 21/1/2021 22:16 | 64 |
| 21/1/2021 23:16 | 66 |
| 22/1/2021 00:16 | 62 |
| 22/1/2021 01:16 | 58 |
| 22/1/2021 02:16 | 55 |
| 22/1/2021 03:16 | 52 |
| 22/1/2021 04:16 | 50 |
| 22/1/2021 05:16 | 57 |
| 22/1/2021 06:16 | 59 |
| 22/1/2021 07:16 | 64 |
| 22/1/2021 08:16 | 61 |
| Average | 53 |
| Action Level | 161 |
| | |

| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 28/1/2021 08:36 | 58 |
| 28/1/2021 09:36 | 55 |
| 28/1/2021 10:36 | 52 |
| 28/1/2021 11:36 | 43 |
| 28/1/2021 12:36 | 40 |
| 28/1/2021 13:36 | 44 |
| 28/1/2021 14:36 | 47 |
| 28/1/2021 15:36 | 75 |
| 28/1/2021 16:36 | 80 |
| 28/1/2021 17:36 | 77 |
| 28/1/2021 18:36 | 64 |
| 28/1/2021 19:36 | 67 |
| 28/1/2021 20:36 | 73 |
| 28/1/2021 21:36 | 52 |
| 28/1/2021 22:36 | 55 |
| 28/1/2021 23:36 | 57 |
| 29/1/2021 00:36 | 73 |
| 29/1/2021 01:36 | 70 |
| 29/1/2021 02:36 | 67 |
| 29/1/2021 03:36 | 64 |
| 29/1/2021 04:36 | 58 |
| 29/1/2021 05:36 | 55 |
| 29/1/2021 06:36 | 52 |
| 29/1/2021 07:36 | 49 |
| Average | 60 |
| Action Level | 161 |
| Limit Level | 260 |

Limit Level 260 Limit Level 260 Limit Level 260

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

AMS 13 - Fung Wo Estate

| AMS 13 - Fung Wo Est | ate |
|----------------------|---------------------------|
| Date and Time | TSP Concentration (μg/m³) |
| 5/1/2021 09:26 | 53 |
| 5/1/2021 10:26 | 55 |
| 5/1/2021 11:26 | 57 |
| 5/1/2021 12:26 | 61 |
| 5/1/2021 13:26 | 63 |
| 5/1/2021 14:26 | 70 |
| 5/1/2021 15:26 | 80 |
| 5/1/2021 16:26 | 78 |
| 5/1/2021 17:26 | 76 |
| 5/1/2021 18:26 | 93 |
| 5/1/2021 19:26 | 97 |
| 5/1/2021 20:26 | 91 |
| 5/1/2021 21:26 | 74 |
| 5/1/2021 22:26 | 76 |
| 5/1/2021 23:26 | 82 |
| 6/1/2021 00:26 | 82 |
| 6/1/2021 01:26 | 87 |
| 6/1/2021 02:26 | 68 |
| 6/1/2021 03:26 | 65 |
| 6/1/2021 04:26 | 63 |
| 6/1/2021 05:26 | 87 |
| 6/1/2021 06:26 | 84 |
| 6/1/2021 07:26 | 78 |
| 6/1/2021 08:26 | 70 |
| Average | 75 |
| Action Level | 174 |
| Limit Level | 260 |

| 11/1/2021 09:29 95 11/1/2021 10:29 98 11/1/2021 11:29 101 11/1/2021 13:29 108 11/1/2021 13:29 100 11/1/2021 13:29 110 11/1/2021 15:29 110 11/1/2021 15:29 110 11/1/2021 15:29 100 11/1/2021 15:29 100 11/1/2021 15:29 94 11/1/2021 17:29 94 11/1/2021 19:29 75 11/1/2021 20:29 76 11/1/2021 20:29 76 11/1/2021 21:29 80 11/1/2021 22:29 84 11/1/2021 22:29 84 11/1/2021 02:29 80 12/1/2021 00:29 80 12/1/2021 00:29 80 12/1/2021 00:29 80 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 05:29 84 12/1/2021 06:29 86 12/1/2021 06:29 86 12/1/2021 06:29 86 12/1/2021 06:29 80 12/1/2021 07:29 85 12/1/2021 07:29 85 12/1/2021 08:29 88 Average 89 Action Level 174 Limit Level 260 | Date and Time | TSP Concentration (μg/m³) |
|---|-----------------|---------------------------|
| 11/1/2021 11:29 | 11/1/2021 09:29 | 95 |
| 11/1/2021 12:29 108 11/1/2021 13:29 100 11/1/2021 14:29 110 11/1/2021 15:29 112 11/1/2021 16:29 100 11/1/2021 17:29 94 11/1/2021 17:29 94 11/1/2021 18:29 75 11/1/2021 20:29 76 11/1/2021 21:29 80 11/1/2021 22:29 84 11/1/2021 22:29 84 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 00:29 80 12/1/2021 00:29 80 12/1/2021 00:29 83 12/1/2021 00:29 84 12/1/2021 00:29 84 12/1/2021 00:29 84 12/1/2021 00:29 84 12/1/2021 00:29 86 12/1/2021 00:29 86 12/1/2021 00:29 86 12/1/2021 00:29 86 12/1/2021 00:29 86 12/1/2021 00:29 86 12/1/2021 00:29 86 12/1/2021 00:29 86 12/1/2021 00:29 86 12/1/2021 00:29 88 12/1/2021 00:29 88 12/1/2021 00:29 89 12/1/2021 00:29 88 | 11/1/2021 10:29 | 98 |
| 11/1/2021 13:29 100 11/1/2021 14:29 110 11/1/2021 15:29 112 11/1/2021 15:29 100 11/1/2021 15:29 94 11/1/2021 18:29 94 11/1/2021 18:29 75 11/1/2021 20:29 76 11/1/2021 21:29 80 11/1/2021 22:29 84 11/1/2021 22:29 84 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 01:29 80 12/1/2021 03:29 81 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 05:29 84 12/1/2021 05:29 84 12/1/2021 05:29 86 12/1/2021 05:29 86 12/1/2021 05:29 86 12/1/2021 05:29 88 12/1/2021 06:29 80 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 | 11/1/2021 11:29 | 101 |
| 11/1/2021 14:29 110 11/1/2021 15:29 112 11/1/2021 15:29 100 11/1/2021 17:29 94 11/1/2021 18:29 80 11/1/2021 18:29 75 11/1/2021 19:29 76 11/1/2021 20:29 76 11/1/2021 22:29 84 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 00:29 80 12/1/2021 00:29 83 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 06:29 86 12/1/2021 06:29 86 12/1/2021 06:29 86 12/1/2021 06:29 86 12/1/2021 06:29 86 12/1/2021 06:29 86 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 | 11/1/2021 12:29 | 108 |
| 11/1/2021 15:29 11/1/2021 15:29 11/1/2021 16:29 11/1/2021 18:29 94 11/1/2021 18:29 80 11/1/2021 19:29 75 11/1/2021 20:29 80 11/1/2021 22:29 80 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 02:29 80 12/1/2021 00:29 80 12/1/2021 00:29 80 12/1/2021 00:29 81 12/1/2021 00:29 82 12/1/2021 00:29 83 12/1/2021 00:29 84 12/1/2021 00:29 86 12/1/2021 00:29 87 12/1/2021 00:29 88 12/1/2021 00:29 88 12/1/2021 00:29 88 12/1/2021 00:29 88 12/1/2021 00:29 88 12/1/2021 00:29 88 12/1/2021 00:29 88 12/1/2021 00:29 88 12/1/2021 00:29 88 Average 89 Action Level | 11/1/2021 13:29 | 100 |
| 11/1/2021 16:29 100 11/1/2021 17:29 94 11/1/2021 18:29 80 11/1/2021 20:29 76 11/1/2021 21:29 80 11/1/2021 22:29 84 11/1/2021 22:29 84 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 01:29 80 12/1/2021 01:29 80 12/1/2021 01:29 80 12/1/2021 02:29 83 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 05:29 84 12/1/2021 05:29 84 12/1/2021 05:29 86 12/1/2021 05:29 86 12/1/2021 05:29 86 12/1/2021 05:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 | 11/1/2021 14:29 | 110 |
| 11/1/2021 17:29 94 11/1/2021 18:29 80 11/1/2021 19:29 75 11/1/2021 20:29 76 11/1/2021 21:29 80 11/1/2021 22:29 84 11/1/2021 22:29 84 11/1/2021 02:29 80 12/1/2021 01:29 80 12/1/2021 02:29 83 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 05:29 86 12/1/2021 05:29 86 12/1/2021 05:29 86 12/1/2021 06:29 80 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 | 11/1/2021 15:29 | 112 |
| 11/1/2021 18:29 80 11/1/2021 19:29 75 11/1/2021 20:29 76 11/1/2021 21:29 80 11/1/2021 22:29 84 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 01:29 80 12/1/2021 02:29 83 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 05:29 84 12/1/2021 05:29 86 12/1/2021 06:29 80 12/1/2021 06:29 80 12/1/2021 06:29 80 12/1/2021 06:29 80 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 | 11/1/2021 16:29 | 100 |
| 11/1/2021 19:29 75 11/1/2021 20:29 76 11/1/2021 21:29 80 11/1/2021 22:29 84 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 01:29 80 12/1/2021 03:29 83 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 03:29 86 12/1/2021 05:29 86 12/1/2021 05:29 86 12/1/2021 05:29 86 12/1/2021 05:29 80 12/1/2021 05:29 80 12/1/2021 05:29 80 12/1/2021 05:29 80 12/1/2021 05:29 85 12/1/2021 08:29 88 Average 89 Action Level 174 | 11/1/2021 17:29 | 94 |
| 11/1/2021 20:29 76 11/1/2021 21:29 80 11/1/2021 21:29 84 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 01:29 80 12/1/2021 02:29 83 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 06:29 80 12/1/2021 06:29 80 12/1/2021 06:29 80 12/1/2021 08:29 85 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 12/1/2021 08:29 88 Average 89 Action Level 174 | 11/1/2021 18:29 | 80 |
| 11/1/2021 21:29 80 11/1/2021 22:29 84 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 01:29 80 12/1/2021 02:29 83 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 05:29 84 12/1/2021 06:29 80 12/1/2021 06:29 80 12/1/2021 08:29 85 12/1/2021 08:29 85 12/1/2021 08:29 88 Action Level 174 | 11/1/2021 19:29 | 75 |
| 11/1/2021 22:29 84 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 01:29 80 12/1/2021 02:29 83 12/1/2021 03:29 84 12/1/2021 03:29 84 12/1/2021 05:29 86 12/1/2021 06:29 80 12/1/2021 06:29 80 12/1/2021 07:29 85 12/1/2021 08:29 88 Action Level 174 | 11/1/2021 20:29 | 76 |
| 11/1/2021 23:29 81 12/1/2021 00:29 80 12/1/2021 01:29 80 12/1/2021 02:29 83 12/1/2021 03:29 84 12/1/2021 04:29 86 12/1/2021 05:29 84 12/1/2021 05:29 84 12/1/2021 07:29 80 12/1/2021 07:29 85 12/1/2021 07:29 85 12/1/2021 08:29 80 12/1/2021 08:29 88 Average 89 Action Level 174 | 11/1/2021 21:29 | 80 |
| 12/1/2021 00:29 80 12/1/2021 01:29 80 12/1/2021 01:29 83 12/1/2021 03:29 84 12/1/2021 03:29 86 12/1/2021 03:29 86 12/1/2021 06:29 80 12/1/2021 06:29 80 12/1/2021 08:29 88 12/1/2021 08:29 88 Average 89 Action Level 174 | 11/1/2021 22:29 | 84 |
| 12/1/2021 01:29 80 12/1/2021 02:29 83 12/1/2021 03:29 84 12/1/2021 04:29 86 12/1/2021 05:29 84 12/1/2021 06:29 80 12/1/2021 06:29 85 12/1/2021 08:29 85 12/1/2021 08:29 88 Average 89 Action Level 174 | 11/1/2021 23:29 | 81 |
| 12/1/2021 02:29 83 12/1/2021 03:29 84 12/1/2021 04:29 86 12/1/2021 05:29 84 12/1/2021 06:29 80 12/1/2021 07:29 85 12/1/2021 08:29 88 Average 89 Action Level 174 | 12/1/2021 00:29 | 80 |
| 12/1/2021 03:29 84 12/1/2021 04:29 86 12/1/2021 05:29 84 12/1/2021 06:29 80 12/1/2021 07:29 85 12/1/2021 08:29 88 Average 89 Action Level 174 | 12/1/2021 01:29 | 80 |
| 12/1/2021 04:29 86 12/1/2021 05:29 84 12/1/2021 05:29 80 12/1/2021 07:29 85 12/1/2021 08:29 88 Average 89 Action Level 174 | 12/1/2021 02:29 | 83 |
| 12/1/2021 05:29 84 12/1/2021 06:29 80 12/1/2021 07:29 85 12/1/2021 08:29 88 Average 89 Action Level 174 | 12/1/2021 03:29 | 84 |
| 12/1/2021 06:29 80 12/1/2021 07:29 85 12/1/2021 08:29 88 Average 89 Action Level 174 | 12/1/2021 04:29 | 86 |
| 12/1/2021 07:29 85 12/1/2021 08:29 88 Average 89 Action Level 174 | 12/1/2021 05:29 | 84 |
| 12/1/2021 08:29 88 Average 89 Action Level 174 | 12/1/2021 06:29 | 80 |
| Average 89 Action Level 174 | 12/1/2021 07:29 | 85 |
| Action Level 174 | 12/1/2021 08:29 | 88 |
| | Average | 89 |
| Limit Level 260 | Action Level | 174 |
| | Limit Level | 260 |

| 16/1/2021 09:27 | 34 |
|-----------------|-----|
| 16/1/2021 10:27 | 36 |
| 16/1/2021 11:27 | 42 |
| 16/1/2021 12:27 | 46 |
| 16/1/2021 13:27 | 49 |
| 16/1/2021 14:27 | 41 |
| 16/1/2021 15:27 | 44 |
| 16/1/2021 16:27 | 67 |
| 16/1/2021 17:27 | 68 |
| 16/1/2021 18:27 | 63 |
| 16/1/2021 19:27 | 51 |
| 16/1/2021 20:27 | 53 |
| 16/1/2021 21:27 | 49 |
| 16/1/2021 22:27 | 61 |
| 16/1/2021 23:27 | 38 |
| 17/1/2021 00:27 | 34 |
| 17/1/2021 01:27 | 46 |
| 17/1/2021 02:27 | 57 |
| 17/1/2021 03:27 | 71 |
| 17/1/2021 04:27 | 74 |
| 17/1/2021 05:27 | 80 |
| 17/1/2021 06:27 | 76 |
| 17/1/2021 07:27 | 72 |
| 17/1/2021 08:27 | 68 |
| Average | 55 |
| Action Level | 174 |
| Limit Level | 260 |
| | |
| | |
| | |
| | |
| | |
| | |

TSP Concentration (μg/m³)
34

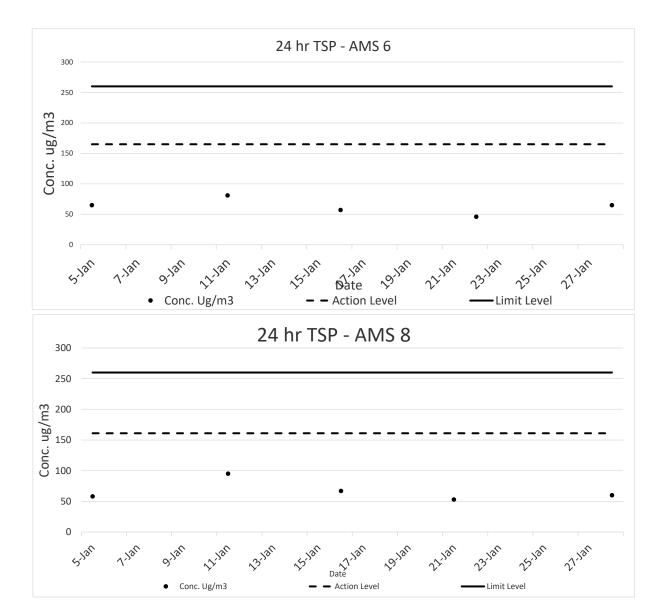
Date and Time 16/1/2021 09:27

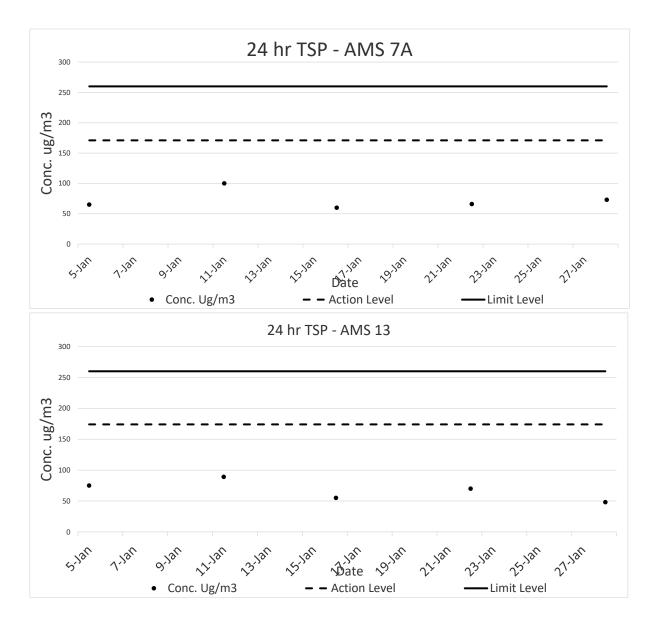
| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 22/1/2021 09:46 | 51 |
| 22/1/2021 10:46 | 55 |
| 22/1/2021 11:46 | 61 |
| 22/1/2021 12:46 | 67 |
| 22/1/2021 13:46 | 72 |
| 22/1/2021 14:46 | 87 |
| 22/1/2021 15:46 | 89 |
| 22/1/2021 16:46 | 87 |
| 22/1/2021 17:46 | 80 |
| 22/1/2021 18:46 | 76 |
| 22/1/2021 19:46 | 72 |
| 22/1/2021 20:46 | 68 |
| 22/1/2021 21:46 | 78 |
| 22/1/2021 22:46 | 70 |
| 22/1/2021 23:46 | 65 |
| 23/1/2021 00:46 | 61 |
| 23/1/2021 01:46 | 72 |
| 23/1/2021 02:46 | 76 |
| 23/1/2021 03:46 | 84 |
| 23/1/2021 04:46 | 72 |
| 23/1/2021 05:46 | 68 |
| 23/1/2021 06:46 | 61 |
| 23/1/2021 07:46 | 53 |
| 23/1/2021 08:46 | 59 |
| Average | 70 |
| Action Level | 174 |

| Date and Time | TSP Concentration (μg/m³) |
|-----------------|---------------------------|
| 28/1/2021 09:26 | 22 |
| 28/1/2021 10:26 | 25 |
| 28/1/2021 11:26 | 28 |
| 28/1/2021 12:26 | 27 |
| 28/1/2021 13:26 | 27 |
| 28/1/2021 14:26 | 38 |
| 28/1/2021 15:26 | 41 |
| 28/1/2021 16:26 | 46 |
| 28/1/2021 17:26 | 66 |
| 28/1/2021 18:26 | 65 |
| 28/1/2021 19:26 | 62 |
| 28/1/2021 20:26 | 52 |
| 28/1/2021 21:26 | 54 |
| 28/1/2021 22:26 | 60 |
| 28/1/2021 23:26 | 54 |
| 29/1/2021 00:26 | 55 |
| 29/1/2021 01:26 | 60 |
| 29/1/2021 02:26 | 62 |
| 29/1/2021 03:26 | 61 |
| 29/1/2021 04:26 | 43 |
| 29/1/2021 05:26 | 44 |
| 29/1/2021 06:26 | 60 |
| 29/1/2021 07:26 | 59 |
| 29/1/2021 08:26 | 51 |
| Average | 48 |
| Action Level | 174 |
| Limit Level | 260 |

Limit Level

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





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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 Sect

NMS 1 Scenery Court

| | | tart Time | | Wind | | | | |
|-----------|------------|-----------|------|------|-----------------|------|-------|-------|
| Date | Start Time | | | | | | | |
| | | | | Unit | t: dB(A) 30 Mir | ıs | | (m/s) |
| 5-Jan-21 | 08:30 | 62.8 | 59.5 | 64.0 | | 62.8 | Fine | 0.9 |
| 11-Jan-21 | 11:10 | 63.4 | 62.0 | 64.5 | 75 | 63.4 | Fine | 1.2 |
| 22-Jan-21 | 08:30 | 59.7 | 57.5 | 62.0 | 1 73 | 59.7 | Sunny | 1.2 |
| 28-Jan-21 | 09:00 | 62.6 | 58.0 | 64.0 | | 62.6 | Sunny | 0.4 |

NMS 2 Villa Le Parc

| | 0 . a.o | | | | | | | |
|-----------|------------|-----------------|---------------------|-----------------|--------------------------|--------------------------|---------|-------|
| | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind | |
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lilling Lover | Construction Noise Level | Weather | Speed |
| | | | Unit: dB(A) 30 Mins | | | Ĭ | (m/s) | |
| 5-Jan-21 | 10:33 | 54.2 | 51.0 | 55.0 | | 54.2 | Fine | 0.4 |
| 11-Jan-21 | 11:58 | 54.9 | 52.0 | 55.0 | 75 | 54.9 | Fine | 1.1 |
| 22-Jan-21 | 09:43 | 57.1 | 52.0 | 58.0 | 75 | 57.1 | Sunny | 1.6 |
| 28-Jan-21 | 09:44 | 55.8 | 51.5 | 56.5 | | 55.8 | Sunny | 0.7 |

NMS 3 Hilton Plaza

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | Weather | Wind |
|-----------|------------|-----------------|---------------------|-----------------|---------------|--------------------------|---------|----------------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lilling Level | Construction Noise Level | | Speed (m/s) |
| | | | Unit: dB(A) 30 Mins | | | | | |
| 5-Jan-21 | 09:11 | 70.7 | 66.0 | 72.0 | | 70.7 | Fine | 1.2 |
| 11-Jan-21 | 12:41 | 65.5 | 62.5 | 67.5 | 75 | 65.5 | Fine | 0.9 |
| 22-Jan-21 | 09:08 | 67.8 | 63.5 | 70.0 | , , | 67.8 | Sunny | 1.6 |
| 28-Jan-21 | 10:18 | 71.1 | 66.5 | 73.0 | | 71.1 | Sunny | 0.8 |

NMS 4 Tin Liu

| Date Start Time | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind | |
|-----------------|------------|-----------------|---------------------|-----------------|--------------------------|--------------------------|---------|----------------|
| | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillin Level | Construction Noise Level | Weather | Speed (m/s) |
| | | | Unit: dB(A) 30 Mins | | | | | |
| 5-Jan-21 | 10:17 | 67.1 | 65.0 | 68.5 | | 67.1 | Fine | 8.0 |
| 11-Jan-21 | 15:05 | 63.0 | 60.5 | 66.0 | 75 | 63.0 | Fine | 1.2 |
| 22-Jan-21 | 11:24 | 63.1 | 60.5 | 65.5 | 75 | 63.1 | Sunny | 0.8 |
| 28-Jan-21 | 09:04 | 68.2 | 63.0 | 71.0 | | 68.2 | Sunny | 0.7 |

NMS 5A Wai Wah Centre

| Date Start | | Measured Noise Leve | | | Limit Level | Construction Noise Level | | Wind |
|------------|------------|---------------------|-----------------|-----------------|----------------|--------------------------|---------|-------|
| | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lilling Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | : dB(A) 30 Min | is | Ĭ | (m/s) |
| 5-Jan-21 | 11:29 | 68.4 | 65.0 | 70.5 | | 68.4 | Fine | 0.7 |
| 11-Jan-21 | 14:27 | 68.5 | 66.0 | 69.5 | 75 | 68.5 | Fine | 0.8 |
| 22-Jan-21 | 10:19 | 72.8 | 67.5 | 75.0 | 13 | 72.8 | Sunny | 0.6 |
| 28-Jan-21 | 10:52 | 67.6 | 64.5 | 69.5 | | 67.6 | Sunny | 0.8 |

NMS 6A Wai Wah Centre

| | Measured Noise Level | | | Limit Level | Construction Noise Level | | Wind | |
|-----------|----------------------|-----------------|---------------------|-----------------|--------------------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lilling Level | Construction Noise Level | Weather | Speed |
| | | | Unit: dB(A) 30 Mins | | | | | (m/s) |
| 5-Jan-21 | 13:00 | 72.1 | 66.8 | 74.0 | | 72.1 | Fine | 0.9 |
| 11-Jan-21 | 13:38 | 70.2 | 67.0 | 71.0 | 75 | 70.2 | Fine | 1.1 |
| 22-Jan-21 | 10:54 | 67.2 | 66.5 | 70.0 | 73 | 67.2 | Sunny | 0.5 |
| 28-Jan-21 | 13:00 | 68.8 | 66.0 | 71.5 | | 68.8 | Sunny | 1.4 |

NMS 7 Tin Liu

| | | Measured Noise Level | | | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|----------------------|-----------------|---------------------|---------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lilling Level | Construction Noise Level | Weather | Speed |
| | | | | Unit: dB(A) 30 Mins | | | (m/s) | |
| 5-Jan-21 | 10:17 | 72.1 | 67.5 | 75.0 | | 72.1 | Fine | 0.6 |
| 11-Jan-21 | 15:49 | 62.3 | 60.5 | 63.5 | 75 | 62.3 | Fine | 1.1 |
| 22-Jan-21 | 12:00 | 62.6 | 60.5 | 64.0 | 73 | 62.6 | Sunny | 8.0 |
| 28-Jan-21 | 08:30 | 63.9 | 61.0 | 65.0 | | 63.9 | Sunny | 1.1 |

NMS 8 Shatin Plaza

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|--------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillin Lovei | Construction Noise Level | Weather | Speed |
| | | | | (m/s) | | | | |
| 6-Jan-21 | 16:14 | 66.4 | 62.5 | 67.5 | | 66.4 | Fine | 0.6 |
| 12-Jan-21 | 08:30 | 70.0 | 65.5 | 72.0 | 75 | 70.0 | Fine | 0.6 |
| 23-Jan-21 | 08:32 | 65.8 | 61.5 | 66.0 | 73 | 65.8 | Fine | 0.7 |
| 29-Jan-21 | 12:24 | 64.8 | 63.5 | 66.0 | | 64.8 | Sunny | 0.8 |

NMS 9 Lek Yuen Estate

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind | |
|-----------|------------|-----------------|---------------------|-----------------|---------------|--------------------------|---------|----------------|--|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lilling Level | Construction Noise Level | Weather | Speed (m/s) | |
| | | | Unit: dB(A) 30 Mins | | | | | | |
| 6-Jan-21 | 13:00 | 68.6 | 65.5 | 72.0 | | 68.6 | Fine | 0.8 | |
| 12-Jan-21 | 09:19 | 66.7 | 63.5 | 70.0 | 75 | 66.7 | Fine | 0.6 | |
| 23-Jan-21 | 14:17 | 66.6 | 62.0 | 68.0 |] '3 | 66.6 | Fine | 0.4 | |
| 29-Jan-21 | 16:21 | 61.8 | 59.0 | 64.0 | | 61.8 | Sunny | 0.6 | |

NMS 10A Shatin Tsung Tsin School

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|--------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillin Level | Construction Noise Level | Weather | Speed |
| | | | | | (m/s) | | | |
| 6-Jan-21 | 11:32 | 64.1 | 61.0 | 65.5 | | 64.1 | Fine | 0.8 |
| 12-Jan-21 | 10:10 | 67.0 | 64.0 | 70.0 | 70 | 67.0 | Fine | 0.6 |
| 23-Jan-21 | 09:44 | 63.4 | 59.0 | 64.5 |] /0 | 63.4 | Fine | 0.6 |
| 29-Jan-21 | 09:48 | 62.3 | 57.5 | 63.5 | | 62.3 | Sunny | 1.4 |

^{*}Note: The examination schedule was provide in Appendix E.

NMS 11 Sheung Wo Che

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|--------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillin Level | Construction Noise Level | Weather | Speed |
| | | | | | (m/s) | | | |
| 6-Jan-21 | 14:23 | 63.2 | 60.5 | 65.0 | | 63.2 | Fine | 0.3 |
| 12-Jan-21 | 11:32 | 58.4 | 51.5 | 59.0 | 75 | 58.4 | Fine | 1.2 |
| 23-Jan-21 | 15:32 | 62.6 | 58.5 | 63.5 |] '3 | 62.6 | Fine | 0.9 |
| 29-Jan-21 | 15:07 | 62.7 | 53.0 | 64.0 | | 62.7 | Sunny | 1.4 |

NMS 12 SKH Holy Spirit Primary School

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|--------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillit Level | Construction Noise Level | Weather | Speed |
| | | | | | (m/s) | | | |
| 6-Jan-21 | 10:55 | 62.6 | 59.5 | 65.0 | | 62.6 | Fine | 1.4 |
| 12-Jan-21 | 11:00 | 68.5 | 66.0 | 71.0 | 70 | 68.5 | Fine | 1.2 |
| 23-Jan-21 | 10:22 | 64.2 | 59.5 | 65.5 | 70 | 64.2 | Fine | 0.7 |
| 29-Jan-21 | 10:29 | 63.0 | 59.5 | 64.0 | | 63.0 | Sunny | 0.7 |

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

NMS 13 Lek Yuen Estate

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------------|-----------------|-----------------|-----------------|--------------|--------------------------|--------------------------|-------|------|
| Date Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillit Level | Construction Noise Level | Weather | Speed | |
| | | | | | (m/s) | | | |
| 6-Jan-21 | 10:18 | 65.8 | 63.5 | 67.5 | | 65.8 | Fine | 0.6 |
| 12-Jan-21 | 14:00 | 69.0 | 65.5 | 72.0 | 75 | 69.0 | Fine | 0.6 |
| 23-Jan-21 | 13:41 | 64.7 | 61.0 | 66.5 |] '3 | 64.7 | Fine | 0.6 |
| 29-Jan-21 | 08:30 | 69.1 | 66.0 | 71.5 | | 69.1 | Sunny | 8.0 |

NMS 14 Sheung Wo Che

| ININO 14 OIL | tung WO O | 116 | | | | | | |
|-----------------|-----------|-----------------|---------------------|--------------------------------------|-------------|--------------------------|-------|------|
| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
| Date Start Time | L_{eq} | L ₉₀ | L ₁₀ | Limit Level Construction Noise Level | Weather | Speed (m/s) | | |
| | | | Unit: dB(A) 30 Mins | | | | | |
| 6-Jan-21 | 13:37 | 64.0 | 61.5 | 66.0 | | 64.0 | Fine | 0.4 |
| 12-Jan-21 | 12:05 | 54.0 | 53.5 | 59.5 | 75 | 54.0 | Fine | 0.9 |
| 23-Jan-21 | 14:53 | 63.9 | 59.0 | 65.0 | 75 | 63.9 | Fine | 0.9 |
| 29-Jan-21 | 15:43 | 59 9 | 55.0 | 61.0 | 1 | 59.9 | Sunny | 0.7 |

NMS 15 Ha Wo Che

| Date | Start Time | Meas L _{eq} | ured Noise L ₉₀ | L ₁₀ | Limit Level | Construction Noise Level | Weather | Wind Speed (m/s) |
|-----------|------------|-------------------------|-------------------------------|-----------------|-------------|--------------------------|---------|------------------------|
| 5-Jan-21 | 15:38 | 68.6 | 62.5 | 70.0 | | 68.6 | Fine | 1.1 |
| 11-Jan-21 | 08:30 | 67.5 | 61.0 | 70.0 | 75 | 67.5 | Fine | 0.3 |
| 22-Jan-21 | 13:35 | 62.7 | 59.5 | 65.0 | , , , | 62.7 | Sunny | 1.1 |
| 28-Jan-21 | 10:16 | 63.9 | 61.0 | 66.0 | | 63.9 | Sunny | 0.8 |

NMS 16 Ha Wo Che

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind | | | |
|-----------------|----------|-----------------|---------------------|---------------|---------------------------|--------------------------|----------------|------|--|--|--|
| Date Start Time | L_{eq} | L ₉₀ | L ₁₀ | Lilling Ecver | Gonsti detion Noise Ecver | Weather | Speed (m/s) | | | | |
| | | | Unit: dB(A) 30 Mins | | | | | | | | |
| 5-Jan-21 | 15:04 | 63.2 | 60.5 | 64.5 | | 63.2 | Fine | 0.9 | | | |
| 11-Jan-21 | 09:15 | 67.0 | 60.5 | 69.5 | 7.5 | 67.0 | Fine | 1.0 | | | |
| 22-Jan-21 | 14:06 | 62.6 | 59.0 | 65.0 | 75 | 62.6 | Sunny | 0.9 | | | |
| 28-Jan-21 | 10:50 | 63.8 | 59.0 | 66.5 | | 63.8 | Sunny | 1.2 | | | |

NMS 17 Shatin Pui Ying College

| | At W | . g | , - | | | | | |
|-----------|------------|----------------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
| Date | Start Time | L_{eq} | L ₉₀ | L ₁₀ | Lillin Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | :: dB(A) 30 Mir | ns | | (m/s) |
| 6-Jan-21 | 09:39 | 63.6 | 60.0 | 65.5 | | 63.6 | Fine | 0.9 |
| 12-Jan-21 | 15:07 | 63.4 | 60.5 | 66.0 | 70 | 63.4 | Fine | 0.9 |
| 23-Jan-21 | 11:03 | 62.6 | 58.5 | 63.5 | 1 70 | 62.6 | Fine | 1.7 |
| 29-Jan-21 | 09:06 | 63.3 | 60.5 | 65.0 | | 63.3 | Sunny | 1.2 |

^{*}Note: The examination schedule was provide in Appendix E.

NMS 18 Ha Wo Che

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------------|-----------------|-----------------|---------------------|--------------|--------------------------|--------------------------|-------|-------|
| Date Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillit Level | Constitution Noise Level | Weather | Speed | |
| | | | Unit: dB(A) 30 Mins | | | | | (m/s) |
| 5-Jan-21 | 14:31 | 61.2 | 58.0 | 64.0 | | 61.2 | Fine | 0.7 |
| 11-Jan-21 | 09:59 | 68.4 | 61.0 | 71.0 | 75 | 68.4 | Fine | 1.0 |
| 22-Jan-21 | 14:42 | 59.4 | 54.0 | 62.5 | 75 | 59.4 | Sunny | 0.8 |
| 28-Jan-21 | 11:23 | 61.2 | 57.5 | 62.0 | | 61.2 | Sunny | 1.0 |

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

NMS 19 Wo Che Estate

| | | Measured Noise Level Limit Level Construction Noise Level | | | | | | Wind | | | |
|-----------------|-----------------|---|-----------------|--------------|--------------------------|---------|-------|------|--|--|--|
| Date Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillin Level | Construction Noise Level | Weather | Speed | | | | |
| | | | | Unit | :: dB(A) 30 Mir | | (m/s) | | | | |
| 6-Jan-21 | 09:04 | 67.0 | 65.5 | 70.0 | | 67.0 | Fine | 0.6 | | | |
| 12-Jan-21 | 13:39 | 65.1 | 62.0 | 67.0 | 75 | 65.1 | Fine | 1.2 | | | |
| 23-Jan-21 | 13:00 | 67.4 | 65.0 | 69.0 |] '3 | 67.4 | Fine | 0.7 | | | |
| 29-Jan-21 | 11:08 | 66.0 | 64.5 | 68.5 | | 66.0 | Sunny | 0.9 | | | |

NMS 20 Wo Che Estate

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind | | | |
|-----------|------------|-----------------|-----------------|-----------------|-----------------|--------------------------|---------|-------|--|--|--|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lilling Lover | Construction Noise Ecver | Weather | Speed | | | |
| | | | | Unit | :: dB(A) 30 Mir | ns | | (m/s) | | | |
| 6-Jan-21 | 08:30 | 66.4 | 64.0 | 68.0 | | 66.4 | Fine | 0.6 | | | |
| 12-Jan-21 | 14:16 | 58.7 | 55.5 | 61.0 | 75 | 58.7 | Fine | 1.2 | | | |
| 23-Jan-21 | 11:38 | 68.6 | 65.5 | 71.0 |] '3 | 68.6 | Fine | 0.9 | | | |
| 29-Jan-21 | 11:46 | 67.3 | 65.5 | 70.5 | | 67.3 | Sunny | 0.7 | | | |

NMS 23 Pai Tau

| 14100 20 1 0 | ii i uu | | | | | | | |
|--------------|------------|-----------------|-----------------|-----------------|-----------------|---------------------------|---------|-------|
| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
| Date Start | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillin Lovei | Constituction Noise Ecver | Weather | Speed |
| | | | | | :: dB(A) 30 Mir | ıs | | (m/s) |
| 5-Jan-21 | 16:17 | 68.6 | 66.0 | 72.0 | | 68.6 | Fine | 0.4 |
| 11-Jan-21 | 10:46 | 69.5 | 64.0 | 72.0 | 75 | 69.5 | Fine | 0.6 |
| 22-Jan-21 | 12:40 | 63.9 | 60.5 | 66.0 |] | 63.9 | Sunny | 0.9 |
| 28-Jan-21 | 09:41 | 64.1 | 59.5 | 66.5 | | 64.1 | Sunny | 0.6 |

NMS 24 Shatin Plaza

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date S | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lillin Level | Construction Noise Level | Weather | Speed |
| | | | | | :: dB(A) 30 Mir | ıs | | (m/s) |
| 6-Jan-21 | 15:42 | 67.0 | 63.5 | 68.5 | | 67.0 | Fine | 0.9 |
| 12-Jan-21 | 14:39 | 68.5 | 65.0 | 70.0 | 75 | 68.5 | Fine | 1.2 |
| 23-Jan-21 | 09:03 | 67.6 | 63.5 | 69.0 | 15 | 67.6 | Fine | 1.2 |
| 29-Jan-21 | 12:58 | 63.0 | 61.0 | 64.5 | | 63.0 | Sunny | 0.7 |

NMS 25A Sheung Wo Che

| Date | Start Time | Meas L _{eq} | ured Noise L ₉₀ | L ₁₀ | Limit Level | Construction Noise Level | Weather | Wind Speed |
|-----------|------------|-------------------------|-------------------------------|-----------------|-------------|--------------------------|---------|---------------|
| | | | | | (m/s) | | | |
| 6-Jan-21 | 14:58 | 71.6 | 67.5 | 74.0 | | 71.6 | Fine | 0.4 |
| 12-Jan-21 | 10:57 | 59.8 | 52.0 | 61.0 | 75 | 59.8 | Fine | 1.1 |
| 23-Jan-21 | 16:10 | 66.8 | 65.5 | 68.0 | 1 73 | 66.8 | Fine | 0.5 |
| 29-Jan-21 | 14:24 | 61.9 | 53.5 | 65.5 | | 61.9 | Sunny | 0.8 |

NMS 26 Wo Che Estate

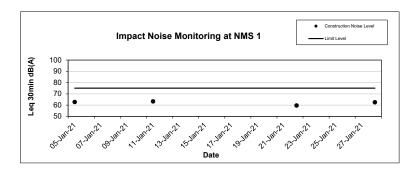
| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Lilling Level | | Weather | Speed |
| | | | | Unit | :: dB(A) 30 Mir | ıs | | (m/s) |
| 6-Jan-21 | 16:58 | 68.4 | 65.5 | 71.0 | | 68.4 | Fine | 0.4 |
| 12-Jan-21 | 15:54 | 67.3 | 65.5 | 71.0 | 75 | 67.3 | Fine | 0.6 |
| 23-Jan-21 | 16:53 | 67.5 | 65.0 | 70.5 |] " | 67.5 | Fine | 0.6 |
| 29-Jan-21 | 17:11 | 67.6 | 64.5 | 69.0 | | 67.6 | Sunny | 0.3 |

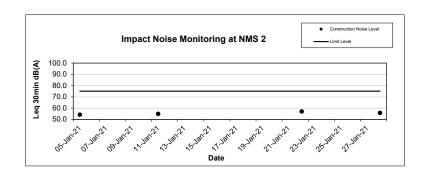
NMS 27 Jockey Club Ti-I College

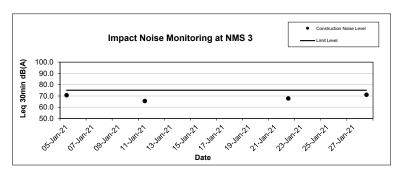
| Date | Start Time | Meas L _{eq} | ured Noise L ₉₀ | Level L ₁₀ | Limit Level | Construction Noise Level | Weather | Wind Speed |
|-----------|------------|-------------------------|-------------------------------|--------------------------|----------------|--------------------------|---------|---------------|
| | | -eq | | | : dB(A) 30 Mir | ns | | (m/s) |
| 5-Jan-21 | 13:50 | 64.3 | 61.0 | 66.0 | | 64.3 | Fine | 0.5 |
| 11-Jan-21 | 11:22 | 68.5 | 63.0 | 70.0 | 70 | 68.5 | Fine | 0.6 |
| 22-Jan-21 | 13:46 | 64.0 | 61.0 | 65.5 | 70 | 64.0 | Sunny | 0.9 |
| 28-Jan-21 | 11:39 | 63.9 | 59.5 | 65.0 | | 63.9 | Sunny | 1.2 |

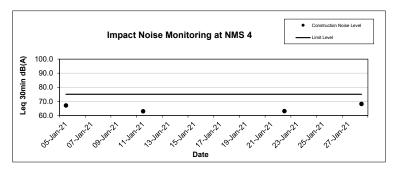
*Note: The examination schedule was provide in Appendix E.

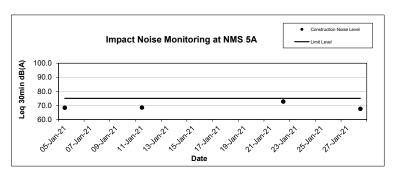
 $\label{eq:Calculated} \mbox{Calculated CNL = Measured Noise Level during operation} - \mbox{Baseline (} \mbox{ dB(A))}.$

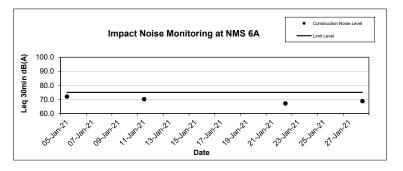


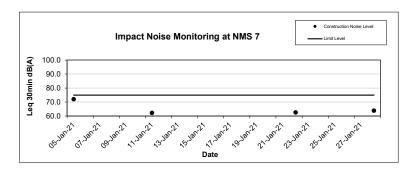


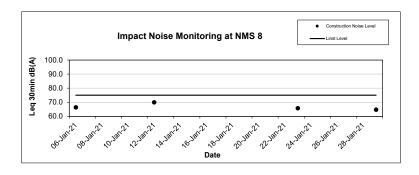


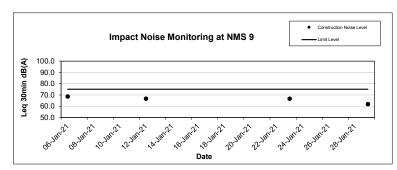


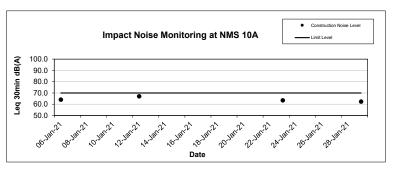


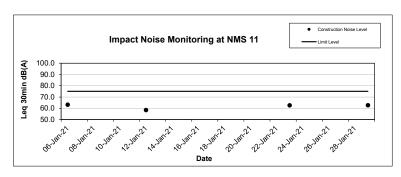


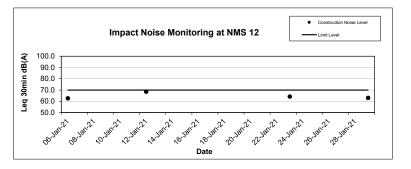


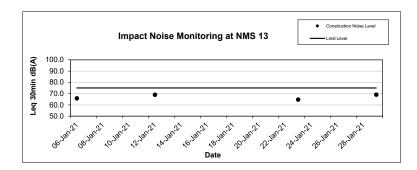


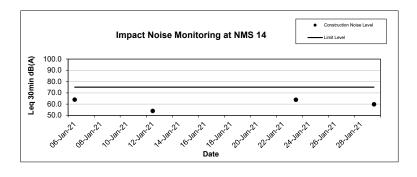


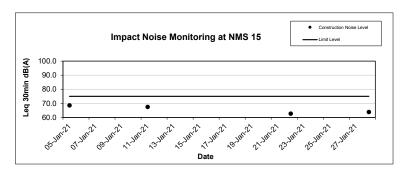


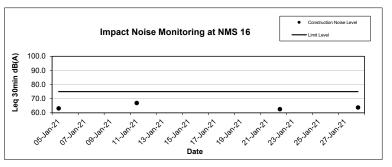


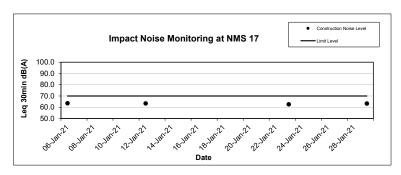


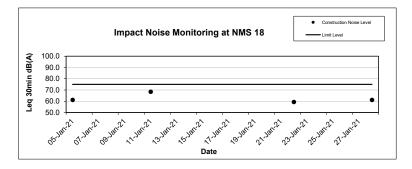


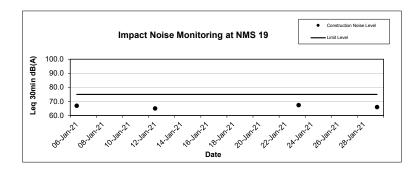


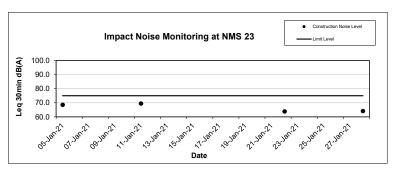


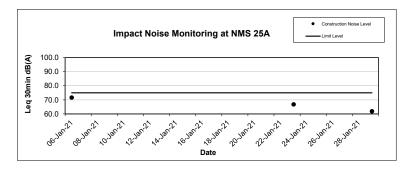


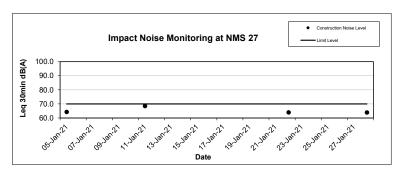


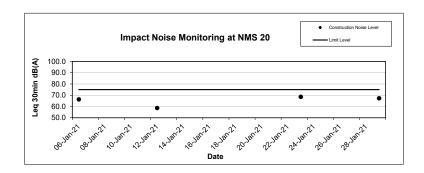


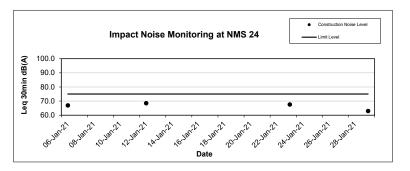


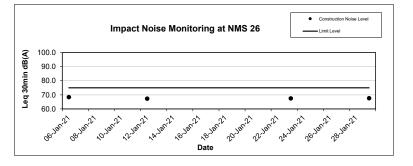












Night Time Noise Monitoring Result for NOD 03-2018 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section)

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) |
|-----------|------------|---------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 7-Jan-21 | 23:00 | 59.1 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |
| 14-Jan-21 | 23:00 | 60.1 | 61.4 | 52.8 - 66.3 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.5</td></baseline<> | Fine | 1.5 |
| 21-Jan-21 | 23:01 | 60.3 | 01.4 | 52.6 - 00.5 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<> | Fine | 1.2 |
| 28-Jan-21 | 23:00 | 61.0 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |

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) | |
|-----------|------------|---------------------------------|---------------------|---------------------------|------------------------|--|---|------------------------|-----|
| 8-Jan-21 | 02:36 | 47.5 | | | 55 | Measured Noise Level <limit level<="" td=""><td>Fine</td><td>8.0</td></limit> | Fine | 8.0 | |
| 15-Jan-21 | 02:34 | 47.5 | 49.7 | 40.1 - 58.2 | 55 | 55 Measured Noise Level <limit level<="" td=""><td>Fine</td><td>1.5</td></limit> | Fine | 1.5 | |
| 22-Jan-21 | 02:30 | 49.0 | 49.7 | 49.7 | 40.1 - 36.2 | 55 | Measured Noise Level <limit level<="" td=""><td>Fine</td><td>1.0</td></limit> | Fine | 1.0 |
| 29-Jan-21 | 02:15 | 50.3 | | | 55 | Measured Noise Level <limit level<="" td=""><td>Fine</td><td>8.0</td></limit> | Fine | 8.0 | |

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) |
|-----------|------------|---------------------------------|---------------------|---------------------------|--|---|---------|------------------------|
| 7-Jan-21 | 23:00 | 62.7 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |
| 14-Jan-21 | 23:06 | 62.4 | 70.9 | 60.2 - 78.9 | 55 Measured Noise Level <baseline< td=""><td>Measured Noise Level<baseline< td=""><td>Fine</td><td>1.6</td></baseline<></td></baseline<> | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<> | Fine | 1.6 |
| 21-Jan-21 | 23:00 | 61.6 | 70.9 | 00.2 - 70.9 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<> | Fine | 1.2 |
| 28-Jan-21 | 23:05 | 62.1 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<> | Fine | 0.8 |

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) |
|-----------|------------|---------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 8-Jan-21 | 03:36 | 55.2 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |
| 15-Jan-21 | 03:42 | 56.2 | 62.6 | 53.1 - 68.1 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.5</td></baseline<> | Fine | 1.5 |
| 22-Jan-21 | 03:40 | 58.7 | 02.0 | 33.1 - 00.1 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<> | Fine | 1.2 |
| 29-Jan-21 | 03:42 | 58.4 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |

NMS 5A Wai Wah Centre

| Date | Start Time | Average Leq (15 min) (dB(A)) | Baseline (dB(A)) | Baseline Range (dB(A)) | Limit Level (dB(A)) | Corrected Noise Level (dB(A)) | Weather | Wind Speed (m/s) |
|-----------|------------|---------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 7-Jan-21 | 23:23 | 67.7 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |
| 14-Jan-21 | 23:26 | 67.8 | 67.9 | 62.0 - 75.2 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<> | Fine | 1.6 |
| 21-Jan-21 | 23:29 | 66.3 | 07.0 | 02.0 - 70.2 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<> | Fine | 1.3 |
| 28-Jan-21 | 23:24 | 64.9 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |

NMS 6A Wai Wah Centre

| Date | Start Time | Average Leq (15 min) (dB(A)) | Baseline (dB(A)) | Baseline Range (dB(A)) | Limit Level (dB(A)) | Corrected Noise Level (dB(A)) | Weather | Wind Speed (m/s) |
|-----------|------------|---------------------------------|---------------------|---------------------------|--|---|---------|------------------------|
| 7-Jan-21 | 23:38 | 68.4 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |
| 14-Jan-21 | 23:30 | 68.5 | 71.5 | 65.0 - 85.9 | 55 Measured Noise Level <baseline< td=""><td>Measured Noise Level<baseline< td=""><td>Fine</td><td>1.6</td></baseline<></td></baseline<> | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<> | Fine | 1.6 |
| 21-Jan-21 | 23:34 | 69.7 | 71.5 | 05.0 - 65.9 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<> | Fine | 1.2 |
| 28-Jan-21 | 23:30 | 68.3 | | | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>8.0</td></baseline<> | Fine | 8.0 |

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) |
|-----------|------------|------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 8-Jan-21 | 03:13 | 55.0 | | 51.4 - 65.5 | 55 | Measured Noise Level <limit level<="" td=""><td>Fine</td><td>8.0</td></limit> | Fine | 8.0 |
| 13-Nov-20 | 03:13 | 55.8 | 59.0 | 51.4 - 65.5 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<> | Fine | 1.6 |
| 22-Jan-21 | 03:16 | 57.4 | 33.0 | 51.4 - 65.5 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<> | Fine | 1.3 |
| 29-Jan-21 | 03:12 | 56.9 | | 51.4 - 65.5 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |

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) |
|-----------|------------|---------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 7-Jan-21 | 23:59 | 63.3 | | 55.6 - 72.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<> | Fine | 0.8 |
| 14-Jan-21 | 23:46 | 62.2 | 64.4 | 55.6 - 72.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<> | Fine | 1.6 |
| 21-Jan-21 | 23:44 | 63.9 | 04.4 | 55.6 - 72.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<> | Fine | 1.3 |
| 28-Jan-21 | 23:40 | 61.7 | 1 | 55.6 - 72.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |

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) |
|-----------|------------|------------------------------|---------------------|---------------------------|------------------------|-------------------------------|---------|------------------------|
| 8-Jan-21 | 00:28 | 57.3 | | 39.5 - 63.1 | 55 | 55.0* | Fine | 0.9 |
| 15-Jan-21 | 00:31 | 57.2 | 53.5 | 39.5 - 63.1 | 55 | 54.7* | Fine | 1.6 |
| 22-Jan-21 | 00:30 | 56.7 | 55.5 | 39.5 - 63.1 | 55 | 53.8* | Fine | 1.3 |
| 29-Jan-21 | 00:27 | 57.1 | | 39.5 - 63.1 | 55 | 54.6* | Fine | 0.9 |

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) |
|-----------|------------|------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 8-Jan-21 | 02:30 | 52.6 | | 46.1 - 62.8 | 55 | Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit> | Fine | 0.6 |
| 15-Jan-21 | 02:33 | 54.9 | E2 2 | 46.1 - 62.8 | 55 | Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.6</td></limit> | Fine | 0.6 |
| 22-Jan-21 | 02:35 | 55.1 | 53.2 | 46.1 - 62.8 | 55 | 50.5* | Fine | 0.6 |
| 29-Jan-21 | 02:30 | 55.1 | | 46.1 - 62.8 | 55 | 50.6* | Fine | 0.3 |

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

NMS 13 Lek Yuen Estate

| Date | Start Time | Average Leq (15 min) (dB(A)) | Baseline (dB(A)) | Baseline Range (dB(A)) | Limit Level (dB(A)) | Corrected Noise Level (dB(A)) | Weather | Wind Speed (m/s) |
|-----------|------------|------------------------------|---------------------|---------------------------|------------------------|-------------------------------|---------|------------------------|
| 8-Jan-21 | 00:10 | 57.6 | | 45.4 - 72.5 | 55 | 46.2* | Fine | 0.9 |
| 13-Nov-20 | 00:13 | 59.2 | 57.3 | 45.4 - 72.5 | 55 | 54.6* | Fine | 1.5 |
| 22-Jan-21 | 00:14 | 57.6 | 37.3 | 45.4 - 72.5 | 55 | 45.9* | Fine | 1.2 |
| 29-Jan-21 | 00:10 | 58.6 | | 45.4 - 72.5 | 55 | 52.7* | Fine | 0.9 |

Note:

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

NMS 14 Sheuna Wo Che

| itimo 14 onoung vvo ono | | | | | | | | | | | |
|-------------------------|------------|---------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|--|--|--|
| 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) | | | |
| 8-Jan-21 | 01:45 | 53.8 | | 46.1 - 62.8 | 55 | Measured Noise Level <limit level<="" td=""><td>Fine</td><td>0.9</td></limit> | Fine | 0.9 | | | |
| 15-Jan-21 | 01:48 | 53.5 | 54.1 | 46.1 - 62.8 | 55 | Measured Noise Level <limit level<="" td=""><td>Fine</td><td>1.6</td></limit> | Fine | 1.6 | | | |
| 22-Jan-21 | 01:50 | 54.8 | 54.1 | 46.1 - 62.8 | 55 | Measured Noise Level <limit level<="" td=""><td>Fine</td><td>1.3</td></limit> | Fine | 1.3 | | | |
| 29-Jan-21 | 01:43 | 55.0 | | 46.1 - 62.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 | | | |

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) |
|-----------|------------|------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 8-Jan-21 | 01:26 | 57.0 | | 48.4 - 69.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>8.0</td></baseline<> | Fine | 8.0 |
| 15-Jan-21 | 01:28 | 57.5 | 58.8 | 48.4 - 69.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<> | Fine | 1.6 |
| 22-Jan-21 | 01:32 | 58.3 | 30.0 | 48.4 - 69.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.1</td></baseline<> | Fine | 1.1 |
| 29-Jan-21 | 01:30 | 58.0 | | 48.4 - 69.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>8.0</td></baseline<> | Fine | 8.0 |

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) |
|-----------|------------|---------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 8-Jan-21 | 02:11 | 59.0 | | 51.4 - 69.5 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<> | Fine | 0.8 |
| 15-Jan-21 | 02:13 | 60.6 | 60.1 | 51.4 - 69.5 | 55 | 51.4* | Fine | 1.6 |
| 22-Jan-21 | 02:15 | 59.4 | 00.1 | 51.4 - 69.5 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<> | Fine | 1.2 |
| 29-Jan-21 | 02:10 | 58.5 | | 51.4 - 69.5 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |

Note:

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

NMS 18 Ha Wo Che

| Date | Start Time | Average Leq (15 min) (dB(A)) | Baseline (dB(A)) | Baseline Range (dB(A)) | Limit Level (dB(A)) | Corrected Noise Level (dB(A)) | Weather | Wind Speed (m/s) |
|-----------|------------|------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 8-Jan-21 | 01:46 | 57.5 | | 56.0 - 72.1 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>8.0</td></baseline<> | Fine | 8.0 |
| 15-Jan-21 | 01:49 | 58.6 | 63.2 | 56.0 - 72.1 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<> | Fine | 1.6 |
| 22-Jan-21 | 01:46 | 59.8 | 05.2 | 56.0 - 72.1 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<> | Fine | 1.2 |
| 29-Jan-21 | 01:41 | 60.3 | | 56.0 - 72.1 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>8.0</td></baseline<> | Fine | 8.0 |

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) |
|-----------|------------|---------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 8-Jan-21 | 00:44 | 61.1 | | 53.8 - 72.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>8.0</td></baseline<> | Fine | 8.0 |
| 13-Nov-20 | 00:46 | 61.2 | 61.7 | 53.8 - 72.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<> | Fine | 0.0 |
| 22-Jan-21 | 00:41 | 60.1 | 01.7 | 53.8 - 72.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<> | Fine | 1.2 |
| 29-Jan-21 | 00:36 | 60.8 | | 53.8 - 72.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |

NMS 20 Wo Che Estate

| | Allie 20 Tro Olio 20tato | | | | | | | | | | | |
|-----------|--------------------------|---------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|--|--|--|--|
| 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) | | | | |
| 8-Jan-21 | 01:00 | 55.6 | | 48.6 - 71.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 | | | | |
| 15-Jan-21 | 01:08 | 57.1 | 57.7 | 48.6 - 71.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.0</td></baseline<> | Fine | 0.0 | | | | |
| 22-Jan-21 | 01:04 | 57.0 | 37.7 | 48.6 - 71.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<> | Fine | 1.2 | | | | |
| 29-Jan-21 | 01:00 | 57.0 | | 48.6 - 71.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 | | | | |

NMS 23 Pai Tau

| I TIMO EO I G | 1110 20 1 di 1 dd | | | | | | | | | | | | |
|---------------|-------------------|---------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|--|--|--|--|--|
| 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) | | | | | |
| 8-Jan-21 | 02:10 | 58.4 | | 47.8 - 69.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 | | | | | |
| 15-Jan-21 | 02:11 | 58.7 | 59.9 | 47.8 - 69.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<> | Fine | 1.6 | | | | | |
| 22-Jan-21 | 02:16 | 59.4 | 59.9 | 47.8 - 69.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<> | Fine | 1.3 | | | | | |
| 29-Jan-21 | 02:12 | 59.5 | Ĭ | 47.8 - 69.8 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>8.0</td></baseline<> | Fine | 8.0 | | | | | |

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) |
|-----------|------------|------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 7-Jan-21 | 23:44 | 57.6 | 58.0 | 50.2 - 66.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |
| 14-Jan-21 | 23:40 | 58.9 | | 50.2 - 66.7 | 55 | 51.8* | Fine | 1.5 |
| 21-Jan-21 | 23:45 | 59.0 | | 50.2 - 66.7 | 55 | 52.0* | Fine | 1.2 |
| 28-Jan-21 | 23:41 | 58.0 | | 50.2 - 66.7 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |

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

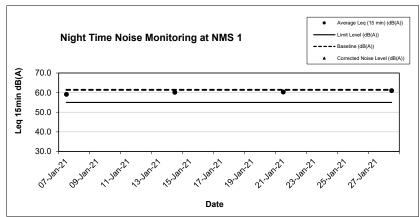
NMS 25A Sheung Wo Che

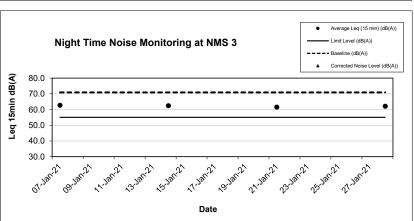
| Date | Start Time | Average Leq (15 min) (dB(A)) | Baseline (dB(A)) | Baseline Range (dB(A)) | Limit Level (dB(A)) | Corrected Noise Level (dB(A)) | Weather | Wind Speed (m/s) |
|-----------|------------|------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 8-Jan-21 | 02:49 | 59.4 | 59.7 | 50.3 - 68.4 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.8</td></baseline<> | Fine | 0.8 |
| 15-Jan-21 | 02:48 | 57.5 | | 50.3 - 68.4 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.6</td></baseline<> | Fine | 1.6 |
| 22-Jan-21 | 02:50 | 58.3 | | 50.3 - 68.4 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.2</td></baseline<> | Fine | 1.2 |
| 29-Jan-21 | 02:47 | 58.3 | | 50.3 - 68.4 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.4</td></baseline<> | Fine | 0.4 |

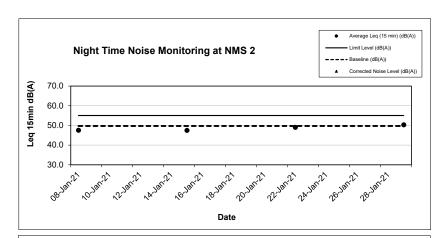
NMS 26 Wo Che Estate

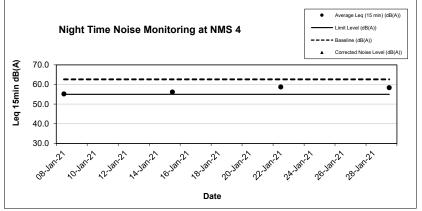
| Date | Start Time | Average Leq (15 min) (dB(A)) | Baseline (dB(A)) | Baseline Range (dB(A)) | Limit Level (dB(A)) | Corrected Noise Level (dB(A)) | Weather | Wind Speed (m/s) |
|-----------|------------|------------------------------|---------------------|---------------------------|------------------------|---|---------|------------------------|
| 8-Jan-21 | 01:16 | 61.4 | 61.2 | 45.7 - 70.1 | 55 | 48.6* | Fine | 0.9 |
| 15-Jan-21 | 01:18 | 61.4 | | 45.7 - 70.1 | 55 | 48.7* | Fine | 1.5 |
| 22-Jan-21 | 01:20 | 60.4 | | 45.7 - 70.1 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>1.3</td></baseline<> | Fine | 1.3 |
| 29-Jan-21 | 01:13 | 59.5 | | 45.7 - 70.1 | 55 | Measured Noise Level <baseline< td=""><td>Fine</td><td>0.9</td></baseline<> | Fine | 0.9 |

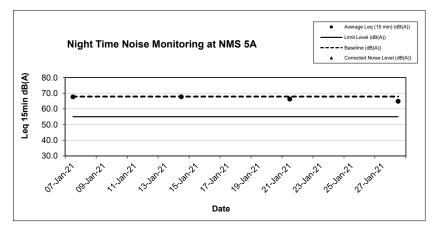
Note: *Corrected Noise Level in Leq (15min) dB(A) was/were lower than Limit level: 55 dB(A).

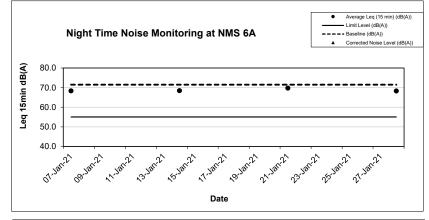


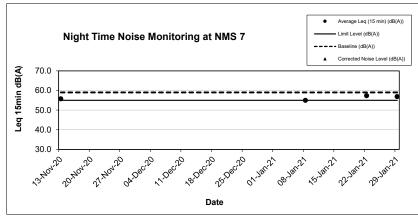


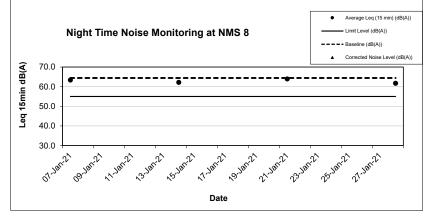


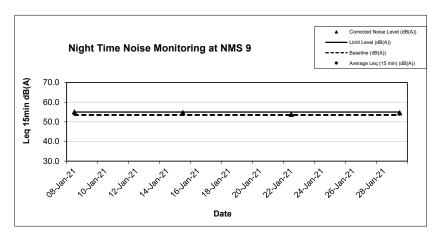


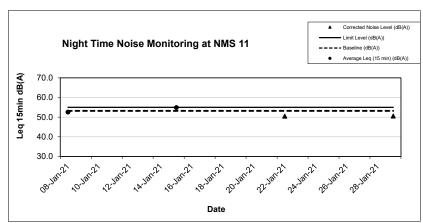


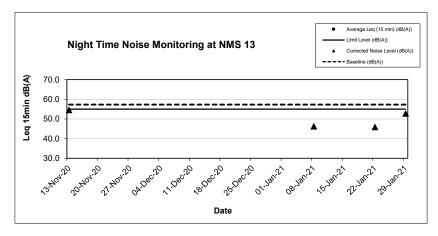


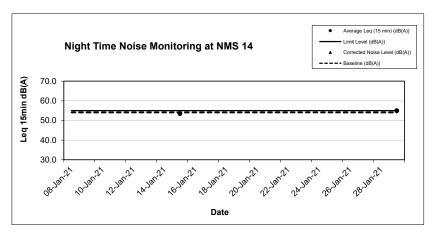


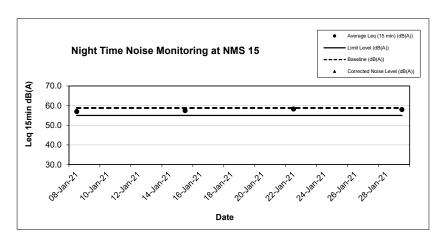


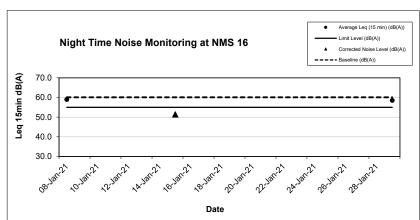


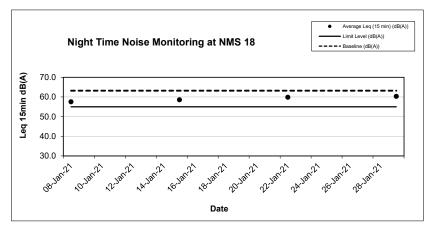


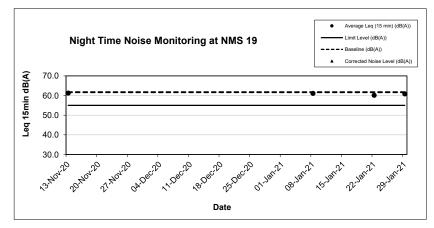


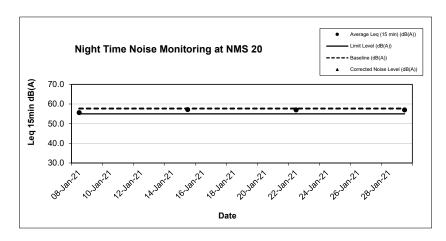


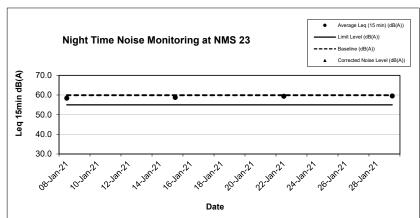


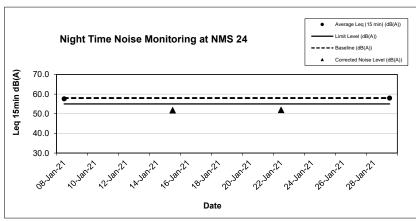


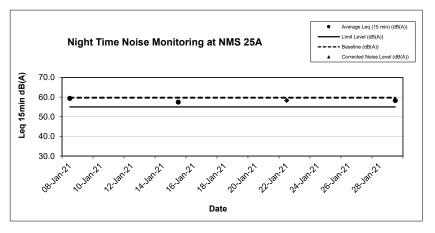


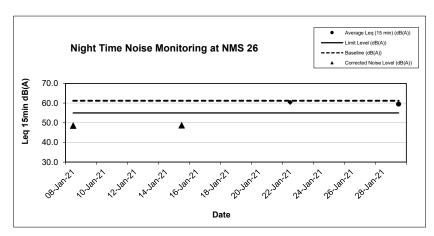












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Appendix H

Events and Action Plan

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Event and Action Plan for Construction Dust Monitoring

| EVENT | Event and Action Plan for Construction Dust Monitoring ACTION | | | | | | | | | | |
|--|---|---|---|---|--|--|--|--|--|--|--|
| EVENI | ET Leader | IEC | SO | Contractor | | | | | | | |
| Action Level | Li Leauei | ILO | 30 | Contractor | | | | | | | |
| 1. Exceedance for one sample | Identify the source. Inform the IEC and the SO. Repeat measurement to confirm findings. Increase monitoring frequency to daily. | Check monitoring data submitted by the ET Leader. Check Contractor's working method. | Notify Contractor. | Rectify any unacceptable practice. Amend working methods if appropriate. | | | | | | | |
| 2. Exceedance for two or more consecutive samples | Identify the source. Inform the IEC and the SO. Repeat measurement to confirm findings. Increase monitoring frequency to daily. Discuss with the IEC and the Contractor on remedial actions required. If exceedance continues, arrange meeting with the IEC and the SO. If exceedance stops, cease additional monitoring. | Check monitoring data submitted by the ET Leader. Check the Contractor's working method. Discuss with the ET Leader and the Contractor on possible remedial measures. Advise the SO on the effectiveness of the proposed remedial measures. Supervisor implementation of remedial measures. | 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Ensure remedial measures properly implemente d. | 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. Exceedance | Notify the IEC, the SO and the EPD and the | Discuss amongst the SO, ET | Confirm receipt of | Take immediate action to avoid | | | | | | | |

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



| EVENT | | ACTION | | |
|-------------------------------------|---|---|--|--|
| | ET Leader | IEC | SO | Contractor |
| for two or more consecutive samples | 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. | 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. | 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. | 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. |

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Event and Action Plan for Noise Impact

| EVENT | | ACTION | J | |
|-----------------|--|--|--|--|
| | ET Leader | IEC | SO | Contractor |
| Action Level | Notify the IEC and the Contractor. Carry out investigation. Report the results of investigation to the IEC. Discuss with the Contractor and formulate remedial measures. 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. | Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. | Submit noise mitigation proposals to IEC. Implement noise mitigation proposals. |
| Limit Level | Notify the IEC, the SO and the Contractor. Identify the source. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform the IEC, the SO and the EPD the causes & actions taken for the exceedance. Assess effectiveness if the Contractor's remedial actions and keep the IEC and the SO informed of the results. 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. |

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Event and Action Plan for Landscape and Visual Impact

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

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Appendix I

Waste Flow Table

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



| Waste Flow Table for Year 2018 | | | | | | | | | | | |
|--------------------------------|---|---|---------------------------|--------------------------|----------------------------|---------------|---|----------------------------------|--------------------------|-------------------|-----------------------------------|
| | | Actual Quan | tities of Inert C&I | O Materials Gene | rated Monthly | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
| Monthly Ending | 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 |

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



| Waste Flow | Table for Year | 2019 | _ | | _ | _ | _ | | _ | | _ |
|-------------------|--|---|---------------------------|-----------------------------|----------------------------|---------------|---|----------------------------|--------------------------|----------------|--------------------------------|
| | | Actual Qua | antities of Inert C& | D Materials Genera | ited Monthly | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
| Monthly Ending | 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 |

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| Waste Flow | Table for Year | 2020 | | | | | | | | | |
|-------------------|--|---|---------------------------|-----------------------------|----------------------------|---------------|---|----------------------------|--------------------------|----------------|--------------------------------|
| | | Actual Qua | antities of Inert C& | D Materials Genera | ited Monthly | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
| Monthly Ending | 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 m³.
- 4) Updated data for previous month.

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| Waste Flow Table for Year 2021 | | | | | | | | | | | |
|--------------------------------|--|---|---------------------------|-----------------------------|----------------------------|---------------|---|----------------------------|--------------------------|----------------|--------------------------------|
| | | Actual Qua | entities of Inert C& | D Materials Genera | ted Monthly | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
| Monthly Ending | 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 | | | | | | | | | | | |
| 2021 Mar | | | | | | | | | | | |
| 2021 Apr | | | | | | | | | | | |
| 2021 May | | | | | | | | | | | |
| 2021 Jun | | | | | | | | | | | |
| Sub-Total | 3.196 | 0.000 | 0.000 | 0.000 | 3.196 | 0.000 | 0.001 | 0.048 | 0.855 | 0.000 | 0.053 |
| 2021 Jul | | | | | | | | | | | |
| 2021 Aug | | | | | | | | | | | |
| 2021 Sep | | | | | | | | | | | |
| 2021 Oct | | | | | | | | | | | |
| 2021 Nov | | | | | | | | | | | |
| 2021 Dec | | | | | | | | | | | |
| Total | 3.196 | 0.000 | 0.000 | 0.000 | 3.196 | 0.000 | 0.001 | 0.048 | 0.855 | 0.000 | 0.053 |

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 data for previous month.

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Appendix J

Environmental Mitigation Implementation Schedule (EMIS)

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



| EIA Review Ref | Location | Environmental Protection Measures/ | Implementation Agent | Implementation Status in Construction Phase |
|--------------------------------|--------------------------|--|-------------------------|---|
| | | Noise Measures | | |
| | | Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A). | Contractor | Implemented |
| | | • PME is recommended to operate in sub-grouping, and different sub-groups shall not be operated concurrently within any half hour period | Contractor | Implemented |
| | | • The construction activities should be carried out in the daytime hours (0700 – 1900). Construction Noise Permit (CNP) for constriction activities is required during evening or night time hours. | Contractor | Implemented |
| 3.10.2, 3.10.3, 3.10.14, | | • 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 |
| 3.10.15 and Table 3.10 | | Use of well-maintained and regularly-serviced plant during the works. | Contractor | Implemented |
| Table 3.10 | NACCO CONTRACTOR | • Plant operating on intermittent basis should be turned off or throttled down when not in active use. | Contractor | Implemented |
| | Within the boundaries of | • Plant that is known to emit noise strongly in one direction should be orientated to face away from the NSRs. | Contractor | Implemented |
| | all construction | Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works. | Contractor | Not Applicable |
| | sites. | 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 | | The use of particular plant with equipment quieter than those specified in the GW-TM are recommended to reduce the noise levels generated by the plant. | Contractor | Not Applicable |
| Table 3.3 | | Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes | Contractor | Not Applicable |
| | | • Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone. | Contractor | Implemented |
| 3.10.6 to 3.10.9 | | • 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/m² 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 | Not Applicable |

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



| 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 | Not Applicable |
| | | • For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided. | Contractor | Not Applicable |
| | | • Barrier material of surface density of at least 14 kg/m² is recommended in order to achieve the necessary screening effect. | Contractor | Not Applicable |
| 3.10.10 | | • Full noise enclosures should cover the PME or fixed plants such as air compressor. | Contractor | Not Applicable |
| | | Silencers, mufflers and enclosures for plant should be used where possible and maintained adequately throughout the works; | Contractor | Not Applicable |
| 3.10.3 | | Where possible fixed plants should be sited away from NSRs; and | Contractor | Not Applicable |
| | | Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works. | Contractor | Not Applicable |
| | | Air Quality Measures | | |
| | | The Contractor shall notify any specific construction works as stated in the Air Pollution Control (Construction Dust) Regulation to the Authority before the commencement of such work. Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be implemented to control dust emissions from all construction work sites. | Contractor | Implemented |
| 4.12.1 and | boundaries of | 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. | | Partially Implemented |
| 4.12.2 | construction | • 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 | Partially Implemented |

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



| 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 |
| | | • Stockpiles of sand, aggregate or any other dusty materials greater than 20m³ shall be enclosed on three sides, with walls extending above the pile and 1 meter beyond the front of the pile. | Contractor | Implemented |
| | | Suitable chemical wetting agent such as dust suppression chemical shall be used on completed cuts and fills to reduce wind erosion. | Contractor | Not Observed |
| | | Areas within the construction site where there is a regular movement of vehicles shall have a paved surface and be kept clear of loose surface material. | Contractor | Implemented |
| | | 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. | | 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. | | Implemented |
| 4.12.1 | | • 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. | | Not Applicable |
| | | 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. | | Not Applicable |
| | | • In the event of any spoil or debris from construction works being deposited on adjacent land, or steams, or any slit being washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the Engineer. | Contractor | Not Applicable |
| | | If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas. | Contractor | 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. | | Implemented |

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



| EIA Review Ref | Location | Environmental Protection Measures/ | Implementation Agent | Implementation Status in Construction Phase |
|-----------------------|------------|--|-------------------------|---|
| 4.12.1, 4.13.1 and | | •Construction dust monitoring shall be carried out at representative monitoring locations during the construction period. | Contractor | Implemented |
| Table 8.2 | | Path for complaints and handling procedures should be set up and implement. | Contractor | Implemented |
| | | Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005. | Contractor | Implemented |
| NA | | Plant and equipment should be well maintained to prevent dark smoke emission. | Contractor | Implemented |
| | | Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site. | Contractor | Implemented |
| | | Water Quality Measures | | |
| | | 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: | | Implemented |
| | Within the | • Construction works should be programmed so as to minimise excavation during the wet season (April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm. | Contractor | Implemented |
| 5.7 | all | 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. | | Implemented |
| | | • Stock piles of construction materials, sand and gravel or excavated material should be covered with tarpaulins prior to rainstorms. The washing of material from the stockpiles directly into the storm drains should be prevented by passing the run off through a sediment trap. | Contractor | Partially Implemented |
| | | • The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be constructed prior to the commencement of site formation and earthworks. | Contractor | Implemented |
| | | • The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained | Contractor | Partially Implemented |

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| 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 | Not Applicable |
| | | • Plant maintenance areas should be paved to prevent waste oils soaking into the ground. Where possible the area should be undercover to minimise the formation of runoff and any runoff from the paved area passed through an oil trap before being discharged to the storm drains. Fuel storage tanks should be surrounded by bunds with a capacity of at least 150% of the storage capacity. The bunded areas should be able to be drained of rain water through the petrol interceptor and accumulated rain removed at regular intervals. | Contractor | Not Applicable |
| | | • Waste oils from the site should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance and absorbent cloths and granules should be available for the cleanup of spillages. | | Not Applicable |
| | | Sewage from toilets and kitchens should be discharged directly into a foul sewer. If it is not possible to locate the site offices within easy access of a foul sewer a septic tank and soakaway should be constructed before the offices are occupied. Chemical toilets should be emptied on a daily basis and the contents taken to a foul sewer or the Sha Tin Sewage Treatment Works for disposal. | Contractor | Implemented |

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| 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. All discharges into foul sewers and storm sewers should have to be complied with TM standards under WPCO. | | |
| | | Run off from roofed surfaces of site facilities should be collected and diverted to a storm water drain. Passage through a silt trap is only required if the water is diverted via open .channels which might accumulate solids during non-rainy periods or which intercept surface run off from unpaved areas. | | Implemented |
| | | Discharges from the site shall be required to meet the terms and conditions of a valid WPCO Water Pollution Control Ordinance (WPCO). | Contractor | Implemented |
| | | Regular site inspection of the construction works shall be carried out to determine compliance with the Inspection should be included: | e recommended n | nitigation measures. |
| | | (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 | Partially Implemented |
| Section 12.6 of the | | (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 |
| Approved EIA Report | | (v) The use of washwater for hosing down concrete mixing and delivery vehicles and other vehicles leaving the site and the routine of excess water from the facility through sediment traps. | Contractor | Not Applicable |
| | | (vi) The operation of the plant maintenance areas to control small spillages and the correct management of the fuel storage bunded area. | Contractor | Not Applicable |
| | | (vii) The connection of the site office wastewater discharge to an existing foul sewer if appropriate or the operation of the kitchen wastewater grease trap and the regular emptying of the chemical toilets | Contractor | Not Applicable |
| | | (viii)The operation of the roof rain water collection and drainage system. | Contractor | Not Applicable |
| | | Landscape and Visual Mitigation Measures | | |
| | | Construction Phase | | |
| Table 6.5 | | • Existing trees shall be preserved as much as possible. Detailed tree preservation and transplanting proposals shall be submitted to relevant government departments for approval in accordance with DEVB TC (W) No. 7/2015. | | Implemented |
| | Project Boundary. | 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 |

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| 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 | Not Applicable |
| | | Decorative screen hoarding with design compatible with the surrounding landscape setting shall be erected along the southern boundary of Tai Po Road to mitigate any potential adverse impact on adjacent Pedestrian and Cyclists on Footpath/Bicycle Track. | Contractor | Not Applicable |
| | | Operation Phase | | |
| | | • Compensatory planting shall be provided within and outside the project boundary where possible. Detailed compensatory planting proposal will be prepared in accordance with DEVB TC (W) No. 7/2015. | Contractor | Not Applicable |
| | During construction | • 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 |
| | within the Project Boundary. | • Provision of visually pleasing noise barriers and enclosures design shall be proposed. The design of these structures aims to minimize any potential visual impact and visually integrate the proposed structures into the adjacent landscape context. This should be achieved through the use of form, color, tones, materials and planting materials. | Contractor | Not Applicable |
| | | Aesthetically pleasing hard landscape treatment of the carriageway and roadside furniture shall be proposed, including development of chromatic themes in the architectural treatment of engineering structures, and the consideration of landscape lighting and special landscape features. | Contractor | Not Applicable |
| | | • Shrubs and climbers planting are proposed on the facade of Noise Enclosures and Barriers to mitigate any adverse impact on adjacent VSRs in area where space for tree planting is not feasible. | Contractor | Not Applicable |
| | | <u>Waste Management Measures</u> | | |
| 7.6.2 to 7.6.4 | all | • 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 |

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| 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 |
| | | Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimization of waste generation in the hierarchy. | Contractor | Partially Implemented |
| 7.6.5 to 7.6.6 | | Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste. | Contractor | Implemented |
| | | Specific measures targeting the mitigation of impacts in works areas and the transportation of spoil off-site should be provided to minimize the potential impacts to the surrounding environment. | Contractor | Implemented |
| 7.6.7 | Within the boundaries of all | • 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 |
| | construction | The contractor's environmental performance shall be monitored and controlled through the weekly en environmental walks shall include: | vironmental walks | . The items after the |
| | | 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 |
| | n routes to | The environmental performance of the contractor and his sub-contractors; | Contractor | Implemented |
| | designed areas for off- | • The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and | Contractor | Implemented |
| 7.6.8 to 7.6.9 | of . | • The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site. | Contractor | Implemented |
| | activities. | Waste shall only be disposed of at licensed sites and the WMP should include procedures to ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&D materials and non-inert C&D materials at public 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 |

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| 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 | Implemented |
| | | • In order to minimize the impact resulting from collection and transportation of C&D material for off- site disposal, the excavated fill materials should be reused on site as backfill material as far as possible. | | Implemented |
| | | Careful design, planning and good site management should be maintained in order to minimise over ordering and generation of surplus materials such as concrete, mortars and cement grouts. The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic facing should be considered to increase the potential for reuse. | Contractor | Implemented |
| 7.6.11 to 7.6.14 | | C&D materials should be segregated on site into different waste and material types. The Contractor should clearly demonstrate in the EMP how he intends to maximise the reuse of C&D material on-site. Where reuse of materials on site is not feasible, the Contractor should explore opportunities for recycling materials off-site, and inert C&D materials shall be reused on site as much as possible. | Contractor | Implemented |
| | | Paving bricks arising from existing pavement should be recycled on site as much as possible. | Contractor | Not Applicable |
| | | • Existing marginal roadside barriers comprise pre-cast units should be reused in the following widening works as much as possible, | Contractor | Not Applicable |
| | | • Existing bridge parapets comprise aluminum post and railings, which have a recyclable value and should be sold for reconditioning or reused for scrap metal as much as possible | Contractor | Not Applicable |
| | | • Any stockpile should be sited away from existing watercourses and suitably covered to prevent wind erosion and impacts on air and water quality. | Contractor | Implemented |
| 7.6.15 to | | • Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handl as follows. Containers used for the storage of chemical wastes should: | ing and Storage | of Chemical Wastes |
| 7.6.17 | | • be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; | Contractor | Implemented |

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| 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 | 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; | | 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 chemica (Chemical Waste) (General) Regulation will require disposal by appropriate means and could require 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 | | 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 | Implemented |
| | | Separate labelled bins should be provided if feasible. | Contractor | Not Observed |
| | | • Office waste can be reduced through recycling of paper if volume is large enough to warrant collection. Participation in a local collection scheme should be considered if one is available. | Contractor | Implemented |
| 7.7.1 | | All wastes produced during the construction of the Project shall be handled, stored, and disposed of in accordance with good waste management practices and relevant regulations and requirements. | Contractor | Partially Implemented |

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| EIA Review Ref | Location | Environmental Protection Measures/ | Implementation Agent | Implementation Status in Construction Phase |
|-------------------|---------------------------------------|--|-------------------------|---|
| | | • 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 | construction within the Project | • 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 / Implemented / Not Implemented / Not Observed / Not Applicable

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Appendix K

Weather and Meteorological Conditions during Reporting Month

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

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| | Mean | | Air Temperature |) | Mean Relative | Total |
|------|-------------------|---------------------|------------------|---------------------|------------------|------------------|
| Date | Pressure (hPa) | Maximum (deg. C) | Mean (deg. C) | Minimum (deg. C) | Humidity (%) | Rainfall (mm) |
| | | | January 2021 | | | |
| 1 | 1025.5 | 15 | 11.8 | 8.6 | 40 | - |
| 2 | 1022.9 | 17.8 | 14 | 10.4 | 52 | = |
| 3 | 1021.9 | 20.6 | 16.7 | 13.4 | 65 | - |
| 4 | 1021 | 20.7 | 18.3 | 16.9 | 66 | - |
| 5 | 1020.1 | 21.9 | 18.8 | 17.3 | 65 | - |
| 6 | 1020 | 19.6 | 17.1 | 16 | 72 | - |
| 7 | 1020.8 | 18.3 | 15.3 | 10.6 | 67 | - |
| 8 | 1025 | 10.7 | 9.1 | 7.7 | 52 | - |
| 9 | 1024.5 | 13.1 | 10.7 | 8 | 38 | - |
| 10 | 1023.5 | 15.2 | 12.8 | 11 | 40 | - |
| 11 | 1025.8 | 12.4 | 10.6 | 9.2 | 44 | - |
| 12 | 1023.6 | 15.7 | 11.9 | 8.6 | 33 | - |
| 13 | 1019.8 | 17.8 | 13.4 | 10.4 | 48 | - |
| 14 | 1017.8 | 19.5 | 15.2 | 11.8 | 55 | - |
| 15 | 1016.1 | 20.9 | 17.3 | 14.6 | 59 | - |
| 16 | 1017.4 | 20.3 | 17.6 | 15.8 | 68 | - |
| 17 | 1023.5 | 19.6 | 16.6 | 14.1 | 58 | - |
| 18 | 1023.3 | 17.3 | 14.2 | 11.7 | 53 | - |
| 19 | 1020.3 | 17.4 | 15.4 | 12.6 | 64 | = |
| 20 | 1018.1 | 21.4 | 18.2 | 16.1 | 69 | = |
| 21 | 1015.6 | 22.8 | 20.1 | 17.6 | 73 | - |
| 22 | 1013.4 | 24.5 | 20.3 | 18.2 | 80 | - |
| 23 | 1014 | 24.4 | 20.2 | 17.7 | 78 | - |
| 24 | 1017.1 | 20 | 18.4 | 17.3 | 83 | Trace |
| 25 | 1017.6 | 22.9 | 19.2 | 16.9 | 74 | - |
| 26 | 1016.9 | 23.5 | 19.6 | 17.4 | 78 | - |
| 27 | 1017.8 | 21.9 | 18.9 | 17.6 | 77 | - |
| 28 | 1020.7 | 22.8 | 19.1 | 16.5 | 70 | - |
| 29 | 1022.6 | 19.7 | 16.6 | 14.3 | 60 | - |
| 30 | 1022.5 | 19.5 | 16.7 | 14.8 | 68 | _ |
| 31 | 1021.6 | 21.6 | 18.4 | 16 | 67 | |

Source: Hong Kong Observatory

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Appendix L

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

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

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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 | 2/2/2019 | EPD | CCZJV | Noise | 13/2/2019 | 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. | 20/2/2019 |
| COM-2019- 006 | 22/2/2019 | Project Hotline of NE/2017/05 | CCZJV | Noise | 26/2/2019 | 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 | 4/3/2019 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|-------------------------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | modify the existing semi-enclosure installed in the cherry picker Also, three sides with top as a semi-enclosure to be used and those tree felling activities should be inside the semi-enclosure in the ground slope. The main contractor had been recommended to review their works program and methods of tree felling as to minimize the night time tree felling activities. | |
| COM-2019- 0010 | 28/3/2019 | Project Hotline of NE/2017/05 | CCZJV | Noise | 28/3/2019 | 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 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. | 4/4/2019 |
| COM-2019- 0033 | 26/7/2019 | Police visit on-site | CCZJV | Noise | 26/7/2019 | 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 | 30/7/2019 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | 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. | |
| COM-2019- 0045 | 30/8/2019 | 1823 | CCZJV | Noise | 30/8/2019 | 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 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. | 19/9/2019 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|--|----------------|------------------------|-----------------------|--|---------------|
| COM-2019- 0056 | 9/10/2019 | Project Hotline of NE/2017/05 and 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. | 4/11/2019 |
| COM-2019- 0057 | 9/10/2019 | 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 | 21/10/2019 |

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| Reference No. | Date of Complaint Received | Received From | Received By | Nature of Complaint | Date of Investigation | Investigation summary & Conclusion | Date of Reply |
|-------------------|----------------------------------|-----------------------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | 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. | |
| COM-2019- 0066 | 6/11/2019 | EPD | CCZJV | Noise | 7/11/2019 | The complaint of the emergency road repair work is related to the project. The works on on 5 th November 2019 between 22:00 and 06:00 the next day at southbound slow lane of Tai Po Road outside Wai Wah Centre, including breaking operation. The main contractor should inform the EPD in advance of any emergency opening works of the Project in future to facilitate the effective handling of noise complaint that may arise. | 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 | 19/03/2020 |

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|-------------------|----------------------------------|--------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | 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. | |
| 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 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. | 07/04/2020 |

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|-------------------|----------------------------------|--------------------|----------------|------------------------|-----------------------|--|---------------|
| 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 | 04/05/2020 |
| COM-2020- 0091 | 28/03/2020 | Project hotline | CCZJV | Noise | 28/03/2020 | unloading works. ET conduct regular night-time noise monitoring at all monitoring stations between 23:00 26 th March 2020 to 04:00 27 th March 2020, and between 23:00 2 nd April 2020 to 04:00 3 rd April respectively. No exceedance cases were found on both ET regular night-time noise monitoring measurement. ET did not remark onsite 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. | 04/03/2020 |
| COM-2020- 0093 | 06/04/2020 | Project hotline | CCZJV | Noise | 06/04/2020 | The complaint case on 6 th Apr was received by project hotline. The major construction works between (10:00pm – 11:00pm) on 6 th April 2020 was TTA implementation works and asphalt removal works for the road surface remedial work | 28/04/2020 |

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|-------------------|----------------------------------|--------------------|----------------|---------------------|-----------------------|---|---------------|
| | | | | | | at zone 2 adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on loading and unloading works. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. The night time noise monitoring results measured at NMS3, 4 & 6A were all lower than that of measured in the baseline, two exceedance case were found at NMS 5A especially NMS 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 | |
| COM-2020- 0097 | 20/04/2020 | Project Email | CCZJV | Noise | 20/04/2020 | filed three complaints about the noise nuisance generated by the nearby construction activities | |
| COM-2020- 0098 | 21/04/2020 | Project hotline | CCZJV | Noise | 21/04/2020 | during daytime. Two complaints were made through project hotline on 20 th Apr 2020 at 10:57 a.m. and 21 st Apr 2020 at 9:03 a.m., while the other one was through project email on 20 th Apr 2020 at 12:43 p.m. The noise source(s) of the concerned nuisance during complaint period | 19/05/2020 |

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|-------------------|----------------------------------|--------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | should be mini piling works, which is opposite to Wai Wah Centre. According to the contractor's work schedule, major day work activity was minipiling 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 20 th & 21 st 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 20 th and 21 st Apr 2020 was carried out at non restricted hours with green tarpaulin curtain and sound proof canvas. The noise level of NMS 5A and NMS 6A on 22 nd 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 22 nd Apr 2020 was similar to 20 th and 21 st Apr 2020. Therefore, ET's day-time monitoring result on 22 nd April 2020 at NMS5A and NMS6A can act as a reference for impact noise from the similar mini-piling operation on 20 th and 21 st 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 | 05/05/2020 |

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|-------------------|----------------------------------|--------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | nuisance during night works was at zone 2 is opposite to Wai Wah Centre. The major construction works was road surface remedial work since 15 th April 2020 conducted at restricted hours along zone 2 south boundary adjacent to Wai Wah Centre. The Main Contractor complied with CNP No.: GW-RN0152-20 that is within the allowable construction site location and within the site boundary to carry out night work on road surface remedial works. Environmental Team (ET) conduct a regular night-time noise monitoring at all monitoring stations between 23:00 23 rd April 2020 to 04:00 24 th April 2020. The five noise monitoring stations close to the concerned works area are NMS3, NMS4, NMS5A, NMS6A & NMS7, and NMS5A & NMS6A locate nearest to Wai Wah Centre. There were no exceedance on the night time noise monitoring, especially measured at NMS 5A & NMS 6A where locate at the Wai Wah Centre, the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. Therefore, no exceedance cases were found on ET regular night-time noise monitoring measurement. ET analyzed that the dominant noise source should be road traffic noise but not the project-related construction noise. | |
| COM-2020- 0100 | 23/04/2020 | Project hotline | CCZJV | Noise | 23/04/2020 | The complaint was received via project hotline on 23 rd April 2020 at 10:45 a.m. A resident of Wai Wah Centre complained that noise generated from operation of the two piling machines | 11/05/2020 |

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|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | disturbing her daughter's study for DSE examination, and demanding limitation on operation hours of the machines only at two separate periods between 12 noon and 1p.m and 3 p.m. to 6 p.m. According to the Main Contractor, the major construction works at day time (08:00-18:00) on 23 rd April 2020 was mini-piling operation at Zone 2 Central Median of Tai Po Road near Wai Wah Centre. According to the photo records of day-time site condition on 23rd April 2020 provided by Main Contractor, the green tarpaulin curtain was provided for the mini-pile drilling machines so that the bottom part of the mini-pile drilling machine was blocked from view of nearby NSR (e.g. residents at Wai Wah Centre) and an additional layer of sound proof canvas was installed at lower level to mitigate the noise from mini-pile drilling operation. The day-time noise monitoring results measured at NMS3, 4, 5A, 6A and 7 were all lower than the limit level, especially NMS 5A & NMS 6A monitoring stations where locate at the Wai Wah Centre. The monitoring results show no noise exceedance occurred at both locations. Thus, ET day-time monitoring result on 22 nd April 2020 at NMS5 & NMS6 can be act as a reference for impact noise from the similar mini-piling operation activities on 23 rd April 2020. Therefore, there was no exceedance cases were found in ET regular day-time noise monitoring measurement. ET analyzed that the dominant noise source should be road | |

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|-------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | traffic noise but not the project-related construction noise. | |
| 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 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 | 15/05/2020 |

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| | | | | | | 26 th March 2020 in accordance with the CNP advice that prior notification should be given to nearby residents. Besides, the road re-surfacing work would be carried out at approximately 14 night-time works between 2 nd and 28 th April 2020 listed in the distributed notices. No exceedance cases were found on ET regular night-time noise monitoring measurement at all noise monitoring stations, especially measured at NMS 5A & NMS 6A where locate close to the works area (Wai Wah Centre in Zone 2), the measured result at NMS 5A & 6A were all lower than that of measured in the baseline. 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 10 th November 2020 complained about water discharge onto the traffic lanes of Northbound towards Sha Tin Section of Tai Po Highway. According to the Main Contractor, there is one active site access located at Zone 1 (R1) near Pai Tau, site access no. is N02. Restricted opening hours of the site access Zone 1 (R1) is between 10:00 to 16:00. The operation which might be related to the complaint was water flow from water-filled barriers before the opening of site access and no water spilling onto the traffic lanes from the access area of Zone 1 (R1). The released water was directed towards to the work areas facing Zone 1 (R1) and no water was flowed towards the high-speed road | 27/11/2020 |

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|-------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | or traffic lanes. ET conducted ad-hoc site inspection on 17 th November 2020. ET had no particular findings related to the complaint and conducted trial to open the bottom of the water barrier valve for testing and checking on the water flow to the construction site at Zone 1. Contractor performed well on environmental preventive measures for soil or silt leakage protection as impervious sheet with sand bags had been 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 20 th November 2020 complained about the noise generated from the night-time asphalt laying construction works between Sha Tin Station and nearby Wo Che Estate. Although the main contractor no work at zone 5, but the major night-time construction works was road surface remedial work which was related to the complainant concerned. According to the Main Contractor, the major construction works was road surface remedial work since 19 th November 2020 conducted at restricted hours along zone 3 to zone 4 north bound of Tai Po Road Sha Tin section. 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 | 7/12/2020 |

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|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|--|---------------|
| | | | | | | "SilentCUBE" with four sides and a top cover at asphalt removal works to mitigate. The Main Contractor was reminded to pay attention to CNP other condition 3.d.3, the electric hand-held breaker shall only be used for carrying out construction work between 22:00 – 23:30 hours. It is prohibited to use the electric hand-held breaker beyond the CNP condition 3.d.3 stated that the using limitation on 23:30. The Main Contractor was reminded to re-arrange their proposed night-time construction activities to fulfill the complainant expectation that noise emitting work should be paused during 00:00 to 06:00 sleeping time. | |
| 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 | 23/12/2020 |

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|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | 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. | |
| COM- 2020154 | 27/11/2020 | 1823 | CCZJV | Noise | 30/11/2020 | The complaint was received via ICC1823 on 27 th November 2020, the complainant expressed concern of construction noise nuisances near Wo Che Estate at around 01:14 am on 27 th November 2020. According to the Main Contractor, there were no construction works near Wo Che Estate (Zone 5) on 26^27 November 2020. The major construction works were works related to removal of central median (at night-time) under the approved road closure with CNP no.GW-RN0799-20. According to Main Contractor EO Kimberly, she sent prior notification to the EPD on 20 th November 2020 through logging in the webpage of EPD before the 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 | 14/12/2020 |

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|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | 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- 2020155 | 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 | 5/1/2021 |

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| | | | | | | AM13; and AMS13 locate nearest to Zone 5. The ET regular air quality results measured at AMS13 and AM12 in November 2020 and on the 3rd December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action 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- 2020157 | 7/12/2020 | STDC | CCZJV | Dust | 7/12/2020 | 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 | 29/12/2020 |

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| | | | | | | close to the date of complaint, at selected air monitoring stations AMS5, AMS4A, AMS7A & AMS12. ET regular day-time air quality monitoring measurement results at air quality monitoring stations AMS12, closest to Zone 5. The ET regular air quality results measured at AM12 on 3rd, 9th & 15th December 2020 show that there was no exceedance case found in air quality monitoring measurement and the results were all below the action level. The Main Contractor was reminded to reduce the travelling speed of transportation vehicles on site and plan the schedule of delivery transport in order to reduce dust impact. The Main Contractor proposed to continue in maintaining the coverings on exposed slopes in good condition for minimizing dust impact. The Main Contractor proposed to increase water spraying at area where active movements of vehicle transportation occur. | |
| COM- 2020161 | 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- | 5/1/2021 |

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|------------------|----------------------------------|------------------|----------------|------------------------|-----------------------|---|---------------|
| | | | | | | 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. 3.12 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 and NMS26 were lower than that of measured in | |

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|------------------|----------------------------------|------------------|----------------|------------------------|--------------------------|---|---------------|
| | | | | | | 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. | |

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Cumulative Statistics on Complaints

| Environmental Parameters | Cumulative No. Brought Forward | No. of Complaints This Month | Cumulative Project- to-Date |
|-----------------------------|-----------------------------------|---------------------------------|--------------------------------|
| Air | 2 | 0 | 2 |
| Noise | 22 | 0 | 22 |
| Water | 2 | 0 | 2 |
| Waste | 0 | 0 | 0 |
| Total | 26 | 0 | 26 |

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 | 0 | 0 | 0 |
| Water | 0 | 0 | 0 |
| Waste | 0 | 0 | 0 |
| Total | 0 | 0 | 0 |

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Appendix M

Summary of Site Audit in the Reporting Month

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

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Summary of Site Audit in the Reporting Month

| Parameters | Date | Observations and Recommendations | Follow-up | | |
|-----------------------------------|--|--|---|--|--|
| | 7 Jan 2021 | Reminder: 1. Contractor was reminded to provide water spray for construction area at Zone 5 to prevent dust spread. | • | | |
| Air Quality | 14 Jan 2021 | Observation: 1. Provide mitigation measure (e.g canvas covering) for the stockpile of excavated material to prevent dust impact (Zone 3). | (Zone 3) The Stockpile has been covered properly. (Zone 3) Water | | |
| | 00.10004 | Provide mitigation measure (e.g water spraying) to suppress dust emission (RE7). Observation: | spraying has been provided. 1. (Zone 3) Water | | |
| | 28 Jan 2021 | 1. The frequency of water spray should be increased to reduce the dust impact (Zone 3). | spraying has been provided. | | |
| Noise | No specific obs | servation was identified in the reporting month. | | | |
| Water Quality | 21 Jan 2021 | Observation: 1. Clean up the sediment in the desilting tank (TPT408) at Zone 3. | 1. (Zone 3) Sedimentation Tank has been cleared. | | |
| | 7 Jan 2021 | Observation: 1. General Waste should be cleared at Work Area B to maintain good site condition. | 1. (Work Area B) Debris has been removed. | | |
| Chemical and Waste | 14 Jan 2021 | Observation: 1. Clean up the oil stain with absorbent material and treated it as chemical waste for disposal (RW7). Reminder: | (Zone 3) Contaminated soil has been removed and stored properly. | | |
| Management | | 1. Remove stagnant water or oil in the drip tray (RW7). | | | |
| | 28 Jan 2021 | Observation: 1. Drip tray should be provided for chemicals to prevent chemical leakage. | 1. (Zone 3) Chemical drums have been removed. | | |
| Land Contamination | No deficiency was found during the reporting month. | | | | |
| Landscape and Visual Impact | No specific observation was identified in the reporting month. | | | | |
| General Condition | No specific observation was identified in the reporting month. | | | | |
| Permit / Licenses | No specific observation was identified in the reporting month. | | | | |