

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



Our ref: ASCL-2018010

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

Attention: Miss FUNG Cannifer

30 April 2019

Dear Miss Fung,

NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) Quarterly EM&A Report for Dec 2018 to Feb 2019

I refer to the email of ET regarding to the captioned Quarterly EM&A Report with report No. 0064/18/ED/0271B, we have no adverse comment on it and verify this quarterly report according to section 1.9 of the Environmental Permit with Permit No. EP 463/2013/B

Yours faithfully,

Li Wai Ming Kevin Independent Environmental Checker

cc. CRE – Mr. YU Albert (by email only: albert.yu@aecom.com) ET Leader – Mr. WONG Tony (by email only: wl.wong@fugro)

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 Date
 30 April 2019

 Our Ref.
 MCL/ED/0223/2019/C

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

BY HAND & E-MAIL

Dear Ms. Lau,

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

Environmental Permit: EP-463/2013B Submission of Quarterly EM&A Report (0064/18/ED/0271B)

Pursuant to Updated EM&A Manual Section 8.7, we hereby submit three hardcopies and two e-copy of the quarterly EM&A Report (0064/18/ED/0271B) for your retention. This quarterly EM&A Report has been certified by ETL and verified by IEC accordingly.

Thank you for your attention, should there be any comments or queries, please contact our Environmental Team Leader David Hung at 3565-4371 or the undersigned at 3565-4441.

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

David Hung Environmental Team Leader

| C.C. | CEDD | Attn: Mr. Andrew Cheung / Ms. Cannifer Fung (by E-mail) |
|------|-------|---|
| | AECOM | Attn: Mr. Albert Yu / Mr. Bobby Hung / Mr. Andrew Cheng / |
| | | Ms. Kate Chen / Ms. Catherine Tam (by E-mail) |
| | IEC | Attn: Mr. Kevin Li / Mr. Tandy Tse (by E-mail) |
| | CCZJV | Attn: Mr. Chung Sing Chu / Ms. Kimberly Wong / Mr. Alvin Chan (by E-mail) |

Encl.





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QUARTERLY EM&A REPORT

December 2018 – February 2019

| Client : | | Civil Engineering and Development Department, HKSAR |
|-----------------|---|--|
| Contract No. | : | NDO 03/2018 |
| Contract Name : | | Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) |
| Report No. | : | 0064/18/ED/0271B |

| Prepared by | : | Sang Y. S |
|-------------|---|------------|
| Reviewed by | : | Cvrus C. Y |

Y. S. Wu

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7. Lai

Certified by 2

Tony W. L. Wong Environmental Team Leader Fugro Technical Services Limited



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EXECUTIVE SUMMARY

- i. The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the Project and implement the EM&A works.
- ii. This is the first Quarterly EM&A Report presents the environmental monitoring and audit works for the period between 29 November 2018 and 28 February 2019. As informed by the Contractor, major activities in the reporting period included:

| December 2018 | January 2019 | February 2019 |
|---|---|---|
| Site clearance, utilities detection, trail pit by hand digging and implementation of temporary traffic arrangement at Zone 1 and Zone 2; Site clearance, utilities detection and trail pit by hand digging at Zone 3, Zone 4 and Zone 5; and General cleaning and tidying at storage area at Shui Chong Street. | Utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 1 and Zone 2; Tree felling, utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 3, Zone 4; Utilities detection and trail pit at Zone 5; and General cleaning and tidying and containers office setup at storage area at Shui Chong Street. | Tree felling, utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 1, Zone 3 and Zone 4; and Utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 2, Zone 5. |

Breaches of the Action and Limit Levels

iii. No Action / Limit Level exceedance was recorded for 24-hr and 1-hr TSP and construction noise at the site area in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

- iv. Two complaint cases were received during the reporting period. A complaint received on 13/2/2019 referred from EPD regarding noise from tree-felling works by using chain saw near Lek Yuen Estate Kwai Wo House on 1 am. Another complaint received on 22/2/2019 from project hotline of NE/2017/05 regarding the noise generated from the tree felling works during the midnights. After ET's investigation, the complaint cases were considered project-related.
- v. No notification of summons and successful prosecution were received in the reporting period.



1. INTRODUCTION

1.1 Background

- 1.1.1 Contract No. NE/2017/05 Road Widening and Retrofitting Noise Barriers on Tai Po Road (Sha Tin Section) (TPR-ST) (hereafter referred as "the Contract"), is the Works Contract involved the construction of road widening and retrofitting noise barriers on TPR-ST.
- 1.1.2 The Works of road widening on TPR-ST is classified as a designated project (DP) under the Part I of Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499). The scale and scope of DP is classified as below:
 - Widening and reconstruction of an approximate 1.2 km long of the existing Tai Po Road (Sha Tin Section) from dual 2-lane to dual 3-lane carriageway; and improvement of the existing Sha Tin Rural Committee Road and its junctions.
- 1.1.3 The Environmental Monitoring and Audit (EM&A) programme under this Contract is governed by the Environmental Permit (EP) (EP No: EP-463/2013/B) and the updated EM&A Manual (Reference No.: 0064/18/ED/0122D). The Works to be executed under this Contract and corresponding EPs include but not be limited to the following main items:
 - (i) Road widening works of TPR-ST:
 - (a) widening of TPR-ST of about 1.1 kilometres between Sha Tin Rural Committee Road (STRCR) and Fo Tan Road from dual two-lane to dual three-lane;
 - (b) modification to the existing diamond interchange at TPR-ST / STRCR (STRCR Interchange);
 - (c) provision of two pedestrian lifts, re-provision of staircase and cycle track ramp at the modified STRCR Interchange;
 - (d) modification of existing cycle track subway no. NS30 near Sha Tin Plaza;
 - (e) modification of the existing footbridge no. NF40 across TPR-ST near Wo Che Street;
 - (f) modification of the existing footbridge no. NF66 near Fung Wo Lane;
 - (g) installation of noise mitigation measures between Citylink Plaza and Mei Wo House of Wo Che Estate;
 - (h) associated drainage works, waterworks, street lighting works and traffic control and surveillance system (TCSS).
 - (ii) Retrofitting of noise barriers along TPR-ST:
 - (a) western section between Citylink Plaza and Scenery Court;
 - (b) eastern section between Mei Wo House of Wo Che Estate and Fo Tan Road; and
 - (c) associated drainage works, waterworks and street lighting works.



- (iii) Associated street furniture, road marking, traffic signs, directional signs, services and utilities, and
- (iv) Associated landscaping works.
- 1.1.4 The location and boundary of the site is shown in **Figure 1**.
- 1.1.5 This guarterly 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.
- This is the first guarterly EM&A Report which summarized the impact monitoring results and 1.1.6 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 29 November 2018 and 28 February 2019.

1.2 **Project Organization**

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

| Party | Position | Position Name | | | | |
|--|---|-------------------|-----------|--|--|--|
| Project Proponent (CEDD) | Senior Engineer | Mr. Andrew Cheung | 3152 3500 | | | |
| Engineer's Representative (AECOM) | Chief Resident Engineer | Mr. Albert Yu | 2276 0618 | | | |
| IEC (Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture) | Independent Environmental Checker | Mr. Kevin Li | 9779 2247 | | | |
| Main Contractor (CCZJV) | Site Agent | Mr. Alvin Chan | 9800 9494 | | | |
| | Environmental Officer | Ms. Kimberly Wong | 5542 1669 | | | |
| ET (FTS) | Environmental Team Leader | Mr. Tony Wong | 3565 4443 | | | |

Table 1.1 Contact Information of Key Personnel

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1.3 Construction Programme and Activities

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

| December 2018 | January 2019 | February 2019 |
|---|---|---|
| Site clearance, utilities detection, trail pit by hand digging and implementation of temporary traffic arrangement at Zone 1 and Zone 2; Site clearance, utilities detection and trail pit by hand digging at Zone 3, Zone 4 and Zone 5; and General cleaning and tidying at storage area at Shui Chong Street. | Utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 1 and Zone 2; Tree felling, utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 3, Zone 4; Utilities detection and trail pit at Zone 5; and General cleaning and tidying and containers office setup at storage area at Shui Chong Street. | Tree felling, utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 1, Zone 3 and Zone 4; and Utilities detection, trail pit and implementation of temporary traffic arrangement at Zone 2, Zone 5. |

1.4 Status of Environmental Licences, Notifications and Permits

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

| Table 1.2 | Relevant Environmental Licenses, Permits and/or Notifications |
|-----------|---|
|-----------|---|

| Environmental License / Permit / Notification | Reference Number | Valid From | Valid Till |
|---|-------------------|------------|------------|
| Environmental Permit for whole project | EP-463/2013/B | 20/12/2016 | Nil |
| Receipt of the notification of construction dust production | Form NA | 27/7/2018 | Nil |
| Construction Waste Disposal Account | 7031619 | 17/8/2018 | Nil |
| Chemical Waste Producer Registration | 5318-758-C4314-01 | 6/11/2018 | Nil |
| Effluent Discharge License (Zone 1 – Zone 5) | WT00032446-2018 | 9/11/2018 | 30/11/2023 |
| Construction Noise Permit | GW-RN0783-18 | 29/12/2018 | 28/2/2019 |
| for Road Closure works at restricted hours | GW-RN0132-19 | 1/3/2019 | 30/4/2019 |



2. SUMMARY OF EM&A REQUIREMENTS AND MONITORING RESULTS

2.1 Monitoring Requirement

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

2.2 Monitoring Locations

2.2.1 The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works. According to the Hong Kong Observatory, wind directions were east, north and north east in December 2018 and February 2019. The wind directions in January 2019 were north and north east. The most updated locations are summarized in **Table 2.1** and shown in **Figure 2a**.

| Table 2.1 Location of Air Quality Monitoring | | | | |
|--|-----------------------|--------------------------|---------------------|--|
| Reporting Period | Monitoring Station | Location | Land uses | |
| | AMS 2 | Villa Le Parc | Residential | |
| December | AMS 3A | Wai Wah Centre | Residential | |
| 2018 | AMS 7A | Sheung Wo Che | Residential | |
| | AMS 9 | Shatin Tsung Tsin School | School | |
| | AMS 1 | Scenery Court | Residential | |
| January | AMS 4A | Wai Wah Centre | Residential | |
| 2019 | AMS 12 | Fung Wo Estate | Residential | |
| | AMS 15 | Ha Wo Che | Residential Village | |
| | AMS 2 | Villa Le Parc | Residential | |
| February | AMS 3A | Wai Wah Centre | Residential | |
| 2019 | AMS 13 | Fung Wo Estate | Residential | |
| | AMS 14 | Ha Wo Che | Residential Village | |

Table 2.1 Location of Air Quality Monitoring

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

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

Table 2.2 Location of Noise Monitoring Station

2.3 Results and Observations

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



| Table 2.3 Summary of 24-nr TSP Monitoring Results | | | | | | |
|---|--|----------|--------------------|-----------------|--------------------------------------|-----|
| Monitoring Station | 24-hr TSP (μg/m³) in Reporting Period | | Average (µg/m³) | Action Level | Limit Level (µg/ m ³) | |
| otation | Dec 2018 | Jan 2019 | Feb 2019 | (µg/iii) | (µg/ m³) | |
| AMS 1 | - | 18 - 47 | - | 32 | 171 | |
| AMS 2 | 23 - 78 | - | 24 - 49 | 45 | 166 | |
| AMS 3A | 49 - 95 | - | 40 - 61 | 60 | 200 | |
| AMS 4A | - | 63 - 90 | - | 74 | 200 | |
| AMS 7A | 25 - 77 | - | - | 43 | 171 | 260 |
| AMS 9 | 23 - 44 | - | - | 31 | 159 | 200 |
| AMS 12 | - | 60 - 80 | - | 70 | 168 | |
| AMS 13 | - | - | 42 - 62 | 51 | 174 | |
| AMS 14 | - | - | 21 - 70 | 43 | 174 | |
| AMS 15 | - | 11 - 35 | - | 25 | 172 | |

Table 2.2 Summary of 24 hr TSD Manitaring Deculto

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Table 2.4 Summary of 1-hr TSP Monitoring Results

| Monitoring Station | 1-hr TSP (μg/m³) in Reporting Period | | | Average (µg/m³) | Action Level | Limit Level (µg/ m³) |
|-----------------------|---|----------|----------|--------------------|-----------------|-------------------------|
| Station | Dec 2018 | Jan 2019 | Feb 2019 | (µg/m) | (µg/ m³) | |
| AMS 1 | - | 29 - 78 | - | 56 | 350 | |
| AMS 2 | 11 – 130 | - | 16 - 48 | 62 | 324 | |
| AMS 3A | 39 – 132 | - | 42 - 82 | 92 | 350 | |
| AMS 4A | - | 45 - 128 | - | 80 | 348 | |
| AMS 7A | 17 – 106 | - | - | 61 | 344 | 500 |
| AMS 9 | 24 – 98 | - | - | 52 | 327 | 500 |
| AMS 12 | - | 27 - 98 | - | 68 | 296 | |
| AMS 13 | - | - | 23 - 73 | 52 | 303 | |
| AMS 14 | - | - | 26 - 96 | 60 | 350 | |
| AMS 15 | - | 33 - 76 | - | 55 | 350 | |

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

| Table 2.5 | Summary of Day | / Time Noise Impact Monitoring Re | sults |
|-----------|----------------|-----------------------------------|-------|
|-----------|----------------|-----------------------------------|-------|

| | Log | | | |
|------------|-------------|--|-------------|-------|
| Monitoring | | Leq _(30min) Limit Level, | | |
| Station | Dec 2018 | Jan 2019 | Feb 2019 | dB(A) |
| NMS1 | 61.5 - 69.7 | 63.1 – 72.3 | 66.3 - 68.4 | 75 |
| NMS2 | 55.0 - 61.0 | 54.0 - 61.0 | 58.0 - 59.5 | 75 |
| NMS3 | 64.7 - 68.0 | 63.0 - 67.4 | 64.0 - 70.2 | 75 |
| NMS4 | 61.0 - 66.0 | 64.0 - 66.9 | 71.4 – 71.6 | 75 |
| NMS5A | 71.1 – 75.0 | 70.2 – 75.0 | 68.0 - 73.4 | 75 |
| NMS6A | 71.5 – 74.1 | 71.4 – 73.4 | 67.4 – 72.5 | 75 |
| NMS7 | 63.8 – 74.1 | 64.1 – 73.0 | 73.2 – 74.2 | 75 |
| NMS8 | 65.0 - 73.0 | 65.6 - 72.0 | 64.6 - 68.6 | 75 |
| NMS9 | 61.7 – 63.3 | 62.5 - 70.6 | 62.3 - 68.2 | 75 |
| NMS10A | 58.8 - 65.7 | 63.8 - 66.8 | 63.8 - 66.4 | 70* |
| NMS11 | 60.2 – 71.1 | 63.4 - 69.5 | 57.9 – 68.4 | 75 |
| NMS12 | 58.0 - 66.9 | 61.0 - 65.6 | 59.0 – 64.1 | 70* |
| NMS13 | 59.0 - 64.7 | 59.3 - 68.5 | 58.7 – 65.5 | 75 |
| NMS14 | 63.1 – 70.9 | 60.4 - 71.4 | 60.1 – 66.7 | 75 |
| NMS15 | 61.6 – 68.1 | 64.4 - 68.5 | 63.9 – 67.4 | 75 |
| NMS16 | 61.2 – 66.7 | 64.9 - 68.0 | 62.4 – 67.4 | 75 |

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| NMS17 | 62.0 - 69.0 | 59.5 – 65.1 | 59.9 – 63.3 | 70* |
|--------|-------------|-------------|-------------|-----|
| NMS18 | 57.7 – 69.6 | 62.4 – 70.5 | 60.0 – 73.2 | 75 |
| NMS19 | 63.7 – 72.1 | 67.7 – 71.2 | 65.8 – 67.7 | 75 |
| NMS20 | 58.7 – 69.7 | 61.3 – 71.6 | 58.8 – 67.5 | 75 |
| NMS23 | 63.9 – 71.0 | 61.9 – 65.6 | 62.5 – 68.6 | 75 |
| NMS24 | 63.0 - 65.9 | 63.1 – 69.0 | 62.7 – 67.5 | 75 |
| NMS25A | 65.3 – 73.6 | 66.5 - 71.4 | 62.1 – 72.1 | 75 |
| NMS26 | 68.2 - 74.4 | 68.4 - 72.5 | 68.0 – 74.6 | 75 |
| NMS27 | 64.6 - 69.9 | 64.0 - 69.6 | 63.5 – 64.2 | 70* |

Note: 1. Leq (30min) was measured at day-time (0700-1900) on normal weekdays.

2. 70 dB(A) for schools and 65 dB(A) for schools during examination period. Exam schedules of NMS 10A, NMS12, NMS 17 and NMS 27 are provided in the monthly report for reference.

2.3.3 According to the Monthly EM&A report, as the average construction noise level of each night time noise impact monitoring at the four monitoring stations was lower than the baseline level or the limit level, no project-related noise exceedance cases during the reporting period for Contractor's night tree-felling and removal works. The results are summarized in **Table 2.6** and **2.7**.

| Table 2.6 | Summary of Night | Time Noise Impact Monit | oring Results (1900 – 2300) |
|-----------|------------------|-------------------------|-----------------------------|
| | | | |

| Monitoring Station | in Reporti | ange ,dB(Å) ng Period | Baseline Level, dB(A) | Leq _(5min) Limit Level, dB(A) |
|--------------------|-------------|--------------------------|--------------------------|---|
| | Jan 2019 | Feb 2019 | | 70 |
| NMS 8 | NA | 60.1 – 69.4 | 67.5 | 70 |
| NMS 9 | 58.2 – 62.8 | 59.0 - 66.0 | 57.8 | 70 |
| NMS 24 | 59.0 – 61.8 | 60.3 – 67.7 | 61.8 | 70 |
| NMS 25A | 60.8 – 67.8 | 60.8 – 67.5 | 62.6 | 70 |

Note: Leq (5min) was measured at night-time (1900-2300) at NMS 8, 9, 24 & 25A.

NA – No night time noise impact monitoring at NMS 8 was conducted in January 2019 as the station was not in proximity of the tree felling area.

| Table 2.7 Juli mary of Night Time Noise impact worktoring Results (2500 – 0700 | Table 2.7 | Summary of Night Time Noise Impact Monitoring Results (2300 – 0700) |
|--|-----------|---|
|--|-----------|---|

| Monitoring | Leq (5min) Range ,dB(A | Leq (5min) Range ,dB(A) in Reporting Period | | Leq (5min) | |
|------------|------------------------|---|--------------|--------------------|--|
| Station | Jan 2019 | Feb 2019 | Level, dB(A) | Limit Level, dB(A) | |
| NMS 8 | NA | 56.0 - 63.7 | 64.4 | 55 | |
| NMS 9 | 50.0 - 61.8 | 51.8 – 60.8 | 53.5 | 55 | |
| NMS 24 | 53.5 – 61.0 | 52.1 – 60.9 | 58.0 | 55 | |
| NMS 25A | 44.1 – 67.4 | 44.4 - 63.7 | 59.7 | 55 | |

Note: 1. Leq (5min) was measured at night-time (2300-0700) at NMS 8, 9, 24 & 25A.

2. NA – No night time noise impact monitoring at NMS 8 was conducted in January 2019 as the station was not in proximity of the tree felling area.

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

Calculated CNL = Measured Noise Level during operation – Baseline

4. According to the Monthly EM&A Report, for NMS 8, NMS 9, NMS 24 and NMS 25A, the average construction level (5min) was lower than the baseline level or the limit level in the reporting period.

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



3. LANDSCAPE AND VISUAL

3.1 Results and Observations

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



4. WASTE MANAGEMENT

4.1 Results and Observations

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



5. SITE INSPECTION

5.1 Site Inspection

- 5.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix F**.
- 5.1.2 In the reporting quarter, 15 site inspections were carried out. 3 of them were the joint inspections with the IEC, ER, the Contractor and the ET. Ad-hoc inspection was held on 21 January 2019.
- 5.1.3 A senior environmental protection inspector from EPD visited Shio Chong Street storage area on 14 February 2019 to witness tree felling demonstration after a complaint was received on 2 February 2019. The second visit by EPD was conducted at 16th Feb night to check the mitigation measures regarding to the condition stipulated in the CNP.
- 5.1.4 All the follow-up actions requested by Contractor's ET and IEC during the site inspections were completed as reported by the Contractor. No outstanding issues were reported during the reporting period.
- 5.1.5 Details of observations recorded during the site inspections are presented in **Table 5.1**.

| Parameters | Date | Observations and Recommendations | Follow-up | | | |
|-------------------------------------|---|--|--|--|--|--|
| Air Quality | No defici | ency was found during the reporting | g quarter. | | | |
| Noise | No deficiency was found during the reporting quarter. | | | | | |
| Water Quality | 2 7 February 2019 | Reminder: More sandbags shall be placed at the exit of Zone 5. Sandbags shall be placed at drain exit under NF66. Sandbags shall be placed near trial pit near Wo Che Estate. | NA | | | |
| Chemical and Waste Management | 30 November 2018 | Reminder: Contractor was reminded to clear the waste materials frequently. | NA | | | |
| | 18 January 2019 | Observation: 1. Waste accumulation was found at site storage area under Sha Tin Rural Committee Road adjacent to the site exit. | The item was rectified by the Contractor on 22 January 2019. | | | |
| | | Reminder: Contractor was reminded to clear the waste at U-channel frequently. | NA | | | |

 Table 5.1
 Observations and Recommendations of Site Audit

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| Parameters | Date | Observations and Recommendations | Follow-up | | | |
|-----------------------|--|---|---|--|--|--|
| | 21 January 2019 (ad-hoc) | Observation: 1.Waste accumulation was found at site storage area under Sha Tin Rural Committee Road in Zone 3. 2.Waste accumulation was found at NS37A in Zone 5. | The items were rectified by the Contractor on 24 January 2019. | | | |
| | 30 January 2019 | Reminder: Chemical waste shall be placed inside chemical waste tank. Also waste disposal record shall be kept for reference. | NA | | | |
| | 15 February 2019 | Reminder: Contractor was reminded to clear the used batteries in the U- Channel inside the site storage area frequently. | NA | | | |
| | 27 February 2019 | Reminder: Felled trees which stored in Zone 3 storage area shall be cleared. | NA | | | |
| Land Contamination | No defic | No deficiency was found during the reporting q | | | | |
| Landscape and | 15 February 2019 | Reminder: Contractor was reminded to clarify whether trees that no sign on the tree body in Zone 1 were required to be felled. | NA | | | |
| Visual Impact | 22 February 2019 Reminder: Tree protection measure shall be provided under Zone 3 beside trial pit excavation. | | NA | | | |
| General | No defic | I trial pit excavation. No deficiency was found during the reporting | | | | |



6. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

6.1 Environmental Exceedance

6.1.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP and noise was recorded in the reporting period at all monitoring stations. Number of exceedance in the reporting period was summarized in **Table 6.1** and **6.2**.

| | | Number of exceedance in the reporting period | | | | | | | | |
|--------------------|----|--|-------------|-------------|-------|-------------|-------------|-------------|-------|--|
| Monitoring Station | | | 24-hou | ur TSP | | | 1-hour TSP | | | |
| | | Dec 2018 | Jan 2019 | Feb 2019 | Total | Dec 2018 | Jan 2019 | Feb 2019 | Total | |
| | AL | - | 0 | - | 0 | - | 0 | - | 0 | |
| AMS 1 | LL | - | 0 | - | 0 | - | 0 | - | 0 | |
| AMS 2 | AL | 0 | - | 0 | 0 | 0 | - | 0 | 0 | |
| AIVIS Z | LL | 0 | - | 0 | 0 | 0 | - | 0 | 0 | |
| AMS 3A | AL | 0 | - | 0 | 0 | 0 | - | 0 | 0 | |
| AIVIS SA | LL | 0 | - | 0 | 0 | 0 | - | 0 | 0 | |
| | AL | - | 0 | - | 0 | - | 0 | - | 0 | |
| AMS 4A | LL | - | 0 | - | 0 | - | 0 | - | 0 | |
| AMS 7A | AL | 0 | - | - | 0 | 0 | - | - | 0 | |
| | LL | 0 | - | - | 0 | 0 | - | - | 0 | |
| AMS 9 | AL | 0 | - | - | 0 | 0 | - | - | 0 | |
| AIVIS 9 | LL | 0 | - | - | 0 | 0 | - | - | 0 | |
| AMS 12 | AL | - | 0 | - | 0 | - | 0 | - | 0 | |
| AIVIS 12 | LL | - | 0 | - | 0 | - | 0 | - | 0 | |
| AMS 13 | AL | - | - | 0 | 0 | - | - | 0 | 0 | |
| AIVIS 13 | LL | - | - | 0 | 0 | - | - | 0 | 0 | |
| AMS 14 | AL | - | - | 0 | 0 | - | - | 0 | 0 | |
| AWIS 14 | LL | - | - | 0 | 0 | - | - | 0 | 0 | |
| AMS 15 | AL | - | 0 | - | 0 | - | 0 | - | 0 | |
| ANIS 15 | LL | - | 0 | - | 0 | - | 0 | - | 0 | |
| Total | AL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| rolai | LL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

Table 6.1 Summary of Exceedance of Dust Monitoring in Reporting Period

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Number of exceedance in the reporting period **Monitoring Station** Leq (30min) dB(A) Total Dec 2018 Jan 2019 Feb 2019 AL NMS 1 LL AL NMS 2 LL AL NMS 3 LL AL NMS 4 LL AL NMS 5A LL AL NMS 6A LL AL NMS 7 LL AL NMS 8 LL AL NMS 9 LL AL **NMS 10** LL AL **NMS 11** LL AL **NMS 12** LL AL **NMS 13** LL AL **NMS 14** LL AL **NMS 15** LL AL **NMS 16** LL AL **NMS 17** LL AL **NMS 18** LL AL **NMS 19** LL AL **NMS 20** LL AL NMS 23 LL AL **NMS 24** LL AL NMS 25A LL AL **NMS 26** LL AL **NMS 27** LL AL Total LL

Table 6.2 Summary of Exceedance of Noise Monitoring in Reporting Period

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6.2 Complaints, Notification of Summons and Prosecution

6.2.1 Two complaints were received in the reporting period. No notification of summons or prosecution was received in the reporting period. Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in Table 6.3, 6.4 and 6.5.

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| Reference No. | Date of Complaint Received | Received From | Nature of Complaint | Investigation/Mitigation Action | Outcome | Status |
|---------------|----------------------------------|----------------------------------|--|--|-----------------|--------|
| COM-2019-005 | 13/2/2019 | EPD | Regarding to continuous noise nuisance starting from around 1 a.m. near Lek Yuen Estate Kwai Wo House. | According to the photo taken from the complainant, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783-18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. Contractor was recommended to increase the frequency of using the electrical chain saw instead of the diesel chain saw for reducing the noise impact. Environmental Team conducted additional adhoc noise monitoring on 19:00 14th February 2019 to 07:00 15 th February 2019 for evaluate the effectiveness on the proposed mitigation measures. No project-related noise exceedance case on 14-15 Feb 2019 Contractor's night tree-felling and removal works. The proposed mitigation measures were effective for noise impact. | Project-related | Closed |
| COM-2019-006 | 22/2/2019 | Project Hotline of NE/2017/05 | Regarding to continuous noise generated from the tree felling works during the midnight 12:00am near Lek Yuen Estate Kwai Wo House. | According to the location of complainant from Kwai Wo House, the complaint was related to the project. Although the tree felling works were covered by the valid CNP (GW-RN0783- 18), Contractor was reminded to strictly follow and fully comply with the CNP conditions and the mitigation measures stipulated in the EM&A Manual when construction activities are operating during restricted hour. An extended barrier at the top acts as a cantilever shape | Project-related | Closed |

Table 6.3 Environmental Complaints Log

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| was recommended to modify the existing semi- enclosure installed in the cherry picker Also, three sides with top as a semi-enclosure to be used and those tree felling activities should be inside the semi-enclosure in the ground slope. The main contractor had been recommended to review their works program and methods of |
|--|
| tree felling as to minimize the night time tree felling activities. |

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Table 6.4 Cumulative Statistics on Complaints

| Environmental | Cumulative No. Brought | No. of Complaints in the Reporting Period | | | Cumulative Project-to- |
|---------------|---------------------------|---|-----------------|------------------|---------------------------|
| Parameters | Forward | December 2018 | January 2019 | February 2019 | Date |
| Air | 0 | 0 | 0 | 0 | 0 |
| Noise | 0 | 0 | 0 | 2 | 2 |
| Water | 0 | 0 | 0 | 0 | 0 |
| Waste | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 |

Table 6.5 Cumulative Statistics on Successful Prosecutions

| Environmental | Cumulative No. Brought | No. of Complaints This Reporting Period | | | Cumulative Project-to- |
|---------------|---------------------------|---|-----------------|------------------|---------------------------|
| Parameters | Forward | December 2018 | January 2019 | February 2019 | Date |
| Air | 0 | 0 | 0 | 0 | 0 |
| Noise | 0 | 0 | 0 | 0 | 0 |
| Water | 0 | 0 | 0 | 0 | 0 |
| Waste | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 |



7. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

7.1 Implementation Status

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



8. CONCLUSIONS

- 8.1.1 No Action and Limit Level exceedance for 24-hr & 1-hr TSP and noise was recorded in the reporting period at all monitoring stations.
- 8.1.2 Two complaint cases were received during the reporting month. A complaint received on 13/2/2019 referred EPD hotline regarding noise from tree-felling works by using chain saw near Lek Yuen Estate Kwai Wo House on 1 am. Another complaint received on 22/2/2019 from project hotline of NE/2017/05 regarding the noise generated from the tree felling works during the mid-nights. After ET's investigation, the complaint cases were considered project-related.
- 8.1.3 15 weekly environmental site inspections were carried out in the reporting period. Recommendations on mitigation measures on air quality, noise quality, water quality, chemical and waste management, landscape and visual impact were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 8.1.4 Referring to the Contractor's information, no notification of summons and successful prosecution was received in the reporting period.

Comment and Recommendations

- 8.1.5 The recommended environmental mitigation measures, as proposed in the EIA reports and EM&A Manuals shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.
- 8.1.6 According to the environmental audit performed in the reporting period, the following recommendations were made:

Air Quality Impact

• No specific observation was identified in the reporting period.

Construction Noise Impact

• No specific observation was identified in the reporting period.

Water Quality Impact

• No specific observation was identified in the reporting period.

Chemical and Waste Management

- Contractor was reminded to clear the waste materials at site storage area under Sha Tin Rural Committee Road adjacent to the site exit.
- Contractor was reminded to clear the waste materials at site storage area under Sha Tin Rural Committee Road in Zone 3.
- Contractor was reminded to clear the waste materials at NS37A in Zone 5.

Land Contamination

• No specific observation was identified in the reporting period.

Landscape and Visual Impact

• No specific observation was identified in the reporting period.

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General Condition

• No specific observation was identified in the reporting period.

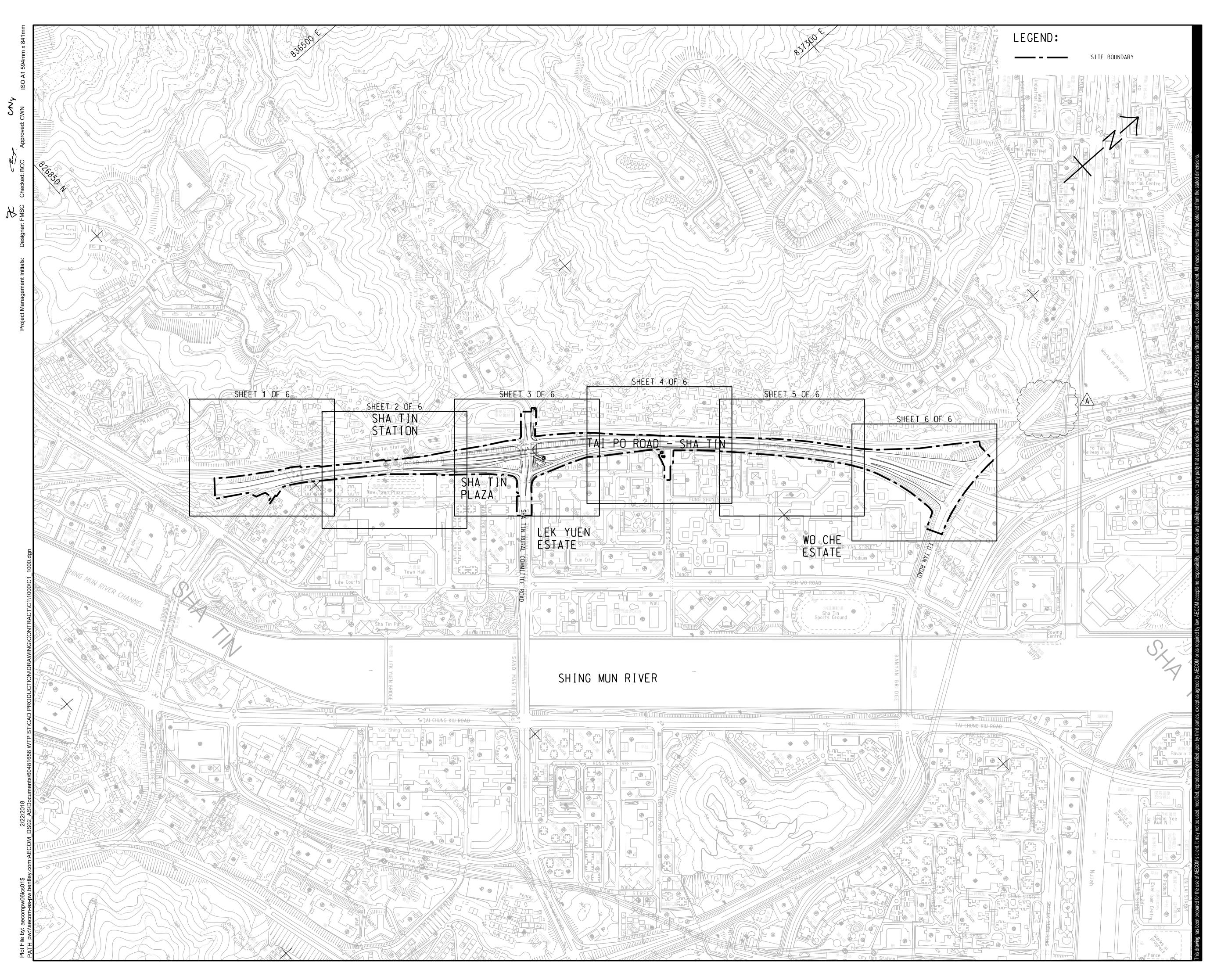
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Figure 1

Project General Layout





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

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STATUS 階段

| SCALE ^{比例} | DIMENSION UNIT 尺寸單位 |
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| KEY PLAN 索引圖 | FIGURE 1.1a |

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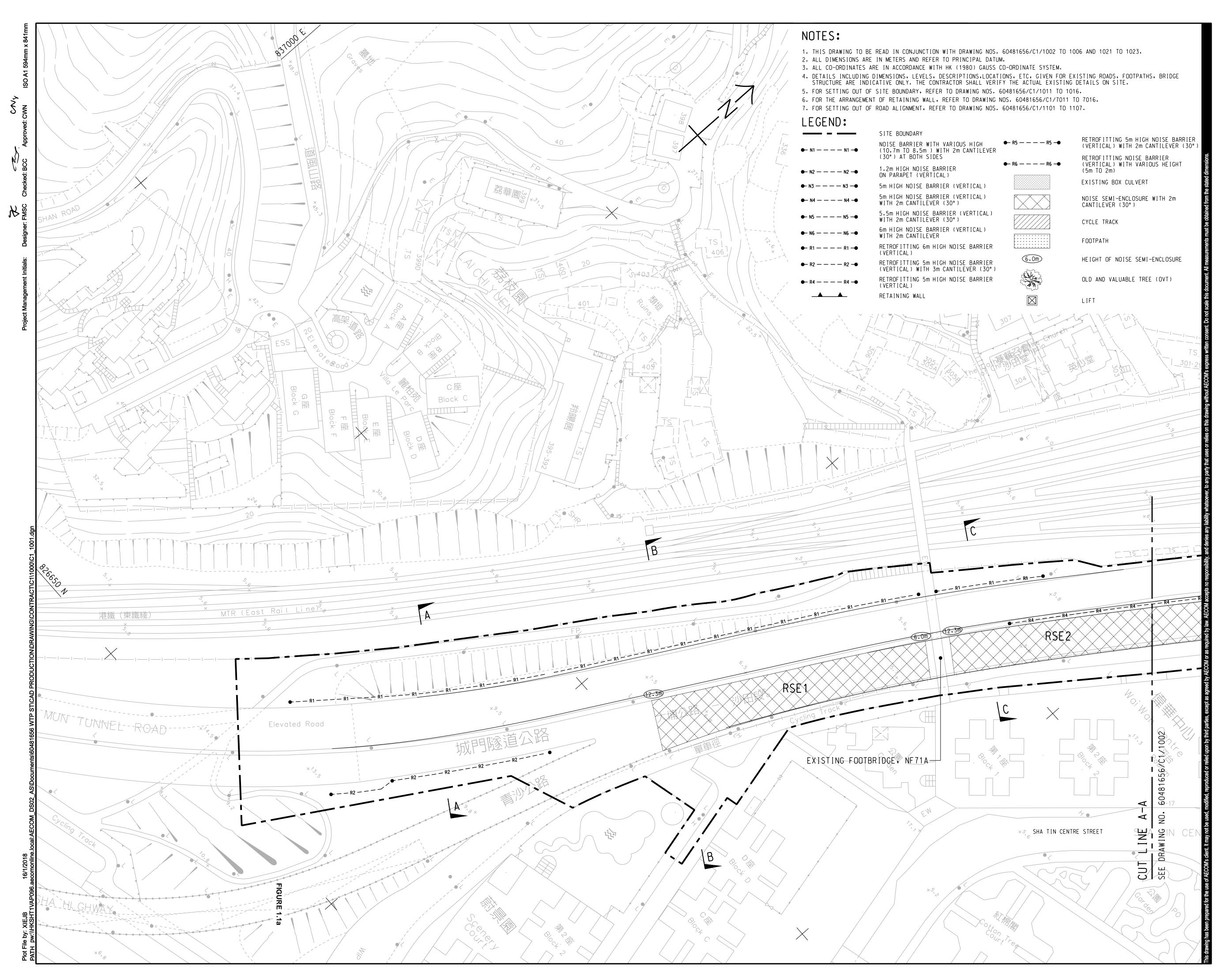
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SHEET TITLE ^{圖紙名稱}

KEY PLAN FIGURE 1.1a

SHEET NUMBER 圖紙編號

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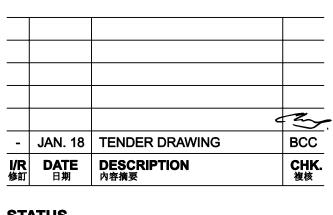
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SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN

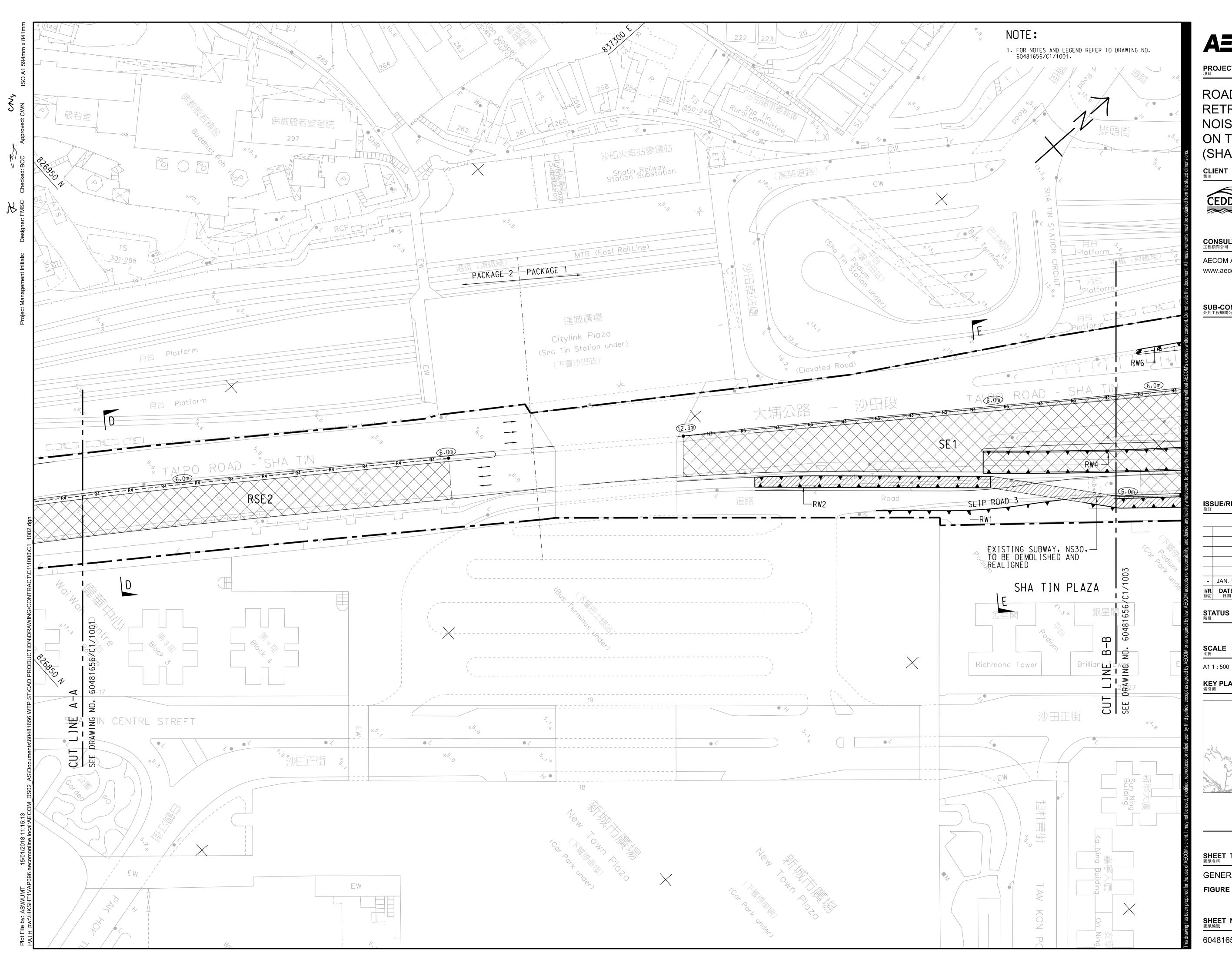
FIGURE 1.1 b

SHEET NUMBER ^{圖紙編號}

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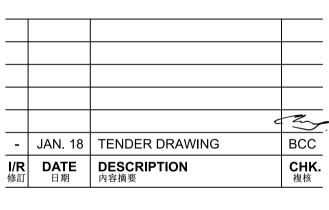
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NE/2017/05

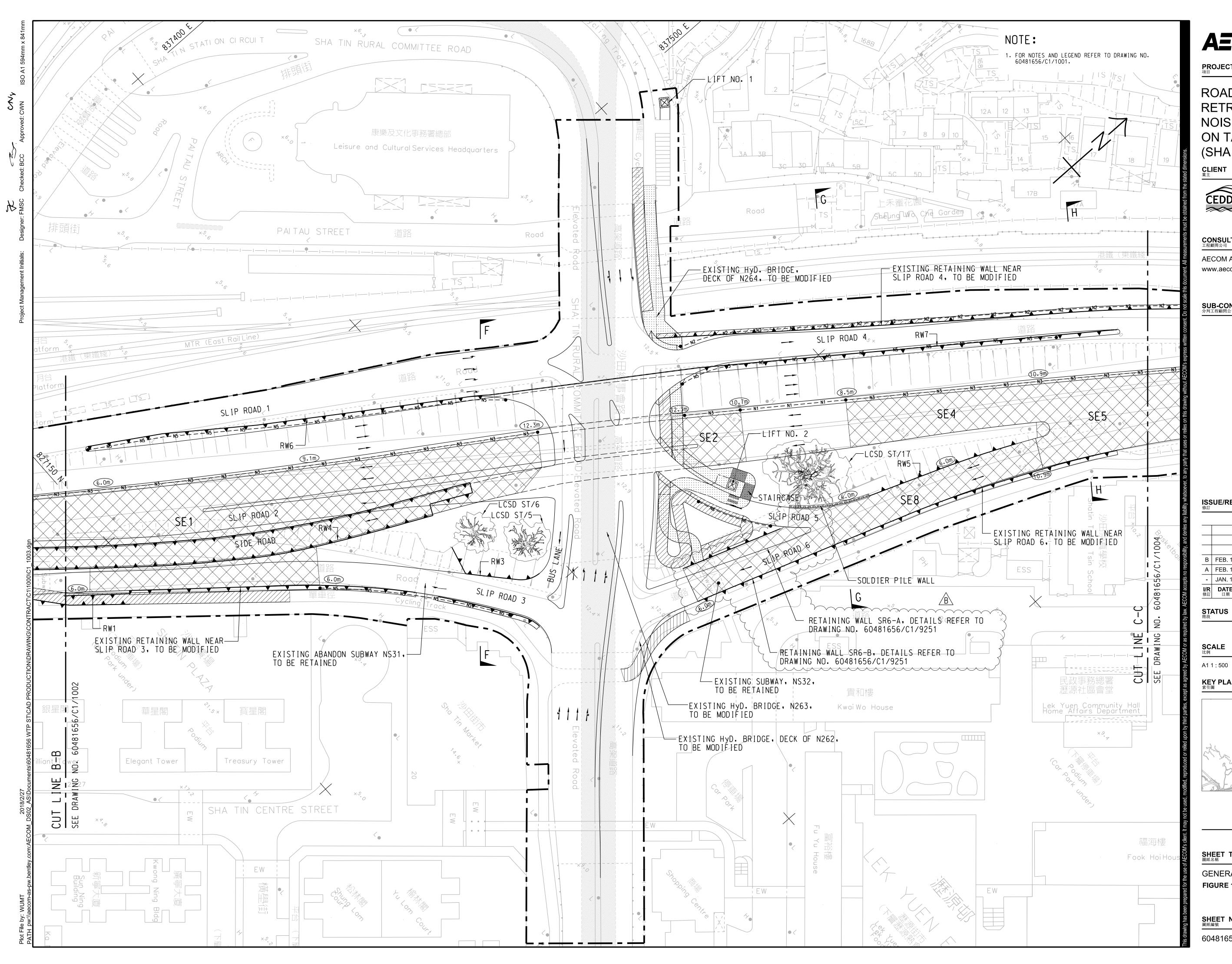
SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

SHEET NUMBER ^{圖紙編號}

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SHEET 2 OF 6





PROJECT

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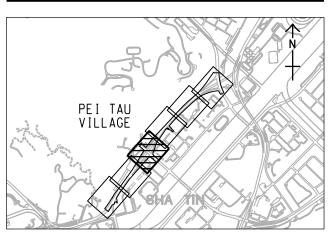
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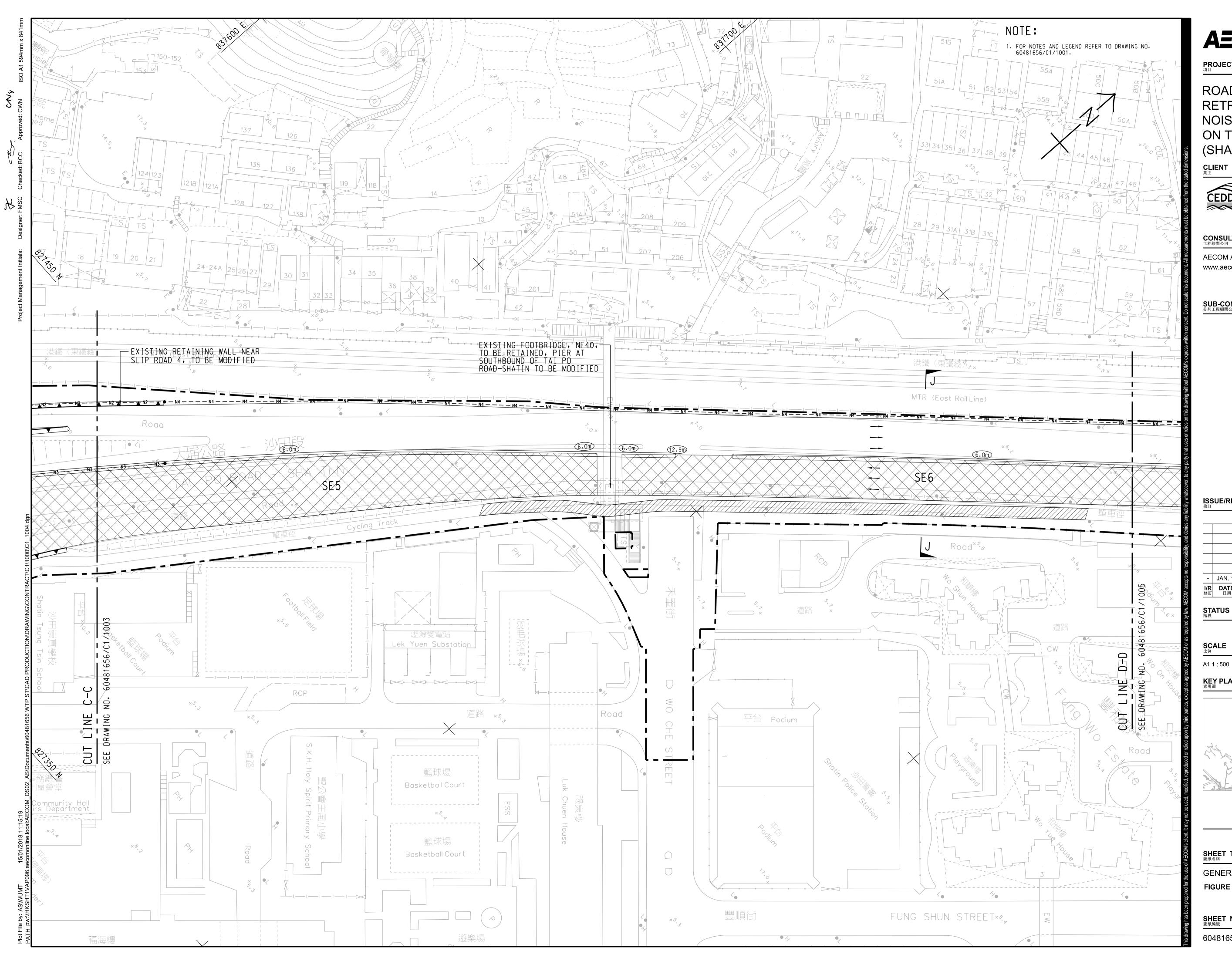
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GENERAL LAYOUT PLAN FIGURE 1.1 b

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SHEET 3 OF 6





PROJECT ^{項目}

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CLIENT ^{業主}



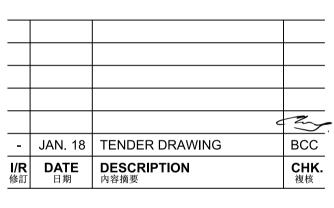
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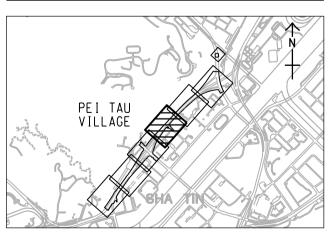
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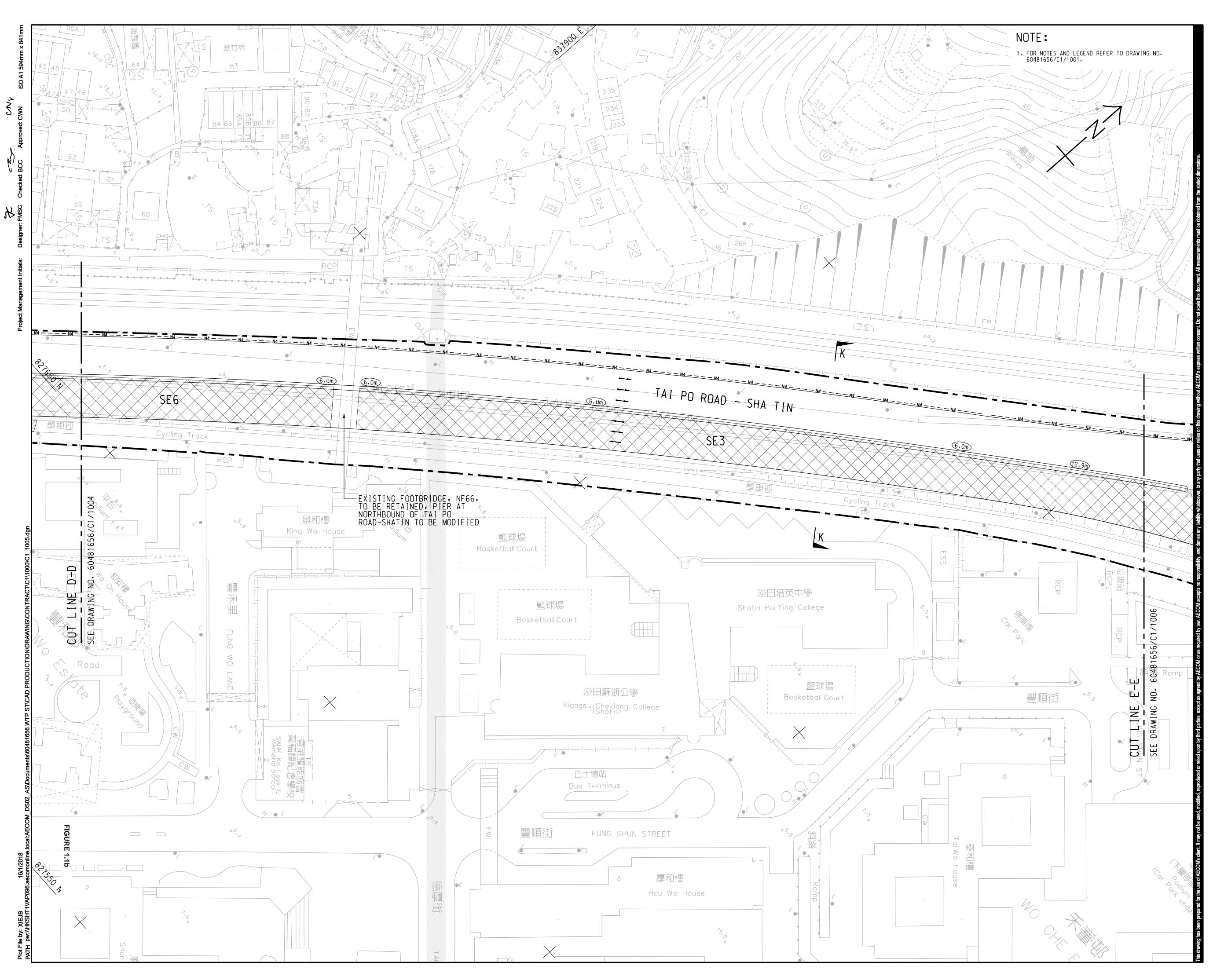
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GENERAL LAYOUT PLAN FIGURE 1.1b

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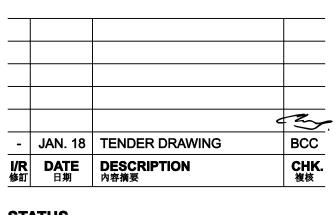
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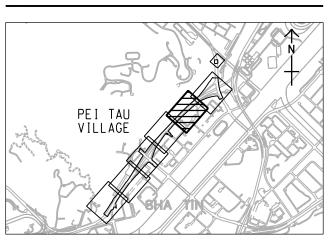
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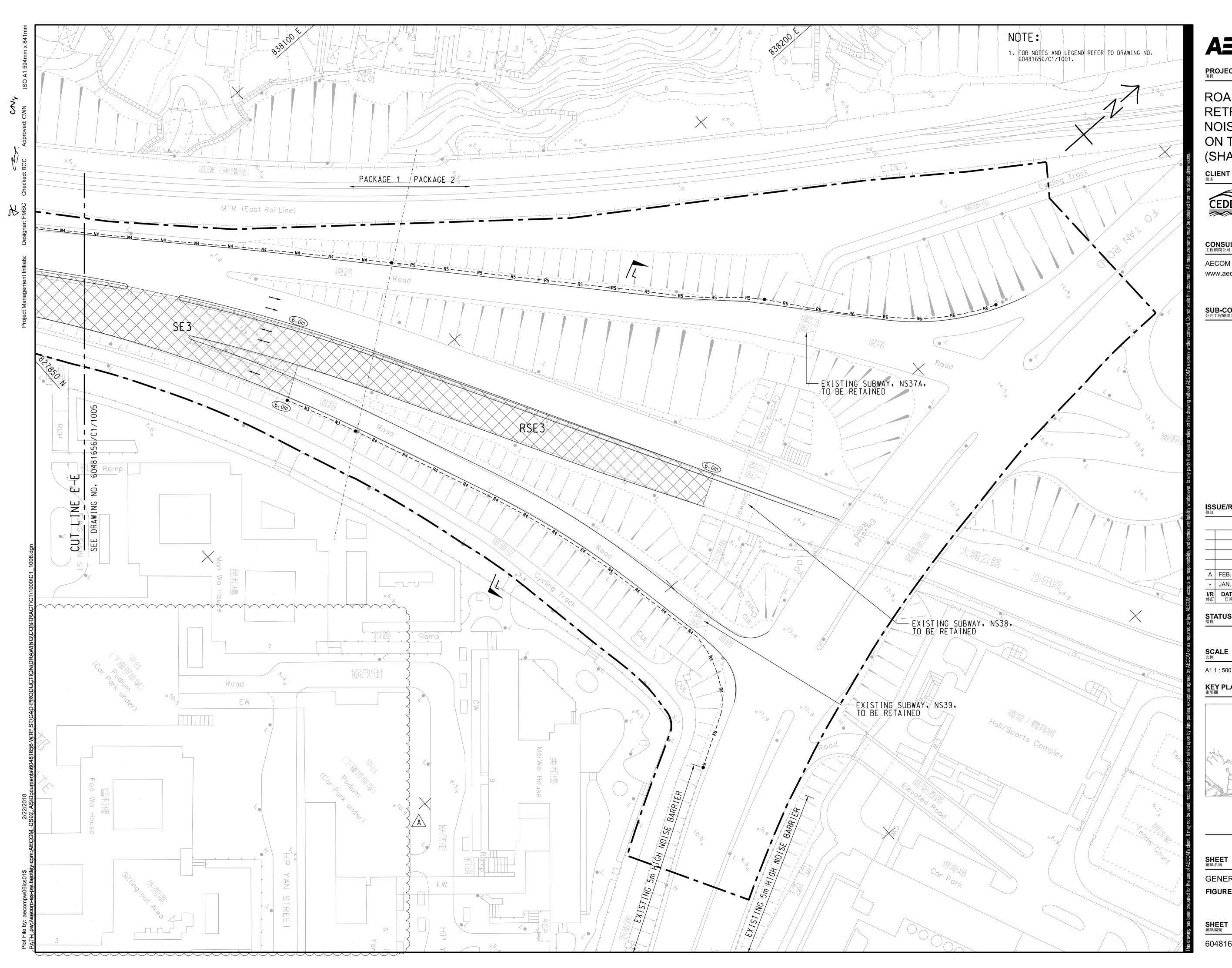
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GENERAL LAYOUT PLAN FIGURE 1.1b

SHEET NUMBER 圖紙編號

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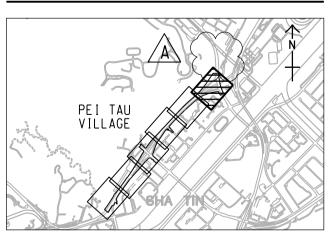
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SHEET TITLE 圖紙名稱

GENERAL LAYOUT PLAN FIGURE 1.1b

SHEET 6 OF 6

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Figure 2a

Air Monitoring Locations

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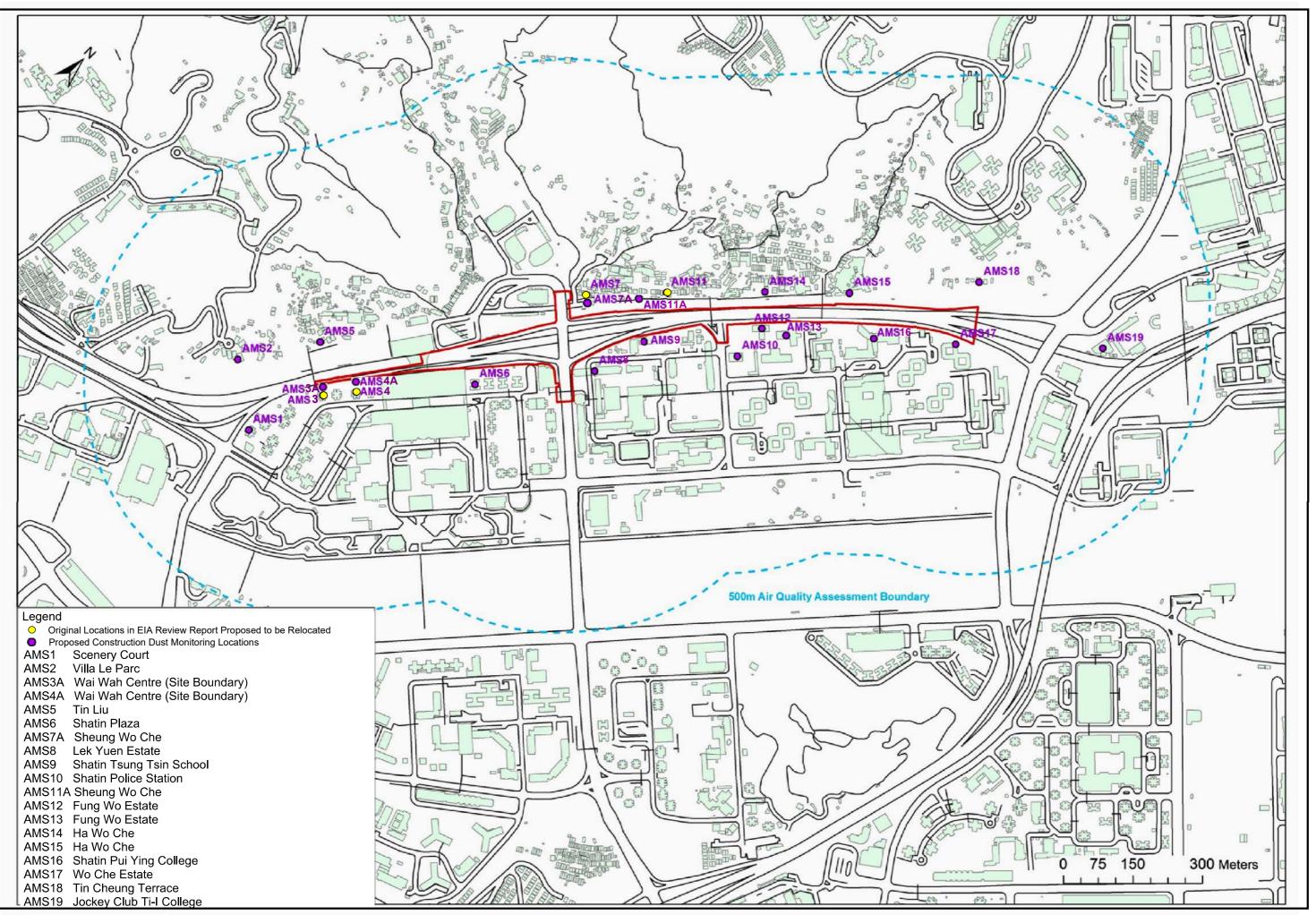


Figure 2a Air Quality Monitoring Locations



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Figure 2b

Noise Monitoring Locations

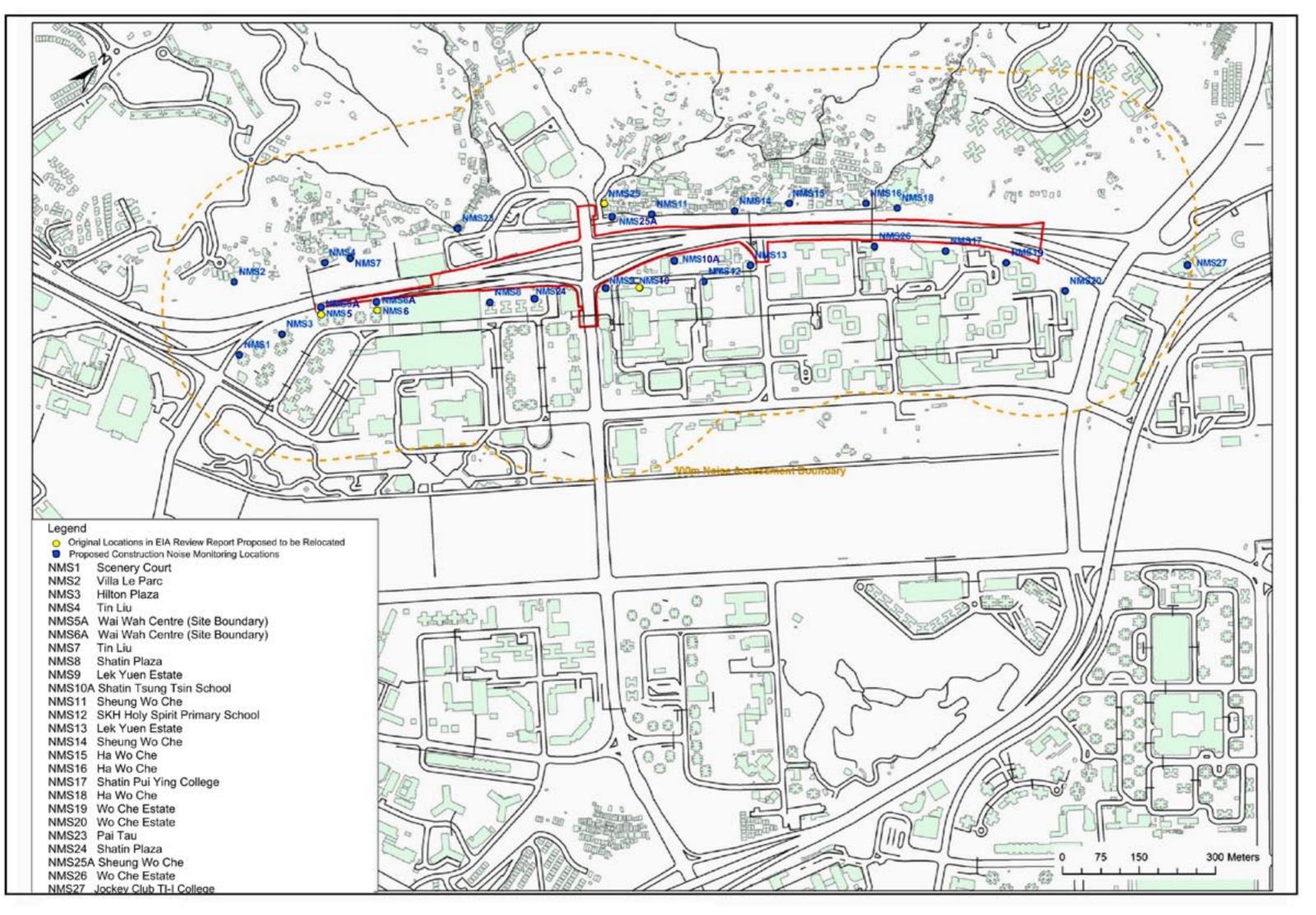


Figure 2b Noise Monitoring Locations



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Appendix A

Construction Programme

| ID Activity I | Name | | aining 3MRP Star | 3MRP Finish | DWP (AP2) | DWP (AP2 |)N | 2018 | | 2019 | |
|-----------------------------|--|-------------|------------------|----------------|-----------|-----------|-----------------------------|---|------------------|-------------------------------|-----------------|
| | | | | | Start | Finist | h <u>Nov</u> 5 | Dec 6 | Jan 7 | Feb | Ma 9 |
| DITTACT NE/20 | 17/05 Road Widening and I | Retrofittin | ng Noise Ba | arriers or | n Tai Po | Road (| | | | · · · · · | |
| ROJECT KEY | | | | | | | | | | | |
| OSSESSION OF SITE | | | | | | | | | | | |
| KEY1050 Possess | sion of Portion D | 0 | 0 23-Jan-19* | | 23-Jan-19 | | | | 2 Posses | sion of Portion D | 1 |
| RELIMINARIE | S & GENERAL REQUIRE | MENT | Carl Carl Carl | | | | | | • | | |
| SENERAL SUBMISSIO | N | | | | | | | | | | |
| SUB1115 Survey of | of the Site | 0 | 0 30-Nov-18* | | 03-Aug-18 | | | Summer of the Oile | | | |
| SUB1153 BIM Tea | ım | 0 | 0 30-Nov-18* | | 24-Aug-18 | | _ | Survey of the Site | | | |
| SUB1155 BIM Exe | cution Plan | 0 | 0 30-Nov-18* | | | | | BIM Team | | | |
| SUB1180 Recordi | na photo | | | | 25-Sep-18 | | | BIM Execution Plan | | | |
| | | 0 | 0 30-Nov-18* | | 03-Aug-18 | | | Recording photo | | | |
| SUB1200 Hoarding | | 0 | 0 30-Nov-18* | | 01-Aug-18 | | | 👌 Hoarding Plan | | | |
| SUB1305 Holding | nursery for transplanted trees | 0 | 0 30-Nov-18* | | 17-Aug-18 | | | Holding nursery for transplanted trees | | | |
| SUB1307 Geotech | nical monitoring personnel | 0 | 0 30-Nov-18* | | 17-Aug-18 | | | Geotechnical monitoring personnel | | | |
| SUB1309 Geotech | nical monitoring proposal | 0 | 0 30-Nov-18* | | 26-Aug-18 | | | Geotechnical monitoring proposal | | | |
| SUB1343 TCSS C | onfiguration Management | 0 | 0 30-Nov-18* | | 16-Sep-18 | | - | | | | |
| SUB1347 Lift Insta | Ilation - Design Data | 0 | 0 30-Nov-18* | | 25-Sep-18 | | | TCSS Configuration Management | | | |
| SUB1360 Video So | cript | 0 | 0 14-Jan-19* | | | | | Lift Installation - Design Data | | | |
| | nent of technician apprentices & civil engineering | | | | 14-Jan-19 | | | | Video Script | | |
| graduate | es | 0 | 0 15-Nov-18 A | | 16-Oct-18 | | Employment of te | echnician apprentices & civil engineering gra | duates | | |
| | ull detail programme | 0 | 0 05-Nov-18 A | | 21-Oct-18 | | ıbmit full detail programme | | | | |
| | Lighting Luminaires and System | 0 | 0 30-Nov-18* | | 16-Oct-18 | | | ITP's for Lighting Luminaires and System | n | | |
| SUB1405 All Lighti | ng Designs | 0 | 0 30-Nov-18* | | 16-Oct-18 | | | All Lighting Designs | | | |
| SUB1407 Interface Docume | Management Plan & Detailed Interface | 0 | 0 05-Nov-18 A | | 16-Oct-18 | | terface Management Plan & | Detailed Interface Document | | | |
| SUB1410 Combine | ed Services Drawings (CSD) | 0 | 0 30-Nov-18* | | 25-Oct-18 | | | Combined Services Drawings (CSD) | | | |
| ESIGN SUBM | ISSION | | | | | | | Combined Services Drawings (CSD) | | | |
| ENERAL | | | | | | | | | | | |
| DES1030 PM Con | sent for Contruction | 28 | 11 10 Cap 10 A | 10 Dec 10 | | | | | | | |
| | | | 11 18-Sep-18 A | 10-Dec-18 | 25-Sep-18 | 22-Oct-18 | | PM Consent for Contruction | 'n | | |
| | MODIFICATION WORKS (Alternative Des | lign) | | | | | | | | | |
| | w & comment | 28 | 28 10-Oct-18 A | 27-Dec-18 | 14-Sep-18 | 11-Oct-18 | | PM | review & comment | | - |
| DES1060 Re-subm | nit Alternative Design for Slab Widening of NHA & g of Bridge N264 w/Design Certificate | 22 | 22 29-Dec-18 | 19-Jan-19 | 13-Oct-18 | 03-Nov-18 | | | Be-submit Alt | ernative Design for Slab Wide | ning of NILLA 8 |
| Widening | sent for Construction | 28 | 28 20-Jan-19 | 16-Feb-19 | 04-Nov-18 | 01-Dec-18 | | - | | | |
| Widening | | | | 04-Dec-18 | 14-Sep-18 | 04-Oct-18 | | Prepare & submit Alternative Desig | | | onsent for Cons |

| ity ID | Activity Name | Original Duration | Remaining Duration | 3MRP Start | 3MRP Finish | DWP (AP2) Start | DWP (AP2) Finish | Nov | 2018 | Dec | | lan | 2019 | | |
|-------------------------------------|---|----------------------|-----------------------|-------------|------------------------|------------------------|------------------------|---|----------------------------|--------------------------|----------------------|-----------------------|------------------|-----------------------|-----------------|
| DES1090 | PM review & comment | 28 | 28 | 05-Dec-18 | | 05-Oct-18 | 01-Nov-18 | 5 | | 6 | | Jan 7 | | Feb 8 | N |
| DES1100 | Re-submit Alternative Desing for Modification of Bridge | 23 | 23 | | | 03-Nov-18 | 25-Nov-18 | | | | PM review & | | | | |
| DES1110 | N263 w/Design Certificate PM Consent for Construction | 28 | 28 | 26-Jan-19 | 22-Feb-19 | 26-Nov-18 | 23-Dec-18 | | | | | | Re-submit Alter | native Desing for N | Addification of |
| DES1120 | Prepare & submit Alternative Design of Bridges SR2 & SR5, Slab Widening of SHA & Widening of Bridge N262 | 21 | 20 | 30-Nov-18 A | 24-Dec-18 | 05-Oct-18 | 25-Oct-18 | | | Prov | are f autorit Altern | | 1 | | PM Conse |
| DES1130 | PM review & comment | 28 | 28 | 25-Dec-18 | 21-Jan-19 | 26-Oct-18 | 22-Nov-18 | | | | pare & submit Altern | | | | |
| DES1140 | Re-submit Alternative Design of Bridges SR2 & SR5, Slab Widening of SHA & Widening of Bridge N262 w/Design | 28 | 28 | 22-Jan-19 | 18-Feb-19 | 23-Nov-18 | 20-Dec-18 | | | | | PMIN | eview & comme | | |
| DES1150 | PM Consent for Construction | 28 | 28 | 19-Feb-19 | 18-Mar-19 | 21-Dec-18 | 17-Jan-19 | | | | | | | Re | e-submit Alterr |
| NOISE MITTG | ATTON MEASURES | | | | | | | | | | | | - | | |
| DES1170 | PM review & comment | 28 | 24 | 03-Oct-18 A | 23-Dec-18 | 14-Sep-18 | 11-Oct-18 | | | PM re | view & comment | | _ | | |
| DES1180 | Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate | 22 | 22 | 25-Dec-18 | 15-Jan-19 | 13-Oct-18 | 03-Nov-18 | | | | | Be-submit Fo | undation Desig | of Noise Mitigatio | n Maaalaa k |
| DES1190 | PM Consent for Construction | 28 | 28 | 16-Jan-19 | 12-Feb-19 | 04-Nov-18 | 01-Dec-18 | | | | | | undation Design | | ent for Constru |
| DES1210 | PM review & comment | 28 | 20 | 25-Oct-18 A | 19-Dec-18 | 05-Oct-18 | 01-Nov-18 | | | PM review | & comment | | | | int for Constru |
| DES1220 | Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate | 23 | 23 | 21-Dec-18 | 12-Jan-19 | 03-Nov-18 | 25-Nov-18 | | | | | Re-submit Found | ation Design of | Noise Mitigation M | leasures in 7o |
| DES1230 | PM Consent for Construction | 28 | 28 | 13-Jan-19 | 09-Feb-19 | 26-Nov-18 | 23-Dec-18 | | - | | | | | PM Consent fo | |
| DES1240 | Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate | 21 | 21 | 30-Nov-18 | 20-Dec-18 | 05-Oct-18 | 25-Oct-18 | | | Prepare 8 | submit Foundation | Design of Mitigatio | | | |
| DES1250 | PM review & comment | 28 | 28 | 21-Dec-18 | 17-Jan-19 | 26-Oct-18 | 22-Nov-18 | | | | | | & comment | | Joranoato |
| DES1260 | Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate | 23 | 23 | 19-Jan-19 | 10-Feb-19 | 24-Nov-18 | 16-Dec-18 | - | | | | | | Re-submit Fo | oundation Dev |
| DES1270 | PM Consent for Construction | 28 | 28 | 11-Feb-19 | 10-Mar-19 | 17-Dec-18 | 13-Jan-19 | | | | | | | | |
| DES1280 | Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate | 21 | 21 | 21-Dec-18 | 10-Jan-19 | 26-Oct-18 | 15-Nov-18 | | | | Pr | epare & submit Su | perstructure De | sign of Noise Mitic | aation Measur |
| DES1290 | PM review & comment | 28 | 28 | 11-Jan-19 | 07-Feb-19 | 16-Nov-18 | 13-Dec-18 | | | <u></u> | | | | PM review & com | |
| DES1300 | Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate | 20 | 20 | 09-Feb-19 | 28-Feb-19 | 15-Dec-18 | 03-Jan-19 | | | | - | | | | Re |
| DES1320 | Prepare & submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate | 21 | 21 | 11-Jan-19 | 31-Jan-19 | 16-Nov-18 | 06-Dec-18 | | | | | | Prepare | & submit Superstr | ructure Design |
| DES1330 DES1360 | PM review & comment | 28 | 28 | 01-Feb-19 | 28-Feb-19 | 07-Dec-18 | 03-Jan-19 | | | | | | | | PM |
| DES1300 | Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate PM review & comment | 21 | 21 | 01-Feb-19 | | 07-Dec-18 | 27-Dec-18 | | | | | | | | Prepare & s |
| REMAINING | | 28 | 28 | 22-Feb-19 | 21-Mar-19 | 28-Dec-18 | 24-Jan-19 | | | | - | | ••••• | | |
| DES1410 | PM review & comment | - | | | | | | | | | | | | | |
| DES1420 | Re-submit Foundation Design of Retaining Walls RW1, | 28 | | 29-Oct-18 A | 19-Dec-18 | 14-Sep-18 | 11-Oct-18 | | - | PM review a | & comment | | | | |
| DES1430 | RW3, RW6 & RW7 w/Design Certificate PM Consent for Construction | 34 | 34 | 21-Dec-18 | | 13-Oct-18 | 15-Nov-18 | | | | | Re- | submit Foundat | ion Design of Reta | aining Walls R |
| DES1440 | Prepare & submit Foundation Design of Footbridge NF40 | 28 | 28 | 24-Jan-19 | | 16-Nov-18 | 13-Dec-18 | | | | | C | | | PM Consent f |
| DES1450 | & NF66 w/Design Certificate PM review & comment | 21 | | 16-Nov-18 A | | 14-Sep-18 | 04-Oct-18 | C. State State | Prepa | re & submit Foundation D | esign of Footbridge | NF40 & NF66 w/ | Design Certifica | e | |
| DES1460 | Re-submit Foundation Design of Footbridge NF40 & | 28 | 28 | 05-Dec-18 | 01-Jan-19 30-Jan-19 | 05-Oct-18 | 01-Nov-18 | | | | PM review & c | omment | | | |
| DES1470 | NF66 w/Design Certificate PM Consent for Construction | 28 | 28 | 31-Jan-19 | | 03-Nov-18 08-Dec-18 | 07-Dec-18 | | _ | | | | Re-submit | Foundation Desig | in of Footbrid |
| DES1480 | Prepare & submit Foundation Design of Pedestrian Lift 1 | 21 | | 05-Dec-18 | | 05-Oct-18 | 04-Jan-19 25-Oct-18 | | | | | | | | PM C |
| | & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry | | | | | | | | | | oare & submit Found | lation Design of P | edestrian Lift 1 | & 2, Lift 2 Staircase | a, Cycle Track |
| Actual Le Primary E Actual We | Baseline | | | RO | AD WIDENI | NG & RETRO 3 | Months Rolli | SE BARRIERS OI ng Programme (Page 2 of 6 | N TAI PO ROAD 30/11/18) | O (SHA TIN SECTION | l) Date 05/12/18 | Revisi 3MRP DWP 18 | | Checked n | Approved |

| | | Original Duration | Remaining Duration | 3MRP Start | 3MRP Finish | DWP (AP2) Start | DWP (AP2) Finish | Nov Dec | |
|---------------------------------------|--|----------------------|-----------------------|-------------|----------------|--------------------|---------------------|---|------------------------------|
| DES1490 | PM review & comment | 28 | 28 | 26-Dec-18 | | | _ | 5 6 7 g | |
| DES1500 | | | 20 | 20-Dec-18 | 22-Jan-19 | 26-Oct-18 | 22-Nov-18 | 8 PM review & comment | |
| DESISOU | Re-submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign Gantry w/Design | 35 | 35 | 24-Jan-19 | 27-Feb-19 | 24-Nov-18 | 28-Dec-18 | 8 | Re |
| DES1520 | Prepare & submit Design of Watermain & Irrigation System w/Design Certificate | 35 | 5 | 20-Nov-18 A | 04-Dec-18 | 29-Jul-18 | 01-Sep-18 | 8 Prepare & submit Design of Watermain & Irrigation System w/Design Certificate | |
| DES1530 | PM review & comment | 28 | 28 | 05-Dec-18 | 01-Jan-19 | 02-Sep-18 | 29-Sep-18 | | |
| DES1540 | Re-submit Design of Watermain & Irrigation System w/Design Certificate | 28 | 28 | 03-Jan-19 | 30-Jan-19 | 01-Oct-18 | 01-Nov-18 | 8 | atormola 8 Inda |
| DES1550 | PM Consent for Construction | 28 | 28 | 31-Jan-19 | 27-Feb-19 | 02-Nov-18 | 29-Nov-18 | Re-submit Design of W | |
| DES1560 | Prepare & submit Design of E&M System (E&M & Road Lighting) w/Design Certificate | 35 | 35 | 05-Dec-18 | 08-Jan-19 | 02-Sep-18 | 06-Oct-18 | 8 Prepare & submit Design of E&M System (E&M & Ro | PM |
| DES1570 | PM review & comment | 28 | 28 | 09-Jan-19 | 05-Feb-19 | 07-Oct-18 | 03-Nov-18 | 8 | |
| DES1580 | Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate | 32 | 32 | 07-Feb-19 | 10-Mar-19 | 05-Nov-18 | 06-Dec-18 | PM review & co | mment |
| UBLET | TING & PROCUREMENT SCHED | | C. S. S. S. | | 10 10 10 10 10 | | | | |
| SUBLETTING | | OLL | | | | | | | |
| SPS1000 | | | | | | | | | |
| | Maintenance of Traffic Flow | 30 | 30 | 18-Dec-18 | 16-Jan-19 | 25-Sep-18 | 24-Oct-18 | 8 Maintenance of Traffic Flow | |
| SPS1010 | Electronic Document Management System (EDMS) for the use of the Project Manager | 30 | 12 | 18-Oct-18 A | 11-Dec-18* | 02-Oct-18 | 31-Oct-18 | | |
| SPS1020 | Photographs | 30 | 0 | 28-Sep-18 A | 12-Nov-18 | 02-Oct-18 | 31-Oct-18 | | |
| SPS1030 | Hoarding and Signboard | 30 | 30 | 30-Nov-18 | 29-Dec-18 | 02-Oct-18 | 31-Oct-18 | B Hoarding and Signboard | |
| SPS1040 | Survey of the Site | 30 | 30 | 18-Dec-18 | 16-Jan-19 | 25-Sep-18 | 24-Oct-18 | | |
| SPS1050 | Public Relations Work Including Public Relations Offocer) | 30 | 0 | 28-Sep-18 A | 08-Nov-18 | 02-Oct-18 | 31-Oct-18 | | |
| SPS1060 | Security System of the Site | 30 | 30 | 30-Nov-18 | 29-Dec-18 | 02-Oct-18 | 31-Oct-18 | | |
| SPS1070 | Construction Video film production + reproduction | 30 | 0 | 28-Sep-18 A | 12-Nov-18 | 02-Oct-18 | 31-Oct-18 | | |
| SPS1080 | Pre-construction condition survey | 30 | 0 | 30-Oct-18 A | 15-Nov-18 | 25-Sep-18 | 24-Oct-18 | | |
| SPS1090 | Building Information Model (BIM) | 30 | 30 | 30-Nov-18 | 29-Dec-18 | 02-Oct-18 | 31-Oct-18 | Building Information Model (BIM) | |
| SPS1100 | Independent Checking Engineer | 30 | 0 | 16-Oct-18 A | 13-Nov-18 | 25-Oct-18 | 23-Nov-18 | | |
| SPS1110 | Consultancy Services at Construction Stage | 30 | 0 | 15-Oct-18 A | 13-Nov-18 | 02-Oct-18 | 31-Oct-18 | | |
| SPS1140 | Site Clearance and Demolition Work | 30 | 30 | 17-Jan-19 | 15-Feb-19 | 25-Oct-18 | 23-Nov-18 | | - 01 |
| SPS1150 | Ground Investigation | 30 | 0 | 05-Oct-18 A | 12-Nov-18 | 25-Oct-18 | 23-Nov-18 | | e Clearance and |
| SPS1160 | Monitoring and Instrumentation | 30 | 30 | 16-Feb-19 | A 17-Mar-19 | 24-Nov-18 | 23-Dec-18 | | |
| SPS1170 | Piling Works and Pile Testing | 30 | 30 | 30-Nov-18 | 29-Dec-18 | 25-Oct-18 | 23-Nov-18 | | |
| SPS1200 | Waterwork (Pipework) | 30 | 30 | 30-Nov-18 | 29-Dec-18 | 06-Aug-18 | 04-Sep-18 | Piling Works and Pile Testing | |
| SPS1210 | Drainage (PC pipe, manhole & gully) and Duct | 30 | 30 | 29-Jan-19 | 27-Feb-19 | 24-Dec-18 | 22-Jan-19 | waterwork (Pipework) | |
| SPS1220 | CCTV for Drainage Pipe | 30 | 30 | 30-Nov-18 | 29-Dec-18 | 25-Oct-18 | 23-Nov-18 | | Dra |
| SPS1240 | Reinforced Concrete Work for Retaining Walls | 30 | 30 | 30-Nov-18 | 29-Dec-18 | 12-Oct-18 | 11-Nov-18 | | |
| SPS1250 | Reinforced Concrete Work for Noise Mitigation Measures | 30 | 30 | 18-Dec-18 | 16-Jan-19 | 25-Sep-18 | 24-Oct-18 | Keinforced Concrete Work for Retaining Walls | |
| SPS1260 | Reinforced Concrete Work for Bridge Work | 30 | | 16-Feb-19 | | 23-Dec-18 | 21-Jan-19 | Reinforced Concrete Work for Noise Mitiga | tion Measures |
| SPS1290 | Steelwork for NB and Lift Tower | 30 | | 11-Jan-19 | | 11-Jan-19 | 09-Feb-19 | | |
| Remaining Actual Lev Primary Bi | aseline | | | RO | AD WIDENII | NG & RETRO | FITTING NO | Discretion Date Revision Checked 01/11/18) 05/12/18 3MRP DWP 1811 Tim | or NB and Lift T Approved |

| SPS1410 | | Duration | Duration | 3MRP Start | 3MRP Finish | DWP (AP2) Start | DWP (AP2) | Mar | 2018 | | | | 2019 | | |
|--|---|-----------------|-----------------------|---|--|---|---|----------------|-------------------------|----------|-----------------|------------------------|---------------------|----------------|---------------------|
| | Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & | | | | | | Finish | Nov 5 | | Dec 6 | | Jan | | eb | N |
| | Signature) | 30 | 30 | 01-Dec-18 | 30-Dec-18 | 17-Sep-18 | 16-Oct-18 | | | | Pedestrian Lift | (Lift Cars, E&M, Pane | Lourve & Signature | 8 | _ |
| SPS1420 | Lighting System for Noise Mitigation Measures | 30 | 30 | 12-Dec-18 | 10-Jan-19 | 25-Aug-18 | 23-Sep-18 | | | | | | | | |
| SPS1440 | Drainage for Noise Mitigation Measures | 30 | 30 | 12-Dec-18 | 10-Jan-19 | 25-Aug-18 | 23-Sep-18 | | | | | Lighting System for No | | res | |
| SPS1460 | Waterproofing (Bitumen Paint) | 30 | 30 | 25-Jan-19 | 23-Feb-19 | 25-Oct-18 | 23-Nov-18 | | | | | Drainage for Noise Mi | tigation Measures | | |
| WORK B | ETWEEN SHING MUN TUNNEL | S BOAR | AND | FOOT | | | | | | | | | | N | Vaterpr |
| PRELIMINAR | ES WORKS | S NUAL | AND | FOUL | SRIDGE | NF71A (| ZONE | | | | | | | | |
| | TRAFFIC ARRAGEMENT | | | | | | | | | | | | | | |
| | TRAFFIC ARRAGEMENT | | | | | | | | | | | | •••• | | |
| TTA PERIOD | | | | | | | | | | | | | | | |
| Z1_1410 | Construction Zone 1_Stage 1 Southbound structure | 271 | 271 | 27-Feb-19 | 29-Jan-20 | 22-Jan-19 | 09-Oct-19 | | | | | | | | |
| PREPARATOR | YWORKS | | | | | | | | | | | | | | 100000 |
| TREE FELLI | NG/TRANPLANT | | | | | | | | | | _ | | - | | |
| Z1_1290 | | | | | | | | | | | | | | | |
| | Zone 1_tree felling works | 18 | 18 | 22-Jan-19 | 15-Feb-19 | 06-Nov-18 | 27-Nov-18 | | • | | ••••• | | | | |
| MODIFICATIO | ON EXISTING ROAD/TEMPORARY ROAD | | | | Cash Mark | | | | | | | ton a star | | Zone 1_tree | rewing |
| Z1_1270 | Zone 1-1_construct temporary road platform along Northbound with remove centre barrier | 73 | 73 | 15-Feb-19* | 18-May-19 | 27-Nov-18 | 22-Jan-19 | | | | | | | | |
| NOISE BARRI | ER AND SEMI-ENCLOSURE | | | | | the second second | | | | | | | | | |
| PILE FOUNDA | TION WORKS | | | | | | | | | | | | | | |
| SOUTHBOUN | ID | | | | | | | | | | | | | | |
| | | | | | | | CANADA LA | | | | | | | •••••• | <u>-</u> |
| Z1_1050 | R2_site investigation for R2-02P & 06P (7nr) | 18 | 18 | 27-Feb-19 | 20-Mar-19 | 22-Jan-19 | 15-Eeb-19 | | | | | | 1 | | - 10 |
| | | | | 27-Feb-19 | | 22-Jan-19 | 15-Feb-19 | | | | | | | • | |
| VORK BI | ETWEEN CITYLINE PLAZA AND | | | | | | 15-Feb-19 | | | | | | | • | _ |
| | ETWEEN CITYLINE PLAZA AND | | | | | | 15-Feb-19 | | | | | | | • | |
| | ETWEEN CITYLINE PLAZA AND | | | | | | 15-Feb-19 | | | | | | | • | |
| | ETWEEN CITYLINE PLAZA AND | | | | | | 15-Feb-19 | | | | | | | • | |
| VORK BI | ETWEEN CITYLINE PLAZA AND |) FOOTE | RIDG | E NF40 | (ZONE | 3) | | | | | | | | - | |
| VORK BI PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 | | RIDG | | (ZONE | | 15-Feb-19 | | | | | | | • | |
| VORK BI PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY | ETWEEN CITYLINE PLAZA AND ES WORKS IRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS |) FOOTE | RIDG | E NF40 | (ZONE | 3) | | | | | | | | • | |
| WORK BU PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS |) FOOTE | RIDG | E NF40 | (ZONE | 3) | | | | | | | | | |
| VORK BI PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY | ETWEEN CITYLINE PLAZA AND ES WORKS IRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS |) FOOTE | RIDG 324 | E NF40 | (ZONE 31-Mar-20 | 3) | | | | | | | | • | |
| WORK BL PRELIMINARII TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS | 9 FOOTE 324 | RIDG 324 | E NF40 27-Feb-19 | (ZONE 31-Mar-20 | 3) 22-Jan-19 | 11-Mar-20 | | | | | Zone 3_tree felling w | orks | • | |
| WORK BL PRELIMINARII TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS IG/TRANPLANT Zone 3_tree felling works | 9 FOOTE 324 | 324 18 | E NF40 27-Feb-19 20-Dec-18 | (ZONE 31-Mar-20 12-Jan-19 | 3) 22-Jan-19 28-Nov-18 | 11-Mar-20 19-Dec-18 | | • | | | Zone 3_tree felling w | orks | • | |
| WORK BU PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 | ETWEEN CITYLINE PLAZA AND ES WORKS (RAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS (G/TRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD | 324 18 | 324 18 | E NF40 27-Feb-19 | (ZONE 31-Mar-20 12-Jan-19 | 3) 22-Jan-19 | 11-Mar-20 | | | | | Zone 3_tree felling w | | Zone 3-1_rem | ove exis |
| VORK BU PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S | ETWEEN CITYLINE PLAZA AND ES WORKS (RAFFIC ARRAGEMENT Construction period of Zone 3a_1 CONSTRUCTION PERIOD AND CONSTRUCTION PORARY ROAD Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS | 324 18 | 324 18 | E NF40 27-Feb-19 20-Dec-18 | (ZONE 31-Mar-20 12-Jan-19 | 3) 22-Jan-19 28-Nov-18 | 11-Mar-20 19-Dec-18 | | | | | Zone 3_tree felling w | | Zone 3-1_rem | cove exi |
| VORK BU PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS | 324 18 | 324 18 | E NF40 27-Feb-19 20-Dec-18 | (ZONE 31-Mar-20 12-Jan-19 | 3) 22-Jan-19 28-Nov-18 | 11-Mar-20 19-Dec-18 | | | | | Zone 3_tree felling w | | Zone 3-1_rem | ove exi |
| WORK BU PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STR UC TURE WORKS S WORKS S WORKS | 324 18 | 324 18 | E NF40 27-Feb-19 20-Dec-18 | (ZONE 31-Mar-20 12-Jan-19 | 3) 22-Jan-19 28-Nov-18 | 11-Mar-20 19-Dec-18 | | | | | Zone 3_tree felling w | | Zone 3-1_rem | ove exi |
| VORK BU PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STR UC TURE WORKS S WORKS S WORKS | 324 18 | 324 18 | E NF40 27-Feb-19 20-Dec-18 | (ZONE 31-Mar-20 12-Jan-19 | 3) 22-Jan-19 28-Nov-18 | 11-Mar-20 19-Dec-18 | | | | | Zone 3_tree felling w | | Zone 3-1_rem | Cove exis |
| WORK BI PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND B PRELIMINARIE UTILITIES DIV NORTHBOUN | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STR UC TURE WORKS IS WORKS IERSION ID UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 | 324 18 21 | 324 18 21 | E NF40 27-Feb-19 20-Dec-18 14-Jan-19 | (ZONE 31-Mar-20 12-Jan-19 14-Feb-19 | 3) 22-Jan-19 28-Nov-18 19-Dec-18 | 11-Mar-20 19-Dec-18 22-Jan-19 | | | | | | | | |
| VORK BU PRELIMINARI TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV NORTHBOUN Z3_2910 | ETWEEN CITYLINE PLAZA AND ES WORKS IRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS ERSION UD UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 Som | 324 18 21 | 324 18 21 13 | E NF40 27-Feb-19 20-Dec-18 14-Jan-19 07-Jan-19 | (ZONE 31-Mar-20 12-Jan-19 14-Feb-19 22-Jan-19 | 3) 22-Jan-19 28-Nov-18 19-Dec-18 08-Dec-18 | 11-Mar-20 19-Dec-18 22-Jan-19 24-Dec-18 | | | | | | | | |
| VORK BU PRELIMINARII TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV NORTHBOUN Z3_2910 Z3_2920 | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS ERSION UD UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 Som UU_HKT-diversion cable for RW7 CH1830-2000 170m | 324 18 21 | 324 18 21 13 | E NF40 27-Feb-19 20-Dec-18 14-Jan-19 | (ZONE 31-Mar-20 12-Jan-19 14-Feb-19 22-Jan-19 | 3) 22-Jan-19 28-Nov-18 19-Dec-18 | 11-Mar-20 19-Dec-18 22-Jan-19 | | - | | | | | | 11675-1 |
| WORK BI PRELIMINARI TEMPORARY I TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV NORTHBOUN Z3_2910 Z3_2920 | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 Y WORKS IG/TRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS ERSION UD UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 Som UU_HKT-diversion cable for RW7 CH1830-2000 170m Level of Effort | 324 18 21 | 324 18 21 13 | E NF40 27-Feb-19 20-Dec-18 14-Jan-19 07-Jan-19 08-Jan-19 | (ZONE 31-Mar-20 12-Jan-19 14-Feb-19 22-Jan-19 20-Feb-19 | 3) 22-Jan-19 28-Nov-18 19-Dec-18 06-Dec-18 10-Dec-18 | 11-Mar-20 19-Dec-18 22-Jan-19 24-Dec-18 22-Jan-19 | | | | | | 2-abandoned 11ky ca | ble for RW6 CH | 11675-1 (T-diver |
| VORK BU PRELIMINARII TEMPORARY T TTA PERIOD Z3_3270 PREPARATORY TREE FELLIN Z3_2800 MODIFICATIO Z3_2810 BRIDGE AND S PRELIMINARIE UTILITIES DIV NORTHBOUN Z3_2910 Z3_2920 | ETWEEN CITYLINE PLAZA AND ES WORKS TRAFFIC ARRAGEMENT Construction period of Zone 3a_1 WORKS IGTRANPLANT Zone 3_tree felling works N EXISTING ROAD/TEMPORARY ROAD Zone 3-1_remove existing central barrier STRUCTURE WORKS S WORKS ERSION UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 S0m UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 S0m UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 S0m UU_HKT-diversion cable for RW7 CH1830-2000 170m Level of Effort Remaining Work | 324 18 21 | 324 18 21 13 | E NF40 27-Feb-19 20-Dec-18 14-Jan-19 07-Jan-19 08-Jan-19 | (ZONE 31-Mar-20 12-Jan-19 14-Feb-19 22-Jan-19 20-Feb-19 | 3) 22-Jan-19 28-Nov-18 19-Dec-18 06-Dec-18 10-Dec-18 | 11-Mar-20 19-Dec-18 22-Jan-19 24-Dec-18 22-Jan-19 FITTING NOIS | SE BARRIERS ON | TAI PO ROAD 0/11/18) | | | | | ble for RW6 CH | 11675-17 |

| | Activity Name | Duration | Remaining Duration | 3MRP Start | 3MRP Finish | DWP (AP2) | DWP (AP2) | Al | 2018 | | | | 2019 | |
|--|---|---------------|-----------------------|--|--|--|--|----------------|--|----------------|-------------------|-------------------------|--|-----------|
| Z3_2930 | UU_CLP-abandoned 11kv cable for RW7 & SR4 | | | | | Start | Finish | Nov 5 | | Dec 6 | Jan | | Feb | |
| | CH1825-1950 125m | 22 | 22 | 22-Jan-19 | 20-Feb-19 | 24-Dec-18 | 22-Jan-19 | | | | | | 8 | UU CLP-ab |
| Z3_3130 | UU_Fresh watermain for SR4 178m 200mm | 23 | 23 | 27-Feb-19 | 26-Mar-19 | 22-Dec-18 | 22-Jan-19 | | | | | | | |
| SOUTHBOI | DUND | | | | | | | | | | | | | |
| Z3_2970 | UU_HKT-new cable for RW1 & SR3 CH1450-2300 850m | 127 | 127 | 08-Feb-19 | 16-Jul-19 | 08-Feb-19 | 16-Jul-19 | | | | | | | |
| Z3_3050 | UU_CLP-abandoned 11kv cable for SR2 & N263 CH1710-1950 240m | 35 | 35 | 14-Jan-19 | 27-Feb-19 | 08-Dec-18 | 22-Jan-19 | | C. C | | | | | |
| Z3_3060 | UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1850 210m | 51 | 51 | 22-Dec-18 | 27-Feb-19 | 20-Nov-18 | 22-Jan-19 | | | | | | | |
| Z3_3070 | UU_HKT-diversion cable for SR2 & N263 CH1630-1840 | 39 | 39 | 09-Jan-19 | 27-Feb-19 | 04-Dec-18 | 22-Jan-19 | | | | | | | UL |
| Z3_3110 | 210m UU_GAS-diversion LP pipe for N263 CH1825-1960 | 38 | 38 | | 27-Feb-19 | 05-Dec-18 | 22-Jan-19 | | | | | | | UL |
| MIDENING FO | 135m FOR NORTH HOLLOW ABUTMENT (N264) | | | | 2110010 | 03-060-10 | 22-Jan-19 | | | | Francisco | | | UL. |
| Z3_4200 | C01_ELS & footing construction | 45 | 45 | 10 5 1 10 | | | | | | | | | | |
| Z3_4220 | N264_modification existing MTRC fencing for deck | | | 18-Feb-19 | | 22-Jan-19 | 19-Mar-19 | | | | | | and the second | |
| _ | widening | 60 | 60 | 18-Feb-19 | 03-May-19 | 22-Jan-19 | 05-Apr-19 | | | | | | | |
| | ON OF BRIDGE N263 | | | | | | | | | | | | | |
| MODIFICATIO | ION EXISTING PIER WALL OF N263 | | | | | | | | | | | | | |
| Z3_3870 | SAW-1_piling works for new NHA wall 3nr 1.5m bored pile | 42 | 42 | 27-Feb-19 | 18-Apr-19 | 22-Jan-19 | 15-Mar-19 | | | | | | | |
| RETAINING W | WALL & SUBWAY | | | | | | | | | | | | | |
| RETAINING V | WALL NO.6 | | E ARASA | 300 March | | The state of the second | | | | | | | | |
| Z3_4390 | RW6_ELS works for Bay 601 to Bay 608 (62m_2 side) | 35 | 35 | 15-Feb-19* | 27-Mar-19 | 22-Jan-19 | 07-Mar-19 | | | | | | | - |
| RETAINING V | WALL NO.7 | | | and the second | | | | | | | | | | |
| Z3_4510 | RW7_ELS works for Bay 701 to Bay 705 (75m_2 side) | 42 | 42 | 20-Feb-19 | 11 4 10 | | | | | | | | | |
| | | | | | 11-Apr-19 | 22-Jan-19 | 15-Mar-19 | | | | | - | | |
| DELIMINADI | | ID NF6 | 6 (ZO) | NE 4) | | | | | | | | - | | |
| | | | | | | | | | | | | | | |
| | TRAFFIC ARRAGEMENT | | | | | | | | | | | | | |
| TTA PERIOD | | | | | | | | ••••• | | | | | | |
| Z4_1470 | Construction Zone 4_NF66 Construction | 243 | 243 | 27-Feb-19 | 20-Dec-19 | 22-Jan-19 | 18-Nov-19 | | | | | | | |
| Z4_1480 | Construction Zone 4_NF40 Construction | 489 | 489 | 23- Jan- 19 | 16-Sep-20 | 00 1 40 | | | | | | | | 100000 |
| | | 409 | 403 | Lo ourris | 10 000-20 | 23-Jan-19 | 16-Sep-20 | | | | | | | |
| - | RY WORKS | 409 | 463 | 20 001-13 | 10 000-20 | 23-Jan-19 | 16-Sep-20 | | | | | | | |
| REPARATOR | RY WORKS | 403 | 463 | 20 001110 | 10 000-20 | 23-Jan-19 | 16-Sep-20 | | | | | | | |
| REPARATOR | | | | | | | | | | | | | | |
| REPARATOR TREE FELLIN Z4_1320 | NG/TRANPLANT Zone 4_NB tree felling works | 469 | | 28-Jan-19 | | 23-Jan-19 06-Nov-18 | 16-Sep-20 27-Nov-18 | | | | | | | Zone 4_NB |
| TREE FELLIN Z4_1320 | NG/TRANPLANT Zone 4_NB tree felling works VERSION | | | | | | | | | | | | | Zone 4_NB |
| REPARATOR TREE FELLIN Z4_1320 | ING/TRANPLANT Zone 4_NB tree felling works VERSION ND | 18 | 18 | 28-Jan-19 | 21-Feb-19 | | | | | | | | | Zone 4_NB |
| REPARATOR TREE FELLIN Z4_1320 UTILITIES DIV NORTHBOUN Z4_1270 | NG/TRANPLANT Zone 4_NB tree felling works VERSION ND UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m | | 18 | | 21-Feb-19 | | | | | | | | | Zone 4_NB |
| TREE FELLIN Z4_1320 TILITIES DIV NORTHBOUN Z4_1270 Z4_1300 | ING/TRANPLANT Zone 4_NB tree felling works VERSION ND UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m | 18 | 18 36 | 28-Jan-19 | 21-Feb-19 04-Apr-19 | 06-Nov-18 | 27-Nov-18 | | | | | | | Zone 4-NB |
| REPARATOR TREE FELLIN Z4_1320 TILITIES DIV NORTHBOUN Z4_1270 | NG/TRANPLANT Zone 4_NB tree felling works VERSION ND UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m | 18 36 | 18 36 5 | 28-Jan-19 21-Feb-19 | 21-Feb-19 04-Apr-19 27-Feb-19 | 06-Nov-18 27-Nov-18 | 27-Nov-18 11-Jan-19 | | | | | | | |
| REPARATOR TREE FELLIN Z4_1320 TILITIES DIV NORTHBOUN Z4_1270 Z4_1300 Z4_1360 | ING/TRANPLANT Zone 4_NB tree felling works VERSION ND UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m | 18 36 5 | 18 36 5 | 28-Jan-19 21-Feb-19 21-Feb-19 | 21-Feb-19 04-Apr-19 27-Feb-19 | 06-Nov-18 27-Nov-18 16-Jan-19 | 27-Nov-18 11-Jan-19 22-Jan-19 | | | | | | | |
| REPARATOR TREE FELLIN Z4_1320 TILITIES DIV NORTHBOUN Z4_1270 Z4_1300 Z4_1360 | NG/TRANPLANT Zone 4_NB tree felling works VERSION ND UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m UU_Fresh watermain for N4 CH2150-2200 77m 600mm STRUCTURE WORKS | 18 36 5 | 18 36 5 | 28-Jan-19 21-Feb-19 21-Feb-19 27-Feb-19 | 21-Feb-19 04-Apr-19 27-Feb-19 16-Apr-19 | 06-Nov-18 27-Nov-18 16-Jan-19 03-Dec-18 | 27-Nov-18 11-Jan-19 22-Jan-19 22-Jan-19 | | | | | | | |
| REPARATOR TREE FELLIN Z4_1320 TILITIES DIV NORTHBOUN Z4_1270 Z4_1300 Z4_1360 | NG/TRANPLANT Zone 4_NB tree felling works VERSION ND UU_CLP-abandoned 33kv cable for N4 CH2100-2350 250m UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m UU_Fresh watermain for N4 CH2150-2200 77m 600mm STRUCTURE WORKS vel of Effort Remaining Work vel of Effort Critical Remaining Work | 18 36 5 | 18 36 5 | 28-Jan-19 21-Feb-19 21-Feb-19 27-Feb-19 | 21-Feb-19 04-Apr-19 27-Feb-19 16-Apr-19 | 06-Nov-18 27-Nov-18 16-Jan-19 03-Dec-18 | 27-Nov-18 11-Jan-19 22-Jan-19 22-Jan-19 | SE BARRIERS ON | TAI PO ROAD (SH | A TIN SECTION) | Date 05/12/18 3MF | Revision IP DWP 1811 | Checked | Zone 4_NB |

| ctivity ID | Activity Name | Original Duration | Remaining Duration | 3MRP Start | 3MRP Finish | DWP (AP2) | DWP (AP2) | | 2018 | | 2019 | |
|--------------|--|----------------------|-----------------------|------------|----------------|-----------|-----------|-----|------|-----|------|----|
| | | | Saration | | T IIIISI | Start | Finish | Nov | Dec | Jan | Feb | Ma |
| MODIFICATION | WORKS FOR NF40 | | | | 1 | | | 5 | 6 | 7 | 8 | 9 |
| NF40_1000 | Construct temporary staircase | 60 | 60 | 23-Jan-19 | 05-Apr-19 | 23-Jan-19 | 05-Apr-19 | | | | | |
| MODIFICATION | WORKS FOR NF66 | | | | | | | | | | | |
| NF66_1000 | Piling for NF66 new support 12nr mini pile | 48 | 48 | 27-Feb-19 | 29-Apr-19 | 22-Jan-19 | 22-Mar-19 | | | | | |
| | | the second | | | | | | | | | | |

| Remaining Level of Effort Remaining Work | | | | | |
|--|--|----------|---------------|---------|--------|
| Actual Level of Effort Critical Remaining Wo | ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION) | Date | Revision | Checked | Approv |
| Primary Baseline | 3 Months Rolling Programme (30/11/18) | 05/12/18 | 3MRP DWP 1811 | Tim | |
| Actual Work | Page 6 of 6 | | | | |

| | Activity Name | | Remaining 3MRP Star Duration | rt 3MRP Finish D | WP (AP3) [Start | DWP (AP3) Finish | 2018 Dec | Jan | Feb | 2019 |
|---|---|--|---|---|---|---|--------------|--|--|---|
| Contract | t NE/2017/05 Road Widening and I | Retrofi | tina Noise B | arriers on T | ai Po R | load | 6 | 7 | 8 | |
| | CT KEY DATES | | . | | | | | | | |
| POSSESSIO | | | | | | | | | | |
| KEY1050 | Possession of Portion D | 0 | 0 23-Jan-19 | * 2 | 23-Jan-19 | | | Possession | n of Portion D | |
| PRELIM | IINARIES & GENERAL REQUIREM | ENT | | | | | | | | |
| | SUBMISSION | | | | | - | | | | |
| SUB1115 | Survey of the Site | 0 | 0 31-Dec-18 | * 3 | 30-Nov-18 | | | Survey of the Site | | |
| SUB1153 | BIM Team | 0 | 0 31-Dec-18 |)* <u> </u> | 30-Nov-18 | | | ◆ BIM Team | | |
| SUB1155 | BIM Execution Plan | 0 | 0 31-Dec-18 | | 30-Nov-18 | | | BIM Execution Plan | | |
| SUB1180 | Recording photo | 0 | 0 31-Dec-18 | | 30-Nov-18 | | | Recording photo | | |
| | | 0 | | | | | | - | | |
| SUB1200 | Hoarding Plan | | 0 31-Dec-18 | | 30-Nov-18 | | | Hoarding Plan | | |
| SUB1305 | Holding nursery for transplanted trees | 0 | 0 31-Dec-18 | | 30-Nov-18 | | | Holding nursery for transplanted trees | | |
| SUB1307 | Geotechnical monitoring personnel | 0 | 0 31-Dec-18 | * 3 | 30-Nov-18 | | | Geotechnical monitoring personnel | | |
| SUB1309 | Geotechnical monitoring proposal | 0 | 0 31-Dec-18 | * 3 | 30-Nov-18 | | | Geotechnical monitoring proposal | | |
| SUB1343 | TCSS Configuration Management | 0 | 0 31-Dec-18 | * 3 | 30-Nov-18 | | | TCSS Configuration Management | | |
| SUB1347 | Lift Installation - Design Data | 0 | 0 31-Dec-18 | * 3 | 30-Nov-18 | | | Lift Installation - Design Data | | |
| SUB1360 | Video Script | 0 | 0 14-Jan-19 | * | 14-Jan-19 | | | Video Script | | |
| SUB1403 | ITP's for Lighting Luminaires and System | 0 | 0 31-Dec-18 | * 3 | 30-Nov-18 | | | ITP's for Lighting Luminaires and System | | |
| SUB1405 | All Lighting Designs | 0 | 0 31-Dec-18 | .* 3 | 30-Nov-18 | | | ♦ All Lighting Designs | | |
| SUB1410 | Combined Services Drawings (CSD) | 0 | 0 31-Dec-18 | .* 3 | 30-Nov-18 | | | Combined Services Drawings (CSD) | | |
| DESIGN | SUBMISSION | | | | | | | | | |
| GENERAL | | | | | | | | | | |
| DES1030 | PM Consent for Contruction | 28 | 25 18-Sep-18 | A 24-Jan-19 3 | 30-Nov-18 | 27-Dec-18 | | PM Cons | ent for Contruction | |
| | ERCHANGE MODIFICATION WORKS (Alternative Desig | | | | | | | | | |
| DES1070 | PM Consent for Construction | 28 | 20 06 Nov 18 | A 21-Feb-19 2 | 20 Jan 19 | 16 Eob 10 | | | DM Com | ant fax Cana |
| | | | | | | | | | | sent for Cons |
| DES1080 | Prepare & submit Alternative Design for Modification of Bridge N263 w/Design Certificate | 21 | | | | 20-Dec-18 | Prepare & su | bmit Alternative Design for Modification of Bridge N26 | 3 w/Design Certificate | |
| DES1090 | PM review & comment | 28 | 10 07-Dec-187 | | 05-Dec-18 | 01-Jan-19 | | PM review & comment | | |
| DES1100 | Re-submit Alternative Desing for Modification of Bridge N263 w/Design Certificate | 23 | 23 11-Jan-19 | 9 02-Feb-19 0 | 03-Jan-19 | 25-Jan-19 | | | Re-submit Alternative Desing for Modifie | cation of Brid |
| DES1110 | PM Consent for Construction | 28 | 28 03-Feb-19 | 9 02-Mar-19 2 | 26-Jan-19 | 22-Feb-19 | | | | PM Co |
| DES1120 | Prepare & submit Alternative Design of Bridges SR2 & SR5, Slab Widening of SHA & Widening of Bridge N262 | 21 | 17 30-Nov-187 | A 16-Jan-19 0 | 01-Dec-18 | 21-Dec-18 | | | native Design of Bridges SR2 & SR5, Slab Wi | |
| | PM review & comment | 28 | 28 17-Jan-19 | 9 13-Feb-19 2 | 25-Dec-18 | 21-Jan-19 | | | PM review & commer | |
| DES1130 | Re-submit Alternative Design of Bridges SR2 & SR5, | 28 | 28 14-Feb-19 | 9 13-Mar-19 2 | 22-Jan-19 | 18-Feb-19 | | | | |
| DES1130 DES1140 | | | | | | | | | | |
| | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction | 28 | 28 14-Mar-19 | 9 10-Apr-19 1 | 19-Feb-19 | 18-Mar-19 | | | | |
| DES1140 DES1150 | Slab Widening of SHA & Widening of Bridge N262 | 28 | 28 14-Mar-19 | 9 10-Apr-19 1 | 19-Feb-19 | 18-Mar-19 | | | | |
| DES1140 DES1150 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES | | | | | | | Re-submit Foundation [| esion of Noise Mitigation Measures in Zones | 1 & 2 w/Des |
| DES1140 DES1150 NOISE MITIC DES1180 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate | 22 | 12 24-Nov-18/ | A 11-Jan-19 2 | 25-Dec-18 | 15-Jan-19 | | Re-submit Foundation D | Design of Noise Mitigation Measures in Zones | |
| DES1140 DES1150 NOISE MITIC DES1180 DES1190 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction | 22 28 | 12 24-Nov-18 / 28 25-Jan-11 | A 11-Jan-19 2 9 21-Feb-19 1 | 25-Dec-18 16-Jan-19 | 15-Jan-19 12-Feb-19 | | | PM Con | sent for Cons |
| DES1140 DES1150 NOISE MITTO DES1180 DES1190 DES1220 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate | 22 28 23 | 12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 / | A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18 A 2 | 25-Dec-18 16-Jan-19 21-Dec-18 | 15-Jan-19 12-Feb-19 12-Jan-19 | | | PM Con: n of Noise Mitigation Measures in Zones 4 & 5 | sent for Cons 5 w/Design C |
| DES1140 DES1150 NOISE MITIC DES1180 DES1190 DES1220 DES1230 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate PM Consent for Construction | 22 28 23 28 | 12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 / 28 25-Jan-19 | A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18A 2 9 21-Feb-19 1 | 25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19 | 15-Jan-19 12-Feb-19 12-Jan-19 09-Feb-19 | | Re-submit Foundation Desig | PM Con- | sent for Cons 5 w/Design C sent for Cons |
| DES1140 DES1150 NOISE MITTO DES1180 DES1190 DES1220 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate | 22 28 23 | 12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 / | A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18A 2 9 21-Feb-19 1 | 25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19 | 15-Jan-19 12-Feb-19 12-Jan-19 | | Re-submit Foundation Desig | PM Con: n of Noise Mitigation Measures in Zones 4 & 5 | sent for Cons 5 w/Design C sent for Cons |
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| DES1140 DES1150 NOISE MITTO DES1180 DES1190 DES1220 DES1220 DES1230 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate PM Consent for Construction Perpare & submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate PM Consent for Construction Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate PM review & comment Re-submit Foundation Design of Noise Mitigation | 22 28 23 28 28 21 | 12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 / 28 25-Jan-19 8 26-Nov-18 / | A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18 A 2 9 21-Feb-19 1 A 31-Dec-18 A 2 9 21-Feb-19 1 A 07-Jan-19 3 9 04-Feb-19 2 | 25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19 30-Nov-18 | 15-Jan-19 12-Feb-19 12-Jan-19 09-Feb-19 20-Dec-18 | | Re-submit Foundation Desig | PM Con- n of Noise Mitigation Measures in Zones 4 & 5 PM Con- of Mitigation Measures in Zone 3 w/Design C | sent for Cons 5 w/Design Co sent for Cons |
| DES1140 DES1150 NOISE MITTO DES1180 DES1190 DES1220 DES1230 DES1240 DES1250 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate PM Consent for Construction Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate PM Consent for Construction Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate PM review & comment | 22 28 23 28 21 28 21 28 | 12 24-Nov-187 28 25-Jan-19 0 10-Nov-187 28 25-Jan-19 8 26-Nov-187 28 08-Jan-19 | A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18 A 2 9 21-Feb-19 1 A 07-Jan-19 3 9 04-Feb-19 2 9 28-Feb-19 1 | 25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19 30-Nov-18 21-Dec-18 | 15-Jan-19 12-Feb-19 12-Jan-19 09-Feb-19 20-Dec-18 17-Jan-19 | | Re-submit Foundation Desig | PM Con- n of Noise Mitigation Measures in Zones 4 & 5 PM Con- of Mitigation Measures in Zone 3 w/Design C | sent for Cons 5 w/Design Cons sent for Cons entificate |
| DES1140 DES1150 NOISE MITTO DES1180 DES1200 DES1220 DES1230 DES1240 DES1250 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction GATION MEASURES Re-submit Foundation Design of Noise Mitigation Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction Re-submit Foundation Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate PM Consent for Construction Prepare & submit Foundation Design of Mitigation Measures in Zone 3 w/Design Certificate PM review & comment Re-submit Foundation Design of Noise Mitigation Measures in Zone 3 w/Design Certificate | 22 28 23 28 21 28 21 28 23 | 12 24-Nov-18 / 28 25-Jan-19 0 10-Nov-18 / 28 25-Jan-19 28 26-Nov-18 / 28 08-Jan-19 28 08-Jan-19 28 08-Jan-19 | A 11-Jan-19 2 9 21-Feb-19 1 A 31-Dec-18 A 2 9 21-Feb-19 1 A 07-Jan-19 3 9 04-Feb-19 2 9 28-Feb-19 1 | 25-Dec-18 16-Jan-19 21-Dec-18 13-Jan-19 30-Nov-18 21-Dec-18 19-Jan-19 | 15-Jan-19 12-Feb-19 12-Jan-19 09-Feb-19 20-Dec-18 17-Jan-19 10-Feb-19 | | Re-submit Foundation Design | PM Con- n of Noise Mitigation Measures in Zones 4 & 5 PM Con- of Mitigation Measures in Zone 3 w/Design C | sent for Cons 5 w/Design C sent for Cons ertificate Re-subm |

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| IA & Widening of Bridge N262 | | rt. |
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| Re-submit Alterna | tive Design c | of Bridges SR2 & SR5, Slab Widening of SHA & |
| | | PM Consent for Construction |
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| it Foundation Design of Noise | Mitigation Me | easures in Zone 3 w/Design Certificate |
| | PM Co | onsent for Construction |
| Measures in Zones 1 & 2 w/De | sign Certific | ate |
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| ity ID | Activity Name | Original Duration | Remaining Duration | 3MRP Star | 3MRP Finish | DWP (AP3) Start | DWP (AP3) Finish | 2018 Dec 6 | Jan 7 | Feb | 2019 |
|-----------|---|----------------------|-----------------------|-------------|---------------------------|--------------------|---------------------|--|--|--|--------------|
| DES1290 | PM review & comment | 28 | 28 | 29-Jan-19 | 25-Feb-19 | 11-Jan-19 | 07-Feb-19 | U | | | PM revie |
| DES1300 | Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate | 20 | 20 | 27-Feb-19 | 18-Mar-19 | 09-Feb-19 | 28-Feb-19 | | | | _ <u>_</u> ; |
| DES1310 | PM Consent for Construction | 28 | 28 | 19-Mar-19 | 15-Apr-19 | 01-Mar-19 | 28-Mar-19 | | | | _ |
| DES1320 | Prepare & submit Superstructure Design of Noise | 21 | 21 | 29-Jan-19 | 18-Feb-19 | 11-Jan-19 | 31-Jan-19 | | | Prepare & si | submit Sı |
| DES1330 | Mitigation Measures in Zone 3 w/Design Certificate PM review & comment | 28 | 28 | 19-Feb-19 | 18-Mar-19 | 01-Feb-19 | 28-Feb-19 | | | | |
| DES1340 | Re-submit Superstructure Design of Noise Mitigation | 21 | 21 | 20-Mar-19 | 09-Apr-19 | 02-Mar-19 | 22-Mar-19 | | | | |
| DES1360 | Measures in Zone 3 w/Design Certificate Prepare & submit Superstructure Design of Noise | 21 | 21 | 19-Feb-19 | 11-Mar-19 | 01-Feb-19 | 21-Feb-19 | | | | |
| DES1370 | Mitigation Measures in Zones 4 & 5 w/Design PM review & comment | 28 | 28 | 12-Mar-19 | 08-Apr-19 | 22-Feb-19 | 21-Mar-19 | | | | |
| EMAINING | WORKS | | | | | | | | | | |
| DES1410 | PM review & comment | 28 | 0 | 29-Oct-18 A | 20-Dec-18 A | 30-Nov-18 | 27-Dec-18 | PM | review & comment | | |
| DES1420 | Re-submit Foundation Design of Retaining Walls RW1. | | | 21-Dec-18 A | | | | | | Po submit Foundation Design of Potaining | |
| | RW3, RW6 & RW7 w/Design Certificate | | | | | | | | | Re-submit Foundation Design of Retaining | |
| DES1430 | PM Consent for Construction | 28 | | | | | | | | | PN |
| ES1440 | Prepare & submit Foundation Design of Footbridge NF40 & NF66 w/Design Certificate | 21 | 0 | 16-Nov-18 A | 31-Dec-18 A | 30-Nov-18 | 20-Dec-18 | | Prepare & submit Foundation Design of Foot | oridge NF40 & NF66 w/Design Certificate | |
| ES1450 | PM review & comment | 28 | 28 | 31-Dec-18 | 27-Jan-19 | 05-Dec-18 | 01-Jan-19 | | ÷ | PM review & comment | |
| ES1460 | Re-submit Foundation Design of Footbridge NF40 & NF66 w/Design Certificate | 35 | 35 | 29-Jan-19 | 04-Mar-19 | 03-Jan-19 | 30-Jan-19 | | | - | |
| ES1470 | PM Consent for Construction | 28 | 28 | 05-Mar-19 | 01-Apr-19 | 31-Jan-19 | 27-Feb-19 | | | <u>.</u> | - |
| ES1480 | Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign | 21 | 8 | 26-Nov-18 A | 07-Jan-19 | 05-Dec-18 | 25-Dec-18 | | Prepare & submit Foundation De | sign of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cyc | cle Trac |
| ES1490 | PM review & comment | 28 | 28 | 08-Jan-19 | 04-Feb-19 | 26-Dec-18 | 22-Jan-19 | | | PM review & comment | |
| ES1500 | Re-submit Foundation Design of Pedestrian Lift 1 & 2, | 35 | 35 | 06-Feb-19 | 12-Mar-19 | 24-Jan-19 | 27-Feb-19 | | | | <u> </u> |
| ES1510 | Lift 2 Staircase, Cycle Track Ramp & Sign Gantry PM Consent for Construction | 28 | 28 | 13-Mar-19 | 09-Apr-19 | 28-Feb-19 | 27-Mar-19 | | | | |
| ES1520 | Prepare & submit Design of Water main & Irrigation | 35 | 0 | 20-Nov-18 A | 31-Dec-18 A | 30-Nov-18 | 03-Jan-19 | | Prepare & submit Design of Watermair | & Irrigation System w/Design Certificate | |
| ES1530 | System w/Design Certificate PM review & comment | 28 | 28 | 31-Dec-18 | 27-Jan-19 | 05-Dec-18 | 01-Jan-19 | | | PM review & comment | |
| ES1540 | Re-submit Design of Watermain & Irrigation System | 32 | 32 | 29-Jan-19 | 01-Mar-19 | 03-Jan-19 | 30-Jan-19 | | | | |
| ES1550 | w/Design Certificate PM Consent for Construction | 28 | | | | 31-Jan-19 | | | | — | |
| ES1560 | Prepare & submit Design of E&M System (E&M & Road | | | | | 05-Dec-18 | | | | Prepare & submit Design of E&M Sys | - |
| | Lighting) w/Design Certificate | | | | | | | | | | Sterin (E |
| ES1570 | PM review & comment | 28 | | | | 09-Jan-19 | | | | | |
| ES1580 | Re-submit Design of E&M System (E&M & Road Lighting) w/Design Certificate | 32 | 32 | 05-Mar-19 | 05-Apr-19 | 07-Feb-19 | 10-Mar-19 | | | | |
| | TING & PROCUREMENT SCHEI | DULE | | | | | | | | | |
| JBLETTING | | | | | | | | | | | |
| PS1000 | Maintenance of Traffic Flow | 30 | 30 | 31-Dec-18 | 29-Jan-19 | 18-Dec-18 | 16-Jan-19 | | | Maintenance of Traffic Flow | |
| PS1010 | Electronic Document Management System (EDMS) for the use of the Project Manager | 30 | 12 | 18-Oct-18 A | 11-Jan-19* | 30-Nov-18 | 29-Dec-18 | | Electronic Document Mar | agement System (EDMS) for the use of the Project | ct Man |
| PS1030 | Hoarding and Signboard | 30 | 30 | 31-Dec-18 | 29-Jan-19 | 30-Nov-18 | 29-Dec-18 | | | Hparding and Signboard | |
| PS1040 | Survey of the Site | 30 | 30 | 31-Dec-18 | 29-Jan-19 | 18-Dec-18 | 16-Jan-19 | | | Survey of the Site | |
| PS1060 | Security System of the Site | 30 | 30 | 31-Dec-18 | 29-Jan-19 | 30-Nov-18 | 29-Dec-18 | | | Security System of the Site | |
| PS1090 | Building Information Model (BIM) | 30 | 30 | 31-Dec-18 | 29-Jan-19 | 30-Nov-18 | 29-Dec-18 | | | Building Information Model (BIM) | |
| PS1140 | Site Clearance and Demolition Work | 30 | 30 | 30-Jan-19 | 28-Feb-19 | 17-Jan-19 | 15-Feb-19 | | | | = Si |
| PS1160 | Monitoring and Instrumentation | 30 | 30 | 01-Mar-19 | 30-Mar-19 | 16-Feb-19 | 17-Mar-19 | | | | |
| PS1170 | Piling Works and Pile Testing | 30 | 30 | 01-Jan-19 | 30-Jan-19 | 30-Nov-18 | 29-Dec-18 | | | Piling Works and Pile Testing | |
| PS1200 | Waterwork (Pipework) | 30 | | | | | | | | Waterwork (Pipework) | |
| PS1210 | Drainage (PC pipe, manhole & gully) and Duct | 30 | | | | 29-Jan-19 | | | | ······································ | |
| PS1220 | CCTV for Drainage Pipe | 30 | | | | | | | | CCTV for Drainage Pipe | - |
| | | | | | | | | | | _ | |
| PS1240 | Reinforced Concrete Work for Retaining Walls | 30 | | | | | | | | Reinforced Concrete Work for Retaining Wall | |
| PS1250 | Reinforced Concrete Work for Noise Mitigation Measures | 30 | | | | 18-Dec-18 | | | | Reinforced Concrete Work for Noise Mitigatio | on Mea |
| PS1260 | Reinforced Concrete Work for Bridge Work | 30 | 30 | 15-Mar-19 | 13-Apr-19 | 16-Feb-19 | 17-Mar-19 | | | | |
| PS1290 | Steelwork for NB and Lift Tower | 30 | 30 | 11-Jan-19 | 09-Feb-19 | 11-Jan-19 | 09-Feb-19 | | | Steelwork for NB and Lift To | ower |
| PS1410 | Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & Signature) | 30 | 30 | 31-Dec-18 | 29-Jan-19 | 01-Dec-18 | 30-Dec-18 | | | Pedestrian Lift (Lift Cars, E&M, Panel, Lourve | ə & Sig |
| PS1420 | Lighting System for Noise Mitigation Measures | 30 | 30 | 31-Dec-18 | 29-Jan-19 | 12-Dec-18 | 10-Jan-19 | | | Lighting System for Noise Mitigation Measure | es |
| | maining Level of Effort Actual Wo ual Level of Effort Remaining | | ◇ | | aseline Milest lestone | one | ROAD W | IDENING & RETROFITTING N 3 Months R | OISE BARRIERS ON TAI PO olling Programme (31/12/18) | | D 10-J |

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| | | PM Consent for Const |
| ucture Design of Noise Mitiaa | tion Measure | es in Zone 3 w/Design Certificate |
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| Prepare & submit Sup | erstructure | Design of Noise Mitigation Measures in Zones |
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| submit Foundation Design of | Footbridge N | NF40 & NF66 w/Design Certificate |
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| | | PM Consent for Construction |
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| & Sign Gantry w/Design C | | |
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| Re-submit Foundati | on Design o | f Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle T |
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| oad Lighting) w/Design Certifi | cate | |
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| tivity ID | Activity Name | | emaining? Duration | | t 3MRP Finish | DWP (AP3) Star | | 2018 Dec | Jan | Feb | 2019 |
| SPS1440 | Drainage for Noise Mitigation Measures | 30 | 30 | 31-Dec-1 | 8 29-Jan-19 | 12-Dec-18 | 8 10-Jan-19 | 6 | 7 | B Drainage for Noise Mitigation Measures | |
| SPS1460 | Waterproofing (Bitumen Paint) | 30 | 30 | 29-Jan-1 | 9 27-Feb-19 | 25-Jan-19 | 9 23-Feb-19 | | | | Waterproofing |
| | | | | | | | | | | | |
| | ETWEEN SHING MUN TUNNEL | S RUAD | AND | FOOTE | SRIDGE | NF/1A (| 20NE 1) | | | | |
| _ | | | | | | | | | | | |
| PREPARATOR | | | | | | | | | | | |
| TREE FELLI | NG/TRANPLANT | | | | | | | | | | |
| Z1_1290 | Zone 1_tree felling works | 18 | 18 | 09-Feb-1 | 9 02-Mar-19 | 22-Jan-19 | 9 15-Feb-19 | | | | Zone 1_tre |
| MODIFICATIO | ON EXISTING ROAD/TEMPORARY ROAD | | | | | | | | | | |
| Z1_1270 | Zone 1-1_construct temporary road platform along | 45 | 45 | 02-Mar-1 | 9 29-Apr-19 | 15-Feb-19 | 9 18-May-19 | | | | |
| Z1_1280 | Northbound Zone 1-1_remove existing central barrier | 21 | 21 | 26-Mar-1 | 9 29-Apr-19 | 15-Apr-19 | 9 17-May-19 | | | | |
| UTILITIES DIV | /ERSION | | | | | | | | | | |
| NORTHBOU | ND | | | | | | | | | | |
| Z1 1330 | UU CLP-abandoned 33kv cable for R1 & R2 CH1075 | 11 | - 11 | 28-Mar-1 | 9 10-Apr-19 | 03-Apr-19 | 9 17-Apr-19 | | | | |
| | 30m | 11 | 11 | | | | 9 17-Api-19 | | | | |
| - | ETWEEN CITYLINE PLAZA AND | D FOOTB | BRIDG | ENF40 | (ZONE : | 3) | | | | | |
| PRELIMINARI | IES WORKS | | | | | | | | | | |
| PREPARATOR | RYWORKS | | | | | | | | | | |
| TREE FELLI | NG/TRANPLANT | | | | | | | | | | |
| Z3_2800 | Zone 3_tree felling works | 18 | 18 | 31-Dec-1 | 8 21-Jan-19 | 20-Dec-18 | 8 12-Jan-19 | | | Zone 3_tree felling works | |
| MODIFICATIO | ON EXISTING ROAD/TEMPORARY ROAD | | | | | | | | | | |
| Z3_2810 | Zone 3-1_remove existing central barrier | 21 | 21 | 22-Jan-1 | 9 22-Feb-19 | 14-Jan-19 | 9 14-Feb-19 | | | | Zone 3-1 remove exist |
| | | | | | | | | | | | |
| PRELIMINARI | | | | | | | | | | | |
| | | | | | | | | | | | |
| UTILITIES DI | IVERSION | | | | | | | | | | |
| NORTHBOL | JND | | | | | | | | | | |
| Z3_2910 | UU_CLP-abandoned 11kv cable for RW6 CH1675-1725 50m | 5 13 | 13 | 15-Jan-1 | 9 30-Jan-19 | 07-Jan-19 | 9 22-Jan-19 | | | UU_CLP-abandoned 11kv cable for RV | V6 CH1675-1725 50m |
| Z3_2920 | UU_HKT-diversion cable for RW7 CH1830-2000 170m | n 34 | 34 | 16-Jan-1 | 9 28-Feb-19 | 08-Jan-19 | 9 20-Feb-19 | | | | UU_HKT-dive |
| Z3_2930 | UU_CLP-abandoned 11kv cable for RW7 & SR4 | 22 | 22 | 30-Jan-1 | 9 28-Feb-19 | 22-Jan-19 | 9 20-Feb-19 | | | | UU_CLP-aba |
| SOUTHBOL | CH1825-1950 125m JND | | | | | | | | | | |
| Z3_2970 | UU_HKT-new cable for RW1 & SR3 CH1450-2300 | 127 | 127 | 08-Feb-1 | 9 16-Jul-19 | 08-Feb-19 | 9 16-Jul-19 | | | | |
| Z3_3050 | 850m UU CLP-abandoned 11kv cable for SR2 & N263 | 35 | 35 | | | | | | | | |
| | CH1710-1950 240m | | | | | | | | | | |
| Z3_3060 | UU_GAS-diversion LP pipe for SR2 & N263 CH1640-1850 210m | 51 | 51 | | | | | | | | _ |
| Z3_3070 | UU_HKT-diversion cable for SR2 & N263 CH1630-184 210m | | 39 | | | | | | | | — |
| Z3_3110 | UU_GAS-diversion LP pipe for N263 CH1825-1960 135m | 38 | 38 | 15-Feb-1 | 9 30-Mar-19 | 10-Jan-19 | 9 27-Feb-19 | | | | - |
| WIDENING FO | OR NORTH HOLLOW ABUTMENT (N264) | | | | | | | | | | |
| Z3_4200 | C01_ELS & footing construction | 45 | 45 | 21-Feb-1 | 9 16-Apr-19 | 18-Feb-19 | 9 11-Apr-19 | | | | |
| Z3_4220 | N264_modification existing MTRC fencing for deck | 60 | 60 | 21-Feb-1 | 9 08-May-19 | 18-Feb-19 | 9 03-May-19 | | | | 1 |
| RETAINING W | widening VALL & SUBWAY | | | | | | | | | | |
| RETAINING \ | WALL NO.6 | | | | | | | | | | |
| Z3_4390 | RW6_ELS works for Bay 601 to Bay 608 (62m_2 side) | 35 | 35 | 23-Feb-1 | 9 04-Apr-19 | 15-Feb-19 | 9 27-Mar-19 | | | _ | |
| | | | | 23-Feb-1 | 9 04-Api-19 | 13-Feb-18 | 9 27-IVIdI-19 | | | | |
| RETAINING \ | WALL NO.7 | | | | | | | | | | |
| Z3_4510 | RW7_ELS works for Bay 701 to Bay 705 (75m_2 side) | 42 | 42 | 28-Feb-1 | 9 23-Apr-19 | 20-Feb-19 | 9 11-Apr-19 | | | — | 1 |
| WORK B | ETWEEN FOOTBRIDGE NF40 A | AND NF6 | 6 (ZO | NE 4) | | | | | | | |
| PRELIMINARI | | | | | | | | | | | |
| TEMPORARY | | | | | | | | | | | |
| TTA PERIOD | | | | | | | | | | | |
| Z4_1480 | Construction Zone 4_NF40 Construction | 489 | 489 | 23-Jan-1 | 9 16-Sep-20 | 23-Jan-19 | 9 16-Sep-20 | | | | **** |
| | | 405 | 403 | 23-0411-1 | 9 10-3ep-20 | 23-3 dil-18 | 9 10-3ep-20 | | | | |
| PREPARATOR | RYWORKS | | | | | | | | | | |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | • | A - | | | BA • F • ² | | | | Date |
| | naining Level of Effort Actual Wo | | | | aseline Miles | sione | HOAD W | | | AI PO ROAD (SHA TIN SECTION) | 10-Jan-19 3M |
| | ual Level of Effort Remaining | - | • | ● M | ilestone | | | 3 Months F | Rolling Programme (31/ | 12/18) | |
| Prin | nary Baseline Critical Re | emaining Wo | ULK | | | | | | Page 3 of 4 | | |
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| | UU_CLP-abandone |
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| tion applied berief | |
| ting central barrier | |
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| | |
| ersion cable for RW7 CH1830-2000 1 | 70m |
| andoned 11kv cable for RW7 & SR4 C | |
| andoned TTKV cable for RVV7 & SR4 C | H1825-1950 12500 |
| | |
| | |
| | UU_CLP-abandoned 11kv cable for SR2 & N263 |
| | UU_GAS-diversion LP pipe for SR2 & N263 CH1 |
| | UU_HKT-diversion cable for SR2 & N263 CH163 |
| | UU_GAS-diversion LP pipe for N263 CH1825-19 |
| | |
| | C01_ELS & footing c |
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| | RW6_ELS works for Bay 601 to Bay 608 |
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| | RW7_EL |
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| Revision Checke | d Approved |
| IRP DWP 1812 Tim | |
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| ctivity ID | Activity Name | Original | Remaining | 3MRP Start | 3MRP Finish | DWP (AP3) | DWP (AP3) | 2018 | | 2 | 2019 |
|----------------|---|----------|-----------|------------|-------------|-----------|-----------|------|-----|-----|------|
| | | Duration | Duration | | | Start | | Dec | Jan | Feb | |
| | | | | | | | | 6 | 7 | 8 | I |
| TREE FELLING | G/TRANPLANT | | | | | | | | | | |
| Z4_1320 | Zone 4_NB tree felling works | 18 | 18 | 05-Mar-19 | 26-Mar-19 | 28-Jan-19 | 21-Feb-19 | | | | |
| UTILITIES DIVE | ERSION | | | | | | | | | | |
| NORTHBOUN | ID | | | | | | | | | | |
| Z4_1300 | UU_HKT-slew cable for N4 & NF66 CH2320-2360 40m | 5 | 5 | 26-Mar-19 | 01-Apr-19 | 21-Feb-19 | 27-Feb-19 | | | | |
| BRIDGE AND S | STRUCTURE WORKS | J I | | - | | | | | | | |
| MODIFICATION | N WORKS FOR NF40 | | | | | | | | | | |
| NF40_1000 | Construct temporary staircase | 60 | 60 | 23-Jan-19 | 05-Apr-19 | 23-Jan-19 | 05-Apr-19 | | | | - |
| | | | | | | | | | | | 1 |

| Remaining Level of Effort | |
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Actual Level of EffortPrimary Baseline

Actual Work
Remaining Work

Baseline Milestone
 Milestone

 Remaining Work

 Milestone
 Critical Remaining Work
 Milestone

 Date

 Date

 3 Months Rolling Programme (31/12/18)

 Page 4 of 4

| Mar 9 | Apr 10 |
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| 9 | 10 |
| | |
| | Zone 4_NB tree felling works |
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| | UU_HKT-slew cable for N4 & NF66 CH2320 |
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| | Construct temporary staircase |
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| MRP DWP 1812 | Tim | |
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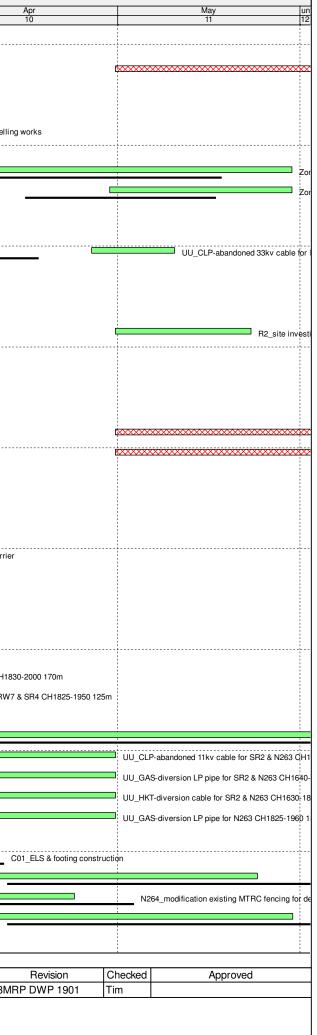
| ID | Activity Name | Original I Duration | Remaining 3MRP St Duration | art 3MRP Finish | DWP (AP3) Start | DWP (AP3) Finish | Jan | Feb | 2019 Mar | |
|------------------|--|------------------------|-------------------------------|-----------------|------------------------|---------------------|---|--|---|---------------|
| ontract | NE/2017/05 Road Widening and | Retrofi | tting Noise F | Barriers or | n Tai Po | Road | 7 | 8 | 9 | - |
| | T KEY DATES | | | | | | | | | |
| DSSESSION | | | | | | | | | | |
| EY1050 | Possession of Portion D | 0 | 0 23-Jan-19 | A | 23-Jan-19 | | 🕏 Possessio | priof Portion D | | |
| | NARIES & GENERAL REQUIREM | IENT | | | | | · | | | |
| | JBMISSION | | | | | | | | | |
| UB1115 | Survey of the Site | 0 | 0 31-Jan-1 | 9* | 30-Nov-18 | | | Survey of the Site | | |
| UB1153 | BIM Team | 0 | 0 31-Jan-1 | 9* | 30-Nov-18 | | | BIM Team | | |
| UB1155 | BIM Execution Plan | 0 | 0 31-Jan-1 | 9* | 30-Nov-18 | | | BIM Execution Plan | | |
| JB1180 | Recording photo | 0 | 0 31-Jan-1 | | 30-Nov-18 | | | Recording photo | | |
| JB1200 | Hoarding Plan | 0 | 0 31-Jan-1 | | 30-Nov-18 | | | Hoarding Plan | | |
| JB1200 | Holding nursery for transplanted trees | 0 | 0 31-Jan-1 | | 30-Nov-18 | | | Holding nursery for transplanted trees | | |
| UB1307 | | 0 | | | | | | | | |
| JB1307 JB1309 | Geotechnical monitoring personnel | 0 | 0 31-Jan-1 | | 30-Nov-18 30-Nov-18 | | | Geotechnical monitoring personnel | | |
| | Geotechnical monitoring proposal | | 0 31-Jan-1 | | | | | Geotechnical monitoring proposal | | |
| JB1343 | TCSS Configuration Management | 0 | 0 31-Jan-1 | | 30-Nov-18 | | | TCSS Configuration Management | | |
| JB1347 | Lift Installation - Design Data | 0 | 0 31-Jan-1 | | 30-Nov-18 | | | Lift Installation - Design Data | | |
| UB1360 | Video Script | 0 | 0 31-Jan-1 | | 14-Jan-19 | | ♦ | Video Script | | |
| UB1403 | ITP's for Lighting Luminaires and System | 0 | 0 31-Jan-1 | 9* | 30-Nov-18 | | | ITP's for Lighting Luminaires and System | | |
| UB1405 | All Lighting Designs | 0 | 0 31-Jan-1 | 9* | 30-Nov-18 | | | All Lighting Designs | | |
| JB1410 | Combined Services Drawings (CSD) | 0 | 0 31-Jan-1 | 9* | 30-Nov-18 | | | Combined Services Drawings (CSD) | | |
| ESIGN | SUBMISSION | | | | | | | | | |
| RCR INTE | RCHANGE MODIFICATION WORKS (Alternative Desig | gn) | | | | | | | | |
| ES1070 | PM Consent for Construction | 28 | 6 06-Nov-18 | A 05-Feb-19 | 20-Jan-19 | 16-Feb-19 | | PM Consent for | Construction | |
| ES1090 | PM review & comment | 28 | 5 07-Dec-1 | A 04-Feb-19 | 05-Dec-18 | 01-Jan-19 | | PM review & comment | | |
| ES1100 | Re-submit Alternative Desing for Modification of Bridge N263 w/Design Certificate | 23 | 23 06-Feb- | 19 28-Feb-19 | 03-Jan-19 | 25-Jan-19 | | | Re-submit Alternative Desing for Modification of I | 3ridge N |
| ES1110 | PM Consent for Construction | 28 | 28 01-Mar- | 19 28-Mar-19 | 26-Jan-19 | 22-Feb-19 | | | PN | Conse |
| ES1120 | Prepare & submit Alternative Design of Bridges SR2 & SR5, Slab Widening of SHA & Widening of Bridge N262 | 21 | 0 30-Nov-18 | A 04-Jan-19A | 01-Dec-18 | 21-Dec-18 | Prepare & submit Alternative Design of Brid | dges SR2 & SR5, Slab Widening of SHA & Wid | ening of Bridge N262 w/Design Cert. | |
| ES1130 | PM review & comment | 28 | 12 05-Jan-19 | A 11-Feb-19 | 25-Dec-18 | 21-Jan-19 | | PM review & comment | | |
| ES1140 | Re-submit Alternative Design of Bridges SR2 & SR5, | 28 | 28 12-Feb- | 19 11-Mar-19 | 22-Jan-19 | 18-Feb-19 | | | Re-submit Alternative Design of | of Bridge |
| ES1150 | Slab Widening of SHA & Widening of Bridge N262 PM Consent for Construction | 28 | 28 12-Mar- | 19 08-Apr-19 | 19-Feb-19 | 18-Mar-19 | | | | + |
| DISE MITIG | ATION MEASURES | | | | | | | | | |
| ES1180 | Re-submit Foundation Design of Noise Mitigation | 22 | 6 24-Nov-1 | A 05-Feb-19 | 25-Dec-18 | 15-Jan-19 | | Re-submit Foundation Design of N | oişe Mitigation Measures in Zones 1 & 2 w/Design C | ertificate |
| ES1190 | Measures in Zones 1 & 2 w/Design Certificate PM Consent for Construction | 28 | 28 06-Feb- | 19 05-Mar-19 | 16-Jan-19 | 12-Feb-19 | | | PM Consent for Construction | |
| ES1230 | PM Consent for Construction | 28 | 14 02-Jan-19 | A 13-Feb-19 | 13-Jan-19 | 09-Feb-19 | | PM Consent for Cons | truction | |
| ES1240 | Prepare & submit Foundation Design of Mitigation | 21 | 5 26-Nov-1 | A 04-Feb-19 | | | | | of Mitigation Measures in Zone 3 w/Design Certifica | ate |
| ES1250 | Measures in Zone 3 w/Design Certificate PM review & comment | 28 | 28 05-Feb- | | | | | | PM review & comment | |
| ES1260 | Re-submit Foundation Design of Noise Mitigation | 23 | 23 06-Mar- | | | | | | | e-submit |
| ES1200 | Measures in Zone 3 w/Design Certificate PM Consent for Construction | 23 | | | | | | | | ່ ouomit ¦ |
| | | | | | | | | | Design of Nation Mittanting March 1 | |
| ES1280 | Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 1 & 2 w/Design | 21 | 3 14-Jan-19 | | | | | Prepare & submit Superstructur | re Design of Noise Mitigation Measures in Zones 1 & | ∠ w/Des |
| ES1290 | PM review & comment | 28 | 28 08-Feb- | | | | | | PM review & comment | |
| ES1300 | Re-submit Superstructure Design of Noise Mitigation Measures in Zone 1 & 2 w/Design Certificate | 20 | 20 09-Mar- | | | | | | - Re | e-submit |
| ES1310 | PM Consent for Construction | 28 | 28 29-Mar- | 19 25-Apr-19 | 01-Mar-19 | 28-Mar-19 | | | | |
| ES1320 | Prepare & submit Superstructure Design of Noise Mitigation Measures in Zone 3 w/Design Certificate | 21 | 21 08-Feb- | 19 28-Feb-19 | 11-Jan-19 | 31-Jan-19 | | | Prepare & submit Superstructure Design of Noise | Mitigat |

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| R5, Slab Widening of SHA | & Widening of I | Bridge N262 w/Design Certificate | |
| M Consent for Construction | ı | | |
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| | | Zone 3 w/Design Certificate | |
| | PM Consent for | CONSTRUCTION | |
| icate | | | |
| | notion #4 | | |
| | PM Consent for | s in Zone 1 & 2 w/Design Certificat | e |
| | | Construction | |
| res in Zone 3 w/Design Ce | | | |
| Revision | Checked | Approved | |
| MRP DWP 1901 | Tim | <u> </u> | |
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| ty ID | Activity Name | Original Duration | Remaining Duration | 3MRP Start | 3MRP Finish | DWP (AP3) Start | DWP (AP3) Finish | Jan | Feb | 2019 Mar | |
|------------|---|----------------------|-----------------------|-------------|---------------|--------------------|---------------------|-----------------------|--|---|-------------------------|
| DES1330 | PM review & comment | Duration 28 | Duration 28 | 01-Mar-19 | 28-Mar-19 | 01-Feb-19 | | 7 | 8 | 9 | / //review & comment |
| DES1340 | Re-submit Superstructure Design of Noise Mitigation | 20 | 20 | 30-Mar-19 | 19-Apr-19 | 02-Mar-19 | | | | | |
| DES1350 | Measures in Zone 3 w/Design Certificate PM Consent for Construction | 28 | 28 | | | 23-Mar-19 | | | | | |
| | | | | 20-Apr-19 | | | | | | | |
| DES1360 | Prepare & submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design | 21 | 21 | 01-Mar-19 | | 01-Feb-19 | | | | Prepare & sub | mit Superstructure |
| DES1370 | PM review & comment | 28 | 28 | 22-Mar-19 | | 22-Feb-19 | | | | | |
| DES1380 | Re-submit Superstructure Design of Noise Mitigation Measures in Zones 4 & 5 w/Design Certificate | 20 | 20 | 20-Apr-19 | 09-May-19 | 23-Mar-19 | 11-Apr-19 | | | | |
| REMAINING | NORKS | | | | | | | | | | |
| DES1420 | Re-submit Foundation Design of Retaining Walls RW1, RW3, RW6 & RW7 w/Design Certificate | , 34 | 0 | 21-Dec-18 A | 10-Jan-19 A | 21-Dec-18 | 23-Jan-19 | Re-submit | Foundation Design of Retaining Walls RW1, F | W3, RW6 & RW7 w/Design Certificate | |
| DES1430 | PM Consent for Construction | 28 | 26 | 11-Jan-19 A | 25-Feb-19 | 24-Jan-19 | 20-Feb-19 | | P | M Consent for Construction | |
| DES1450 | PM review & comment | 28 | 5 | 02-Jan-19 A | 04-Feb-19 | 05-Dec-18 | 01-Jan-19 | | PM review & comment | | |
| DES1460 | Re-submit Foundation Design of Footbridge NF40 & NF66 w/Design Certificate | 35 | 35 | 06-Feb-19 | 12-Mar-19 | 03-Jan-19 | 30-Jan-19 | | | Re-submit Foundation Design | of Footbridge NF4 |
| DES1470 | PM Consent for Construction | 28 | 28 | 13-Mar-19 | 09-Apr-19 | 31-Jan-19 | 27-Feb-19 | | | | P |
| DES1480 | Prepare & submit Foundation Design of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track Ramp & Sign | 21 | 5 | 26-Nov-18 A | 04-Feb-19 | 05-Dec-18 | 25-Dec-18 | | Prepare & submit Foundation Design | of Pedestrian Lift 1 & 2, Lift 2 Staircase, Cycle Track | k Ramp & Sign Gan |
| DES1490 | PM review & comment | 28 | 28 | 05-Feb-19 | 04-Mar-19 | 26-Dec-18 | 22-Jan-19 | | | PM review & comment | |
| DES1500 | Re-submit Foundation Design of Pedestrian Lift 1 & 2, | 35 | 35 | 06-Mar-19 | 09-Apr-19 | 24-Jan-19 | 27-Feb-19 | | | | Re |
| DES1510 | Lift 2 Staircase, Cycle Track Ramp & Sign Gantry PM Consent for Construction | 28 | 28 | 10-Apr-19 | 07-May-19 | 28-Feb-19 | 27-Mar-19 | | | <u> </u> | = |
| DES1530 | PM review & comment | 28 | 10 | 02-Jan-19 A | 09-Feb-19 | 05-Dec-18 | 01-Jan-19 | | PM review & comment | | |
| DES1540 | Re-submit Design of Watermain & Irrigation System | 32 | 32 | 11-Feb-19 | 14-Mar-19 | 03-Jan-19 | 30-Jan-19 | | | Re-submit Design of Wate | main & Irrigation |
| DES1550 | w/Design Certificate PM Consent for Construction | 28 | 28 | 15-Mar-19 | 11-Apr-19 | 31-Jan-19 | 27-Feb-19 | | | , , , , , , , , , , , , , , , , , , , | |
| DES1560 | Prepare & submit Design of E&M System (E&M & Road | 35 | 35 | 31-Jan-19 | 06-Mar-19 | 05-Dec-18 | 08-Jan-19 | | | Prepare & submit Design of E&M System | m (E&M & Road Lio |
| DES1570 | Lighting) w/Design Certificate PM review & comment | 28 | 28 | 07-Mar-19 | 03-Apr-19 | 09-Jan-19 | 05-Feb-19 | _ | | | PM review 8 |
| DES1580 | Re-submit Design of E&M System (E&M & Road | 32 | 32 | | | 07-Feb-19 | | | | | |
| | Lighting) w/Design Certificate | | UL | 00740110 | oo may 10 | 07 1 00 10 | | | | | |
| | TING & PROCUREMENT SCHE | DULE | | | | | | | | | |
| SUBLETTING | | | 00 | | 01 M 40 | 10.5 10 | 10 1 10 | | | | |
| SPS1000 | Maintenance of Traffic Flow | 30 | 30 | 31-Jan-19 | | 18-Dec-18 | | | | Maintenance of Traffic Flow | |
| SPS1010 | Electronic Document Management System (EDMS) for the use of the Project Manager | 30 | | 18-Oct-18 A | | 30-Nov-18 | | | Electronic Document Mar | nagement System (EDMS) for the use of the Project N | Manager |
| SPS1030 | Hoarding and Signboard | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 30-Nov-18 | 29-Dec-18 | | | Hoarding and Signboard | |
| SPS1040 | Survey of the Site | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 18-Dec-18 | 16-Jan-19 | | | Survey of the Site | |
| SPS1060 | Security System of the Site | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 30-Nov-18 | 29-Dec-18 | | | Security System of the Site | |
| SPS1090 | Building Information Model (BIM) | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 30-Nov-18 | 29-Dec-18 | | | Building Information Model (BIM) | |
| SPS1140 | Site Clearance and Demolition Work | 30 | 30 | 02-Mar-19 | 31-Mar-19 | 17-Jan-19 | 15-Feb-19 | | | | Site Clearance a |
| SPS1160 | Monitoring and Instrumentation | 30 | 30 | 01-Apr-19 | 30-Apr-19 | 16-Feb-19 | 17-Mar-19 | | | | |
| SPS1170 | Piling Works and Pile Testing | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 30-Nov-18 | 29-Dec-18 | | | Piling Works and Pile Testing | |
| SPS1200 | Waterwork (Pipework) | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 30-Nov-18 | 29-Dec-18 | | | Waterwork (Pipework) | |
| SPS1210 | Drainage (PC pipe, manhole & gully) and Duct | 30 | 30 | 01-Apr-19 | 30-Apr-19 | 29-Jan-19 | 27-Feb-19 | _ | | | |
| SPS1220 | CCTV for Drainage Pipe | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 30-Nov-18 | 29-Dec-18 | | | CCTV for Drainage Pipe | |
| SPS1240 | Reinforced Concrete Work for Retaining Walls | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 30-Nov-18 | 29-Dec-18 | | | Reinforced Concrete Work for Retaining Walls | |
| SPS1250 | Reinforced Concrete Work for Noise Mitigation | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 18-Dec-18 | 16-Jan-19 | | | Reinforced Concrete Work for Noise Mitigation | Measures |
| SPS1260 | Measures Reinforced Concrete Work for Bridge Work | 30 | 30 | 17-Mar-19 | 16-Apr-19 | 16-Feb-19 | 17-Mar-19 | | | | 1 |
| SPS1290 | Steelwork for NB and Lift Tower | 30 | 30 | 31-Jan-19 | 01-Mar-19 | 11-Jan-19 | 09-Feb-19 | | | Steelwork for NB and Lift Tower | |
| SPS1410 | Pedestrian Lift (Lift Cars, E&M, Panel, Lourve & | 30 | 30 | 01-Feb-19 | 02-Mar-19 | 01-Dec-18 | 30-Dec-18 | | | Pedestrian Lift (Lift Cars, E&M, Panel, Lourve | & Signature) |
| SPS1420 | Signature) Lighting System for Noise Mitigation Measures | 30 | 30 | 01-Feb-19 | 02-Mar-19 | 12-Dec-18 | 10-Jan-19 | | | Lighting System for Noise Mitigation Measure | |
| SPS1440 | Drainage for Noise Mitigation Measures | 30 | 30 | 01-Feb-19 | 02-Mar-19 | 12-Dec-18 | | | | Drainage for Noise Mitigation Measures | |
| SPS1460 | Waterproofing (Bitumen Paint) | 30 | 30 | 28-Feb-19 | 29-Mar-19 | 25-Jan-19 | | | | | Materproofing (Bitu |
| | | | | | | | | | | v | later provinny (DI W |
| | ETWEEN SHING MUN TUNNEL | S ROA | D AND | FOOT B | RIDGE N | IF71A (Z | 20NE 1) | | | | |
| NORK B | | | | | | | | | | | |
| | IES WORKS | | | | | | | | | | |
| PRELIMINAR | IES WORKS naining Level of Effort Actual Wo | ork | \$ | ♦ Ba | seline Milest | one | ROAD W | IDENING & RETROFITTIN | G NOISE BARRIERS ON TAI | PO ROAD (SHA TIN SECTION) | Date |
| PRELIMINAR | | | ♦ | | seline Milest | one | ROAD W | | G NOISE BARRIERS ON TAI s Rolling Programme (31/01) | | Date 09-Feb-193I |

| Anr | 1 | May | lun |
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| Apr 10 | | 11 | un 12 |
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| Po submit S | uporetructuro | Design of Noise Mitigation Measures in | Zono |
| ne-subilit s | | Design of Noise Mitigation Measures in | Zone |
| | | PM Consent for Cor | nstruc |
| Design of Noise Mitigation I | Measures in 7 | ones 4 & 5 w/Design Certificate | |
| | | Shed 4 d 6 W/Design Continuate | |
| PM review & c | omment | | |
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| -submit Foundation Design | of Pedestriar | n Lift 1 & 2, Lift 2 Staircase, Cycle Track | ; Bam |
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| | | PM Consent for Construction | |
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| ystem w/Design Certificate | | | |
| PM Consent for Construct | ion | | |
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| tivity ID | Activity Name | Original | Remaining | 3MRP Start | 3MRP Finish | DWP (AP3) | DWP (AP3) | | | | | 2019 | |
|---------------|--|------------|--------------|--------------|---------------|------------|-----------|------------------------|---------------|---------------------------|-----------------------|-------------------|------------------------|
| | | Duration | Duration | | | Start | Finish | Jan 7 | Fe | eb B | Mar 9 | | |
| TEMPORARY | TRAFFIC ARRAGEMENT | | | | | | | | | | | | |
| TTA PERIOD |) | | | | | | | | | | | | |
| Z1_1410 | Construction Zone 1_Stage 1 Southbound structure | 260 | 260 | 30-Apr-19 | 13-Mar-20 | 27-Feb-19 | 29-Jan-20 | | | | | | |
| PREPARATO | RYWORKS | | | | | | | | | | | | |
| TREE FELLI | NG/TRANPLANT | | | | | | | | | | | | |
| Z1_1290 | Zone 1_tree felling works | 18 | 16 | 25-Jan-19 A | 01-Apr-19 | 22-Jan-19 | 15-Feb-19 | | | _ | | | Zone 1_tree felli |
| MODIFICATI | ON EXISTING ROAD/TEMPORARY ROAD | | | | | | | | | | | | |
| Z1_1270 | Zone 1-1_construct temporary road platform along | 45 | 45 | 01-Apr-19 | 30-May-19 | 15-Feb-19 | 18-May-19 | | | | | | |
| Z1 1280 | Northbound Zone 1-1_remove existing central barrier | 21 | 21 | 29-Apr-19 | 30-May-19 | 15-Apr-19 | 17-May-19 | | | | | | |
| | | | | | | | | | | | | | |
| NORTHBOU | | | | | | | | | | | | | |
| | | 11 | 11 | 00 Apr 10 | 10 May 10 | 02 Apr 10 | 17 Apr 10 | | | | | | |
| Z1_1330 | UU_CLP-abandoned 33kv cable for R1 & R2 CH1075 30m | 11 | 11 | 26-Apr-19 | 10-May-19 | 03-Apr-19 | 17-Apr-19 | | | | | | |
| | IER AND SEMFENCLOSURE | | | | | | | | | | | | |
| | ATION WORKS | | | | | | | | | | | | |
| SOUTHBOU | ND | | | | | | | | | | | | |
| Z1_1050 | R2_site investigation for R2-02P & 06P (7nr) | 18 | 18 | 30-Apr-19 | 23-May-19 | 27-Feb-19 | 20-Mar-19 | | | | | | |
| NORK B | ETWEEN CITYLINE PLAZA ANI | D FOOT | BRIDG | ENF40 | (ZONE 3 | 3) | | | | | | | |
| PRELIMINAR | IES WORKS | | | | | | | | | | | | |
| TEMPORARY | TRAFFIC ARRAGEMENT | | | | | | | | | | | | |
| TTA PERIOD |) | | | | | | | | | | | | |
| Z3_3270 | Construction period of Zone 3a_1 | 354 | 354 | 30-Apr-19 | 10-Jul-20 | 27-Feb-19 | 31-Mar-20 | | | | | | |
| Z3_3400 | Construction period of Zone 3b_1 | 401 | 401 | 30-Apr-19 | 03-Sep-20 | 18-Mar-19 | 29-May-20 | | | | | | |
| PREPARATO | RYWORKS | | | | | | | | | | | | |
| | NG/TRANPLANT | | | | | | | | | | | | |
| Z3_2800 | Zone 3_tree felling works | 18 | 11 | 22-Jan-19 A | 15-Feb-19 | 20-Dec-18 | 12-Jan-19 | | | Zone 3 tree felling works | | | |
| | ON EXISTING ROAD/TEMPORARY ROAD | 10 | | EE Guil 1071 | | 20 200 10 | 12 041110 | | | Zone o_tree terming works | | | |
| | | 01 | 01 | 15 Eab 10 | 18-Mar-19 | 14 lag 10 | 14 Eab 10 | | | | | | |
| Z3_2810 | Zone 3-1_remove existing central barrier | 21 | 21 | 15-Feb-19 | 10-11141-19 | 14-Jan-19 | 14-Feb-19 | | | | | Zone 3-1_remove e | existing central barri |
| | | | | | | | | | | | | | |
| PRELIMINARI | | | | | | | | | | | | | |
| UTILITIES DI | | | | | | | | | | | | | |
| NORTHBOU | | | | | | | | | | | | | |
| Z3_2910 | UU_CLP-abandoned 11kv cable for RW6 CH1675-172 50m | 25 13 | 13 | 01-Feb-19 | 20-Feb-19 | 07-Jan-19 | 22-Jan-19 | | | UU_CLP-abandon | ed 11kv cable for RW6 | 6 CH1675-1725 50m | |
| Z3_2920 | UU_HKT-diversion cable for RW7 CH1830-2000 170m | n 34 | 34 | 02-Feb-19 | 18-Mar-19 | 08-Jan-19 | 20-Feb-19 | | | | | UU_HKT-diversion | cable for RW7 CH1 |
| Z3_2930 | UU_CLP-abandoned 11kv cable for RW7 & SR4 CH1825-1950 125m | 22 | 22 | 20-Feb-19 | 18-Mar-19 | 22-Jan-19 | 20-Feb-19 | | | | | UU_CLP-abandone | d 11kv cable for RW |
| SOUTHBOU | | | | | | | | | | | | | |
| Z3_2970 | UU_HKT-new cable for RW1 & SR3 CH1450-2300 | 127 | 127 | 08-Feb-19 | 16-Jul-19 | 08-Feb-19 | 16-Jul-19 | | | : : : | | | 1 |
| Z3_3050 | 850m UU_CLP-abandoned 11kv cable for SR2 & N263 | 35 | 35 | 15-Mar-19 | 30-Apr-19 | 14-Jan-19 | 27-Feb-19 | | | | | | |
| Z3_3060 | CH1710-1950 240m UU_GAS-diversion LP pipe for SR2 & N263 | 51 | 51 | 25-Feb-19 | 30-Apr-19 | 22-Dec-18 | 27-Feb-19 | | | | | | |
| Z3_3070 | CH1640-1850 210m UU HKT-diversion cable for SR2 & N263 CH1630-184 | 40 39 | 39 | 11-Mar-19 | 30-Apr-19 | 09-Jan-19 | 27-Feb-19 | | | | | | |
| Z3_3110 | 210m UU_GAS-diversion LP pipe for N263 CH1825-1960 | 38 | | | 30-Apr-19 | | | | | | | | |
| | 135m DR NORTH HOLLOW ABUTMENT (N264) | | | | 007.0 | 10 0411 10 | 27.100.10 | | | | | | |
| | | 45 | 45 | 00 E-h 40 | 01 Am 10 | 40 E-h 40 | 41 4 | | | | | | |
| Z3_4200 | C01_ELS & footing construction | 45 | | | 01-Apr-19 | | | | | | | | |
| Z3_4210 | C01_cloumn construction | 40 | | | | | | | | | | | |
| Z3_4220 | N264_modification existing MTRC fencing for deck widening | 60 | | | 23-Apr-19 | | | | | | | | |
| Z3_4240 | N264_temporary protection MTRC cable | 45 | 45 | 02-Apr-19 | 30-May-19 | 12-Apr-19 | 10-Jun-19 | | | | | | |
| MODIFICATIO | DN OF BRIDGE N263 | | | | | | | | | | | | |
| | | | | | | | | | | ı | | | 1 |
| Rer | maining Level of Effort Actual W | ork | | ♦ Ba | seline Milest | one | ROAD W | /IDENING & RETROFITTIN | IG NOISE BARR | IERS ON TAI PO I | ROAD (SHA T | N SECTION) | Date |
| Actu | ual Level of Effort Remainin | ng Work | • | ♦ Mile | estone | | | | | amme (31/01/19) | | | 09-Feb-193N |
| Prin | mary Baseline Critical R | emaining \ | Work | | | | | | Page 3 of | | | | |
| | | | | | | | | | - | | | | |



| Activity ID | Activity Name | Original Duration | Remaining 3MRP Start Duration | 3MRP Finish DWP (A | P3) DWP (AP3) tart Finish | Jan | Feb | 2019 Mar | Apr | May un |
|---------------|--|----------------------|----------------------------------|--------------------|------------------------------|--------|----------------------------|------------------------------|------------------------|--|
| MODIFICATI | ON EXISTING PIER WALL OF N263 | | | | | 7 | 8 | 9 | 10 | 11 12 |
| | | | | | | | | | | <u> </u> |
| Z3_3870 | SAW-1_piling works for new NHA wall 3nr 1.5r pile | m bored 42 | 42 30-Apr-19 | 21-Jun-19 27-Feb | -19 18-Apr-19 | | | - | | |
| MODIFICATI | ON EXISTING SOUTH HOLLOW ABUTMENT W | ALL | | | | | | | | |
| Z3_3950 | SHA_piling works for pier SHA6 nos. Socket H | H-pile 48 | 48 30-Apr-19 | 28-Jun-19 18-Mar | -19 20-May-19 | | | | | · · · · · · · · · · · · · · · · · · · |
| RETAINING W | ALL & SUBWAY | | | | | | | | | |
| | | | | | | | | | | |
| RETAINING | | | | | | | | | | |
| Z3_4390 | RW6_ELS works for Bay 601 to Bay 608 (62m_ | _2 side) 35 | 35 18-Mar-19 | 03-May-19 15-Feb | -19 27-Mar-19 | | | | | RW6_ELS works for Bay 601 to Bay 608 (62m_2 |
| RETAINING | WALL NO.7 | | | | | | | | | |
| Z3_4510 | RW7_ELS works for Bay 701 to Bay 705 (75m_ | _2 side) 42 | 42 18-Mar-19 | 11-May-19 20-Feb | -19 11-Apr-19 | | | | 1 1 | RW7_ELS works for Bay 701 to Ba |
| | | | | | | | | | | |
| | ETWEEN FOOTBRIDGE NF | | 100 (ZONE 4) | | | | | | | |
| PRELIMINAR | | | | | | | | | | |
| TEMPORARY | TRAFFIC ARRAGEMENT | | | | | | | | | |
| TTA PERIOD | | | | | | | | | | |
| Z4_1470 | Construction Zone 4_NF66 Construction | 243 | 243 30-Apr-19 | 22-Feb-20 27-Feb | 19 20-Dec-19 | | | | | *************************************** |
| Z4_1480 | Construction Zone 4_NF40 Construction | 489 | 489 31-Jan-19 | 24-Sep-20 23-Jan | -19 16-Sep-20 | | | ***** | | ***** |
| | | | | | | | | | | |
| PREPARATOR | | | | | | | | | | |
| TREE FELLII | NG/TRANPLANT | | | | | | | | | |
| Z4_1320 | Zone 4_NB tree felling works | 18 | 17 25-Jan-19 A | 24-Apr-19 28-Jan | -19 21-Feb-19 | - | - | - | Zone 4_ | NB tree felling works |
| UTILITIES DIV | ERSION | | | | | | | | | |
| NORTHBOU | ND | | | | | | | | | |
| | UU_HKT-slew cable for N4 & NF66 CH2320-23 | 360 40m 5 | 5 24-Apr-19 | 30-Apr-19 21-Feb | -19 27-Feb-19 | | | | | |
| Z4_1300 | | 300 4011 3 | 5 24-Api-19 | 30-Api-19 21-1 eb | 27-160-13 | | | - | | UU_HKT-slew cable for N4 & NF66 CH2320-2360 40 |
| BRIDGE AND | STRUCTURE WORKS | | | | | | | | | |
| MODIFICATIO | N WORKS FOR NF40 | | | | | | | | | |
| NF40_1000 | Construct temporary staircase | 60 | 60 31-Jan-19 | 15-Apr-19 23-Jan | -19 05-Apr-19 | | | | Construct temporary st | taircase |
| NF40 1010 | Demolish existing staircase & part of existing f | footing 45 | 45 16-Apr-19 | 13-Jun-19 08-Apr | -19 04-Jun-19 | | | | | |
| | N WORKS FOR NF66 | Ũ | · | · | | | | | | |
| | | | | | | | | | | <u> </u> |
| NF66_1000 | Piling for NF66 new support 12nr mini pile | 48 | 48 30-Apr-19 | 28-Jun-19 27-Feb | -19 29-Apr-19 | | | | | |
| WORK B | ETWEEN FOOTBRIDGE NE | F66 AND FC | TAN ROAD (ZO | ONE 5) | | | | | | |
| PRELIMINAR | ES WORKS | | | | | | | | | |
| PREPARATOR | RY WORKS | | | | | | | | | |
| TREE FELLU | NG/TRANPLANT | | | | | | | | | |
| | | 10 | 17 00 lon 10 A | 10 Eab 00 17 Oat | 10 07 Nev 10 | | | | | |
| Z5_1710 | Zone 5_tree felling works | 18 | 17 22-Jan-19 A | 13-Feb-20 17-Oct | -19 07-Nov-19 | | | | | |
| PORTION | NE (ZONE 5) | | | | | | | | | |
| PRELIMINAR | ES WORKS | | | | | | | | | |
| PREPARATOR | RY WORKS | | | | | | | | | |
| TREE FELLI | NG/TRANPLANT | | | | | | | | | |
| Z5E 1140 | Portion E_tree felling works | 30 | 28 22-Jan-19 A | 15-Sep-20 09-May | -20 13-Jun-20 | | | | | |
| 202_1110 | | | 20 22 04.1 107.1 | | | | | | 1 | <u> </u> |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| | naining Level of Effort Act | ual Work | ♦ ♦ Bas | seline Milestone | | | | | Date Revision C | hecked Approved |
| | • | | | | | | | AI PO ROAD (SHA TIN SECTION) | | im |
| | | maining Work | ◆ ◆ Mile | SUNC | | 3 Mont | hs Rolling Programme (31/0 | 11/19) | | |
| - Prin | nary Baseline Crit | tical Remaining | VV OFK | | | | Page 4 of 4 | | | |

| Remaining Level of Effort | Actual Work | \diamond | ♦ Baseline Milestone | ROAD WIDENING & RETROFITTING NOISE BARRIERS ON TAI PO ROAD (SHA TIN SECTION) | | | | |
|--|----------------|------------|----------------------|--|-----------|------|--|--|
| Actual Level of Effort | Remaining Work | • | ♦ Milestone | 3 Months Rolling Programme (31/01/19) | 09-Feb-19 |) 3N | | |
| | 8 | • , | | | | | | |
| Primary Baseline Critical Remaining Work | | | | Page 4 of 4 | | | | |
| | | | | | | | | |

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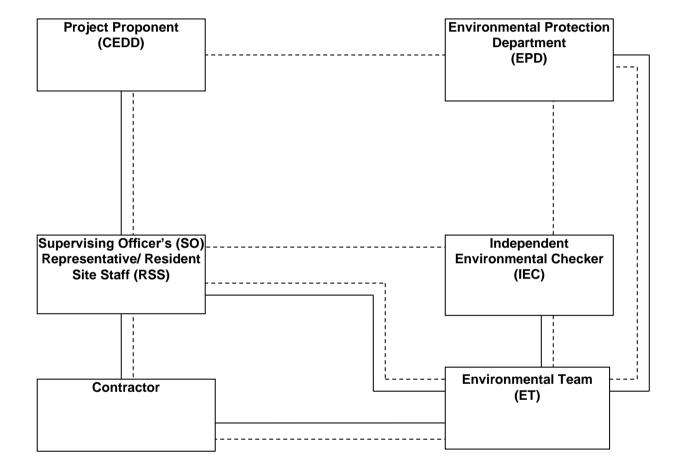


Appendix B

Project Organization Chart

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| Legen | Legend: | | | | | | | |
|-------|-----------------------|--|--|--|--|--|--|--|
| | Line of Reporting | | | | | | | |
| | Line of Communication | | | | | | | |

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Appendix C

Action and Limit Levels for Air Quality and Noise

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| Parameter | Monitoring Station | Action Level (μg/m³) | Limit Level (µg/ m ³) | | | |
|-----------|--------------------|-------------------------|--------------------------------------|--|--|--|
| | AMS 1 | 171 | | | | |
| | AMS 2 | 166 | | | | |
| | AMS 3A | 200 | | | | |
| | AMS 4A | 200 | | | | |
| 24-hr TSP | AMS 7A | 171 | 260 | | | |
| (µg/m³) | AMS 9 | 159 | 200 | | | |
| | AMS 12 | 168 | | | | |
| | AMS 13 | 174 | | | | |
| | AMS 14 | 174 | | | | |
| | AMS 15 | 172 | | | | |
| | AMS 1 | 350 | | | | |
| | AMS 2 | 324 | | | | |
| | AMS 3A | 350 | | | | |
| | AMS 4A | 348 | | | | |
| 1-hr TSP | AMS 7A | 344 | 500 | | | |
| (µg/m³) | AMS 9 | 327 | - 500 | | | |
| | AMS 12 | 296 |] | | | |
| - | AMS 13 | 303 |] | | | |
| | AMS 14 | 350 |] | | | |
| - | AMS 15 | 350 | | | | |

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

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

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

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

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Appendix D

Graphical Presentation of Monitoring Data

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

AMS 1 Scenery Court

| | | | 1- | nour TSP (µg/i | nº) | | | |
|-----------|------------|--------|--------|----------------|---------|--------------|-------------|---------|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather |
| 03-Jan-19 | 12:00 | 70 | 66 | 66 | 67 | | | Cloudy |
| 09-Jan-19 | 08:30 | 46 | 50 | 50 | 49 | | | Fine |
| 15-Jan-19 | 10:00 | 48 | 50 | 52 | 50 | 350 | 500 | Cloudy |
| 21-Jan-19 | 13:36 | 63 | 78 | 69 | 70 | 350 | 500 | Fine |
| 25-Jan-19 | 14:20 | 62 | 64 | 73 | 66 | | | Fine |
| 31-Jan-19 | 08:30 | 29 | 31 | 33 | 31 | | | Fine |
| | Average | | 56 | | | | | |
| | Max | | 78 | | | | | |
| | Min | | 29 | | | | | |

...

AMS 2 Villa Le Parc

| | | | 1-1 | hour TSP (µg/ | m³) | | | |
|-----------|------------|--------|--------|---------------|---------|--------------|-------------|---------|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather |
| 04-Dec-18 | 13:09 | 18 | 12 | 11 | 14 | | | Sunny |
| 10-Dec-18 | 15:13 | 41 | 44 | 44 | 43 | | | Fine |
| 14-Dec-18 | 15:56 | 99 | 99 | 130 | 109 | | | Fine |
| 20-Dec-18 | 15:00 | 62 | 62 | 60 | 61 | | | Fine |
| 24-Dec-18 | 09:00 | 65 | 63 | 63 | 64 | | | Fine |
| 28-Dec-18 | 13:15 | 60 | 60 | 58 | 59 | 324 | 500 | Fine |
| 04-Feb-19 | 10:40 | 48 | 46 | 45 | 46 | - | | Fine |
| 08-Feb-19 | 10:56 | 45 | 45 | 42 | 44 | | | Fine |
| 14-Feb-19 | 10:57 | 45 | 40 | 38 | 41 | | | Fine |
| 20-Feb-19 | 11:13 | 24 | 20 | 16 | 20 | | | Fine |
| 26-Feb-19 | 10:00 | 26 | 24 | 20 | 23 | | | Sunny |
| | Average | | 48 | | | | | |
| | Max | | 130 | | | | | |
| | Min | | 11 | | | | | |

AMS 3A Wai Wah Centre

| | | | 1- | hour TSP (µg/ | m³) | | | |
|-----------|------------|--------|--------|---------------|---------|--------------|-------------|---------|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather |
| 04-Dec-18 | 15:42 | 39 | 48 | 45 | 44 | | | Fine |
| 10-Dec-18 | 15:12 | 57 | 61 | 68 | 62 | | | Fine |
| 14-Dec-18 | 15:45 | 91 | 91 | 132 | 105 | | | Fine |
| 20-Dec-18 | 14:30 | 91 | 86 | 86 | 88 | | | Fine |
| 24-Dec-18 | 14:25 | 55 | 48 | 46 | 50 | | 500 | Fine |
| 28-Dec-18 | 15:41 | 75 | 77 | 77 | 76 | 350 | | Fine |
| 04-Feb-19 | 15:15 | 42 | 54 | 67 | 54 | | | Fine |
| 08-Feb-19 | 15:53 | 66 | 72 | 72 | 70 | | | Fine |
| 14-Feb-19 | 11:28 | 56 | 42 | 46 | 48 | | | Fine |
| 20-Feb-19 | 10:52 | 82 | 78 | 71 | 77 | | | Fine |
| 26-Feb-19 | 15:00 | 59 | 64 | 70 | 64 | | | Sunny |
| | Average | | 67 | | | | | |
| | Max | | 132 | |] | | | |
| | Min | | 39 | | 1 | | | |

AMS 4A Wai Wah Centre

| | 1-hour TSP (µg/m³) | | | | | | | | | | | |
|-----------|--------------------|--------|--------|--------|---------|--------------|-------------|---------|--|--|--|--|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather | | | | |
| 03-Jan-19 | 12:30 | 78 | 78 | 74 | 77 | | | Cloudy | | | | |
| 09-Jan-19 | 10:00 | 128 | 108 | 108 | 115 | | | Fine | | | | |
| 15-Jan-19 | 15:00 | 71 | 69 | 68 | 69 | 348 | 500 | Cloudy | | | | |
| 21-Jan-19 | 15:00 | 79 | 81 | 100 | 87 | 040 | | Fine | | | | |
| 25-Jan-19 | 10:00 | 69 | 59 | 45 | 58 | | | Fine | | | | |
| 31-Jan-19 | 15:20 | 64 | 73 | 82 | 73 | | | Fine | | | | |
| | Average | | 80 | | | | | | | | | |
| | Max 128 | | | | | | | | | | | |
| | Min | | 45 | | | | | | | | | |

AMS 7A Sheung Wo Che

| | 1-hour TSP (µg/m³) | | | | | | | | | | | |
|-----------|--------------------|--------|--------|--------|---------|--------------|-------------|---------|--|--|--|--|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather | | | | |
| 04-Dec-18 | 15:49 | 17 | 20 | 21 | 19 | | | Sunny | | | | |
| 10-Dec-18 | 10:24 | 44 | 33 | 39 | 39 | | | Fine | | | | |
| 14-Dec-18 | 15:56 | 96 | 106 | 106 | 103 | 344 | 500 | Fine | | | | |
| 20-Dec-18 | 09:30 | 95 | 96 | 95 | 95 | 344 | 500 | Fine | | | | |
| 24-Dec-18 | 14:08 | 42 | 52 | 48 | 47 | | | Fine | | | | |
| 28-Dec-18 | 09:00 | 67 | 62 | 60 | 63 | | | Fine | | | | |
| | Average | | 61 | | | | | | | | | |
| | Max 106 | | | | | | | | | | | |
| | Min | | 17 | | | | | | | | | |

Remark

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

AMS 9 Shatin Tsung Tsin School

| | 1-hour TSP (µg/m³) | | | | | | | | | | | |
|-----------|--------------------|-------------|--------|--------|---------|--------------|-------------|---------|--|--|--|--|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather | | | | |
| 04-Dec-18 | 10:50 | 28 | 24 | 26 | 26 | | | Sunny | | | | |
| 10-Dec-18 | 10:00 | 27 | 27 | 29 | 28 | | 500 | Fine | | | | |
| 14-Dec-18 | 15:45 | 89 | 98 | 98 | 95 | 327 | | Fine | | | | |
| 20-Dec-18 | 10:00 | 60 | 64 | 64 | 62 | 521 | | Fine | | | | |
| 24-Dec-18 | 13:45 | 33 | 41 | 43 | 39 | | | Fine | | | | |
| 28-Dec-18 | 10:00 | 57 | 63 | 65 | 62 | | | Fine | | | | |
| | Average | | 52 | | | | | | | | | |
| | Max | x 98 | | | | | | | | | | |
| | Min | | 24 | | | | | | | | | |

AMS 12 Fung Wo Estate

| | 1-hour TSP (μg/m³) | | | | | | | | | | | |
|-----------|--------------------|--------|--------|--------|---------|--------------|-------------|---------|--|--|--|--|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather | | | | |
| 03-Jan-19 | 14:00 | 79 | 77 | 76 | 77 | | | Cloudy | | | | |
| 09-Jan-19 | 15:00 | 81 | 69 | 67 | 72 | | 296 500 | Fine | | | | |
| 15-Jan-19 | 15:30 | 67 | 69 | 71 | 69 | 296 | | Cloudy | | | | |
| 21-Jan-19 | 14:00 | 98 | 83 | 83 | 88 | 200 | | Fine | | | | |
| 25-Jan-19 | 12:17 | 49 | 33 | 27 | 36 | | | Fine | | | | |
| 31-Jan-19 | 12:30 | 68 | 66 | 69 | 68 | | | Fine | | | | |
| | Average | | 68 | | | | | | | | | |
| | Max | | 98 | | | | | | | | | |
| | Min | | 27 | | | | | | | | | |

AMS13 - Fung Wo Estate

| | 1-hour TSP (μg/m³) | | | | | | | | | | | |
|-----------|--------------------|--------|--------|--------|---------|--------------|-------------|---------|--|--|--|--|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather | | | | |
| 04-Feb-19 | 15:40 | 46 | 48 | 56 | 50 | | | Fine | | | | |
| 08-Feb-19 | 13:11 | 57 | 56 | 55 | 56 | | | Fine | | | | |
| 14-Feb-19 | 15:14 | 54 | 58 | 62 | 58 | 303 | 500 | Fine | | | | |
| 20-Feb-19 | 11:52 | 41 | 26 | 23 | 30 | | | Fine | | | | |
| 26-Feb-19 | 15:17 | 64 | 65 | 73 | 67 | | | Sunny | | | | |
| | Average | | 52 | | | | | | | | | |
| | Max | | 73 | | | | | | | | | |
| | Min | | 23 | | | | | | | | | |

AMS 14 - Ha Wo Che

| | 1-hour TSP (µg/m³) | | | | | | | | | | | |
|-----------|--------------------|--------|--------|--------|---------|--------------|-------------|---------|--|--|--|--|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather | | | | |
| 04-Feb-19 | 08:45 | 67 | 71 | 67 | 69 | | | Fine | | | | |
| 08-Feb-19 | 09:30 | 90 | 71 | 96 | 86 | | | Fine | | | | |
| 14-Feb-19 | 10:00 | 35 | 26 | 39 | 34 | 350 | 500 | Fine | | | | |
| 20-Feb-19 | 10:00 | 43 | 44 | 52 | 46 | | | Fine | | | | |
| 26-Feb-19 | 14:00 | 57 | 69 | 72 | 66 | | | Sunny | | | | |
| | Average | | 60 | | | | | | | | | |
| | Max | | 96 | | | | | | | | | |
| | Min | | 26 | | | | | | | | | |

AMS 15 Ha Wo Che

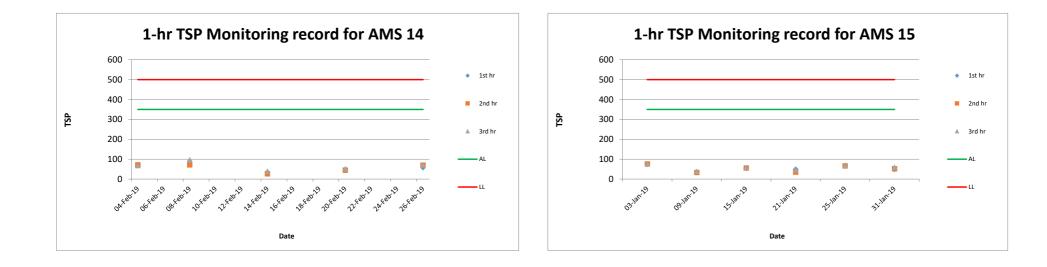
| | | | 1-h | our TSP (µg/n | n³) | | | |
|-----------|------------|--------|--------|---------------|---------|--------------|-------------|---------|
| Date | Start Time | 1st hr | 2nd hr | 3rd hr | Average | Action Level | Limit Level | Weather |
| 03-Jan-19 | 09:00 | 74 | 76 | 76 | 75 | | | Cloudy |
| 09-Jan-19 | 14:00 | 33 | 33 | 39 | 35 | | | Fine |
| 15-Jan-19 | 10:15 | 53 | 55 | 57 | 55 | 350 | 500 | Cloudy |
| 21-Jan-19 | 09:30 | 50 | 35 | 46 | 44 | 350 | 500 | Fine |
| 25-Jan-19 | 12:30 | 68 | 66 | 69 | 68 | | | Fine |
| 31-Jan-19 | 09:00 | 48 | 52 | 59 | 53 | | | Fine |
| | Average | | 55 | | | | | |
| | Max | | 76 | | | | | |
| | Min | | 33 | | | | | |

Remark

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







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

| Start Date | | Air Temperature | Atmospheric Pressure, Pa | Filter W | eight (g) | Particulate | | /m°/r | | Average flow | Total volume | Conc. | Action Level | Limit Level |
|------------|-----------|-----------------|-----------------------------|----------|-----------|-------------|-----------|---------|-------|------------------------|-------------------|----------------------|-----------------|----------------|
| olan Dalo | Condition | (K) | (mmHg) | Initial | Final | weight (g) | Time(hrs) | Initial | Final | (m ³ /min.) | (m ³) | (ug/m ³) | - | (ug/m^3) |
| 4-Dec-18 | Sunny | 298.0 | 762 | 2.7606 | 2.8835 | 0.1229 | 24 | 1.72 | 1.72 | 1.72 | 2479.11 | 50 | | |
| 10-Dec-18 | Fine | 290.2 | 765 | 2.7907 | 2.8715 | 0.0808 | 24 | 1.67 | 1.64 | 1.65 | 2378.54 | 34 | | |
| 14-Dec-18 | Fine | 290.0 | 769 | 2.7666 | 2.8318 | 0.0652 | 24 | 1.84 | 1.80 | 1.82 | 2621.65 | 25 | 171 | 260 |
| 20-Dec-18 | Fine | 294.8 | 762 | 2.7083 | 2.9605 | 0.2522 | 24 | 2.27 | 2.26 | 2.26 | 3259.30 | 77 | 171 | 200 |
| 24-Dec-18 | Fine | 291.2 | 763 | 2.7659 | 2.8431 | 0.0772 | 24 | 1.66 | 1.64 | 1.65 | 2375.17 | 33 | | |
| 28-Dec-18 | Fine | 291.3 | 766 | 2.6708 | 2.7859 | 0.1151 | 24 | 1.91 | 1.88 | 1.90 | 2735.74 | 42 | | |
| | | | | | | | | | | | Min | 25 | | |
| | | | | | | | | | | | Max | 77 |] | |
| | | | | | | | | | | | Average | 43 |] | |

AMS 7A - Sheung Wo Che

AMS 9 - Shatin Tsung Tsin School

| Start Date | Weather | Air Temperature | Atmospheric Pressure, Pa | Filter W | eight (g) | Particulate | | /m°/r | | Average flow | Total volume | | Action Level | Limit Level |
|------------|-----------|-----------------|-----------------------------|----------|-----------|-------------|-------------|---------|--------|------------------------|--------------|----------------------|----------------------|----------------------|
| | Condition | (K) | (mmHg) | Initial | Final | weight (g) | Time(fills) | Initial | Final | (m ³ /min.) | (m³) | (ug/m ³) | (ug/m ³) | (ug/m ³) |
| 4-Dec-18 | Sunny | 298.0 | 762 | 2.7829 | 2.8963 | 0.1134 | 24 | 1.8053 | 1.8027 | 1.80 | 2597.7173 | 44 | | |
| 10-Dec-18 | Fine | 290.2 | 765 | 2.7939 | 2.8529 | 0.0590 | 24 | 1.5818 | 1.5557 | 1.57 | 2259.0256 | 26 | | |
| 14-Dec-18 | Fine | 290.0 | 769 | 2.7667 | 2.8565 | 0.0898 | 24 | 1.6706 | 1.6381 | 1.65 | 2382.2571 | 38 | 159 | 260 |
| 20-Dec-18 | Fine | 294.8 | 762 | 2.7405 | 2.8057 | 0.0652 | 24 | 1.6498 | 1.6381 | 1.64 | 2367.2191 | 28 | 159 | 200 |
| 24-Dec-18 | Fine | 291.2 | 763 | 2.7730 | 2.8267 | 0.0537 | 24 | 1.6608 | 1.6381 | 1.65 | 2375.1668 | 23 | | |
| 28-Dec-18 | Fine | 291.3 | 766 | 2.6010 | 2.6724 | 0.0714 | 24 | 1.9147 | 1.8850 | 1.90 | 2735.7366 | 26 | | |
| | | | | | | | | | | | Min | 23 | | |
| | | | | | | | | | | | Max | 44 | | |
| | | | | | | | | | | | Average | 31 |] | |

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.

| Start Date | | Air Temperature | Atmospheric Pressure, Pa | Filter W | eight (g) | Particulate | | /m°/r | | Average flow | Total volume | 0 | Action Level | Limit Level |
|------------|-----------|-----------------|-----------------------------|----------|-----------|-------------|-----------|---------|-------|------------------------|--------------|---------|-----------------|----------------------|
| | Condition | (K) | (mmHg) | Initial | Final | weight (g) | Time(hrs) | Initial | Final | (m ³ /min.) | (m³) | (ug/m³) | (ug/m^3) | (ug/m ³) |
| 3-Jan-19 | Cloudy | 289.4 | 768 | 2.7444 | 2.8290 | 0.0846 | 24 | 1.76 | 1.72 | 1.74 | 2502.65 | 34 | | |
| 9-Jan-19 | Fine | 291.0 | 767 | 2.7221 | 2.8049 | 0.0828 | 24 | 1.92 | 1.88 | 1.90 | 2736.92 | 30 | | |
| 15-Jan-19 | Cloudy | 292.2 | 764 | 2.7175 | 2.7662 | 0.0487 | 24 | 1.91 | 1.88 | 1.90 | 2731.71 | 18 | 171 | 260 |
| 21-Jan-19 | Fine | 291.0 | 766 | 2.7478 | 2.8647 | 0.1169 | 24 | 1.75 | 1.72 | 1.73 | 2497.61 | 47 | 171 | 200 |
| 25-Jan-19 | Fine | 291.9 | 766 | 2.6685 | 2.7157 | 0.0472 | 24 | 1.66 | 1.64 | 1.65 | 2375.91 | 20 | | |
| 31-Jan-19 | Fine | 294.9 | 764 | 2.7698 | 2.8927 | 0.1229 | 24 | 1.86 | 1.84 | 1.85 | 2665.94 | 46 | | |
| | | | | | | | | | | | Min | 18 | | |
| | | | | | | | | | | | Max | 47 | | |
| | | | | | | | | | | | Average | 32 | 1 | |

AMS 1 - Scenery Court

AMS 15 - Ha Wo Che

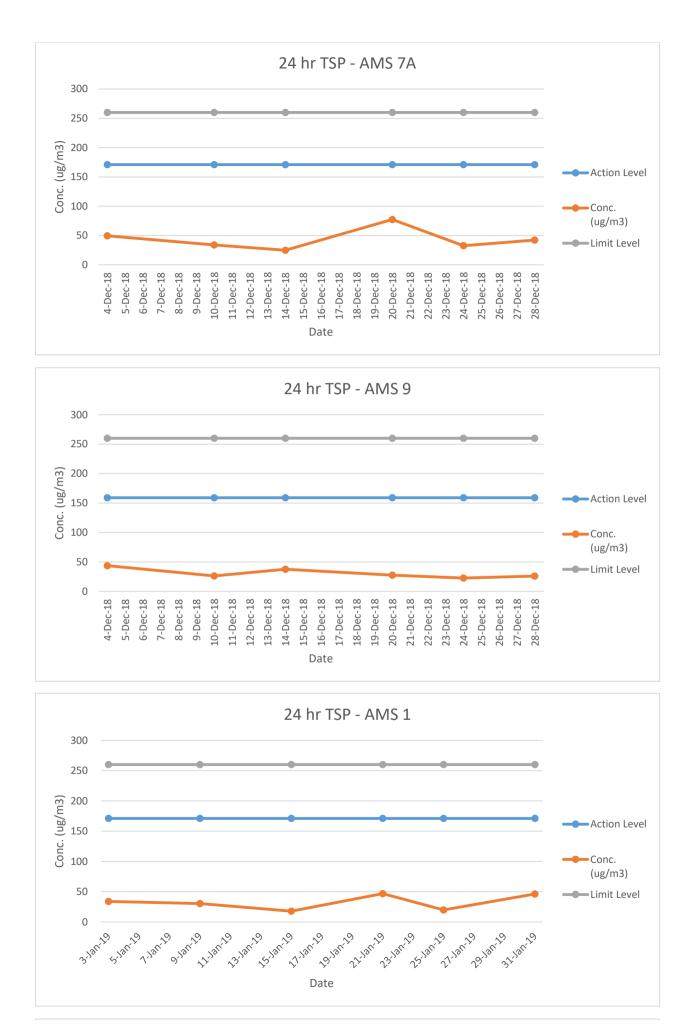
| Start Date | Weather | Air Temperature | Atmospheric Pressure, Pa | Filter W | eight (g) | Particulate | | /m°/r | | Average flow | Total volume | - | Action Level | Limit Level |
|------------|-----------|-----------------|-----------------------------|----------|-----------|-------------|-----------|---------|--------|------------------------|--------------|----------------------|----------------------|----------------------|
| | Condition | (K) | (mmHg) | Initial | Final | weight (g) | Time(hrs) | Initial | Final | (m ³ /min.) | (m³) | (ug/m ³) | (ug/m ³) | (ug/m ³) |
| 3-Jan-19 | Cloudy | 289.4 | 768 | 2.7579 | 2.8291 | 0.0712 | 24 | 1.6716 | 1.6381 | 1.65 | 2382.9194 | 30 | | |
| 9-Jan-19 | Fine | 291.0 | 767 | 2.7228 | 2.8060 | 0.0832 | 24 | 1.6653 | 1.6381 | 1.65 | 2378.4116 | 35 | | |
| 15-Jan-19 | Cloudy | 292.2 | 764 | 2.7560 | 2.7805 | 0.0245 | 24 | 1.5756 | 1.5557 | 1.57 | 2254.5971 | 11 | 172 | 260 |
| 21-Jan-19 | Fine | 291.0 | 766 | 2.6894 | 2.7492 | 0.0598 | 24 | 1.7485 | 1.7204 | 1.73 | 2497.6065 | 24 | 172 | 200 |
| 25-Jan-19 | Fine | 291.9 | 766 | 2.6631 | 2.7315 | 0.0684 | 24 | 1.6618 | 1.6381 | 1.65 | 2375.9050 | 29 | | |
| 31-Jan-19 | Fine | 294.9 | 764 | 2.7250 | 2.7849 | 0.0599 | 24 | 1.9004 | 1.8850 | 1.89 | 2725.4398 | 22 | | |
| | | | | | | | | | | | Min | 11 | | |
| | | | | | | | | | | | Max | 35 | | |
| | | | | | | | | | | | Average | 25 | | |

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

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

| Start Date | | Air Temperature | Atmospheric Pressure, Pa | Filter W | eight (g) | Particulate | | Flow (m ³ /r | | Average flow | Total volume | 0 | Action Level | Limit Level |
|------------|-----------|-----------------|-----------------------------|----------|-----------|-------------|-----------|----------------------------|-------|------------------------|--------------|---------|-----------------|----------------------|
| | Condition | (K) | (mmHg) | Initial | Final | weight (g) | Time(hrs) | Initial | Final | (m ³ /min.) | (m³) | (ug/m³) | (ug/m^3) | (ug/m ³) |
| 4-Feb-19 | Cloudy | 294.9 | 764 | 2.7549 | 2.8377 | 0.0828 | 24 | 0.82 | 0.81 | 0.82 | 1178.14 | 70 | | |
| 8-Feb-19 | Fine | 294.9 | 762 | 2.6701 | 2.6882 | 0.0181 | 24 | 0.61 | 0.61 | 0.61 | 880.07 | 21 | | |
| 14-Feb-19 | Cloudy | 293.6 | 766 | 2.6787 | 2.7234 | 0.0447 | 24 | 0.66 | 0.65 | 0.65 | 941.82 | 47 | 174 | 260 |
| 20-Feb-19 | Fine | 295.8 | 764 | 2.6367 | 2.6633 | 0.0266 | 24 | 0.61 | 0.61 | 0.61 | 880.09 | 30 | | |
| 26-Feb-19 | Fine | 291.9 | 763 | 2.6664 | 2.7167 | 0.0503 | 24 | 0.74 | 0.73 | 0.74 | 1061.78 | 47 | | |
| | | | | | | | | | | | Min | 21 | | |
| | | | | | | | | | | | Max | 70 | | |
| | | | | | | | | | | | Average | 43 | | |

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





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

AMS2 - Villa Le Parc

| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m³) |
|--|--|--|--|--|--|
| 04/12/18 13:09 | 18 | 10/12/18 13:13 | 28 | 14/12/18 09:56 | 62 |
| 04/12/18 14:09 | 12 | 10/12/18 14:13 | 35 | 14/12/18 10:56 | 70 |
| 04/12/18 15:09 | 11 | 10/12/18 15:13 | 41 | 14/12/18 11:56 | 72 |
| 04/12/18 16:09 | 12 | 10/12/18 16:13 | 44 | 14/12/18 12:56 | 39 |
| 04/12/18 17:09 | 12 | 10/12/18 17:13 | 44 | 14/12/18 13:56 | 26 |
| 04/12/18 18:09 | 19 | 10/12/18 18:13 | 53 | 14/12/18 14:56 | 90 |
| 04/12/18 19:09 | 23 | 10/12/18 19:13 | 55 | 14/12/18 15:56 | 99 |
| 04/12/18 20:09 | 25 | 10/12/18 20:13 | 53 | 14/12/18 16:56 | 99 |
| 04/12/18 21:09 | 23 | 10/12/18 21:13 | 41 | 14/12/18 17:56 | 130 |
| 04/12/18 22:09 | 21 | 10/12/18 22:13 | 51 | 14/12/18 18:56 | 134 |
| 04/12/18 23:09 | 23 | 10/12/18 23:13 | 33 | 14/12/18 19:56 | 115 |
| 05/12/18 00:09 | 18 | 11/12/18 00:13 | 35 | 14/12/18 20:56 | 90 |
| 05/12/18 01:09 | 18 | 11/12/18 01:13 | 35 | 14/12/18 21:56 | 72 |
| 05/12/18 02:09 | 19 | 11/12/18 02:13 | 32 | 14/12/18 22:56 | 76 |
| 05/12/18 03:09 | 19 | 11/12/18 03:13 | 27 | 14/12/18 23:56 | 72 |
| 05/12/18 04:09 | 19 | 11/12/18 04:13 | 28 | 15/12/18 00:56 | 67 |
| 05/12/18 05:09 | 19 | 11/12/18 05:13 | 28 | 15/12/18 01:56 | 72 |
| 05/12/18 06:09 | 21 | 11/12/18 06:13 | 27 | 15/12/18 02:56 | 78 |
| 05/12/18 07:09 | 26 | 11/12/18 07:13 | 29 | 15/12/18 03:56 | 63 |
| 05/12/18 08:09 | 39 | 11/12/18 08:13 | 29 | 15/12/18 04:56 | 56 |
| 05/12/18 09:09 | 37 | 11/12/18 09:13 | 32 | 15/12/18 05:56 | 72 |
| 05/12/18 10:09 | 36 | 11/12/18 10:13 | 35 | 15/12/18 06:56 | 70 |
| 05/12/18 11:09 | 36 | 11/12/18 11:13 | 37 | 15/12/18 07:56 | 76 |
| 05/12/18 12:09 | 35 | 11/12/18 12:13 | 37 | 15/12/18 08:56 | 62 |
| Average | 23 | Average | 37 | Average | 78 |
| Action Level | 166 | Action Level | 166 | Action Level | 166 |
| Limit Level | 260 | Limit Level | 260 | Limit Level | 260 |
| | | | | | |
| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) |
| | | Date and third | isi concentration (µg/ш) | | isr concentration (µg/m) |
| 20/12/18 10:00 | 65 | 24/12/18 09:00 | 65 | 28/12/18 09:15 | 55 |
| 20/12/18 10:00 20/12/18 11:00 | | | | | |
| | 65 | 24/12/18 09:00 | 65 | 28/12/18 09:15 | 55 |
| 20/12/18 11:00 | 65 56 | 24/12/18 09:00 24/12/18 10:00 | 65 63 | 28/12/18 09:15 28/12/18 10:15 | 55 55 |
| 20/12/18 11:00 20/12/18 12:00 | 65 56 58 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 | 65 63 63 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 | 55 55 56 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 | 65 56 58 58 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 11:00 24/12/18 12:00 | 65 63 63 56 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 11:15 28/12/18 12:15 | 55 55 56 58 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 | 65 56 58 58 58 56 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 | 65 63 63 56 56 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 | 55 55 56 58 60 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 | 65 56 58 58 58 56 62 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 14:00 24/12/18 15:00 | 65 63 63 56 56 55 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 28/12/18 13:15 28/12/18 14:15 28/12/18 15:15 | 55 55 56 58 60 60 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 20/12/18 16:00 | 65 56 58 58 56 62 62 62 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 14:00 | 65 63 63 56 56 55 55 55 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 28/12/18 14:15 | 55 55 56 58 60 60 60 58 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 20/12/18 16:00 20/12/18 17:00 | 65 56 58 58 56 62 62 62 60 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 13:00 24/12/18 15:00 24/12/18 15:00 | 65 63 63 56 56 55 55 55 55 55 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 12:15 28/12/18 13:15 28/12/18 14:15 28/12/18 15:15 28/12/18 16:15 | 55 55 56 58 60 60 58 60 58 60 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 13:00 20/12/18 15:00 20/12/18 16:00 20/12/18 17:00 20/12/18 18:00 20/12/18 19:00 | 65 56 58 58 56 62 62 62 60 60 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 14:00 24/12/18 15:00 24/12/18 15:00 24/12/18 17:00 24/12/18 18:00 | 65 63 63 56 56 55 55 55 55 55 53 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 28/12/18 13:15 28/12/18 15:15 28/12/18 15:15 28/12/18 17:15 28/12/18 18:15 | 55 55 58 60 60 58 60 58 60 63 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 20/12/18 16:00 20/12/18 17:00 20/12/18 18:00 | 65 56 58 58 56 62 62 60 60 56 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 13:00 24/12/18 14:00 24/12/18 16:00 24/12/18 17:00 | 65 63 63 56 56 55 55 55 55 53 53 53 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 12:15 28/12/18 13:15 28/12/18 14:15 28/12/18 16:15 28/12/18 16:15 28/12/18 17:15 | 55 55 58 60 60 58 60 58 60 63 63 65 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 13:00 20/12/18 15:00 20/12/18 16:00 20/12/18 17:00 20/12/18 18:00 20/12/18 19:00 20/12/18 20:00 | 65 56 58 58 56 62 62 60 60 60 56 60 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 13:00 24/12/18 14:00 24/12/18 15:00 24/12/18 16:00 24/12/18 18:00 24/12/18 19:00 | 65 63 63 56 55 55 55 55 53 53 53 53 55 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 28/12/18 13:15 28/12/18 15:15 28/12/18 16:15 28/12/18 16:15 28/12/18 18:15 28/12/18 19:15 | 55 55 56 58 60 60 58 60 63 63 65 65 67 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 20/12/18 15:00 20/12/18 16:00 20/12/18 19:00 20/12/18 20:00 20/12/18 21:00 | 65 56 58 58 56 62 62 60 60 60 56 60 56 60 53 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 13:00 24/12/18 15:00 24/12/18 16:00 24/12/18 16:00 24/12/18 19:00 24/12/18 19:00 24/12/18 20:00 | 65 63 63 56 55 55 55 55 53 53 53 53 53 53 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 12:15 28/12/18 12:15 28/12/18 13:15 28/12/18 14:15 28/12/18 16:15 28/12/18 16:15 28/12/18 17:15 28/12/18 18:15 28/12/18 19:15 28/12/18 19:15 | 55 55 58 60 60 60 58 60 63 63 65 67 65 |
| 20/12/18 11:00 20/12/18 12:00 20/12/18 13:00 20/12/18 14:00 20/12/18 15:00 20/12/18 16:00 20/12/18 18:00 20/12/18 18:00 20/12/18 19:00 20/12/18 20:00 20/12/18 22:00 20/12/18 22:00 | 65 56 58 58 56 62 62 60 56 60 56 60 53 53 53 | 24/12/18 09:00 24/12/18 10:00 24/12/18 11:00 24/12/18 12:00 24/12/18 13:00 24/12/18 13:00 24/12/18 14:00 24/12/18 14:00 24/12/18 15:00 24/12/18 19:00 24/12/18 21:00 24/12/18 22:00 | 65 63 63 56 55 55 55 53 53 53 55 53 55 53 55 55 55 | 28/12/18 09:15 28/12/18 10:15 28/12/18 11:15 28/12/18 11:15 28/12/18 12:15 28/12/18 13:15 28/12/18 13:15 28/12/18 13:15 28/12/18 15:15 28/12/18 17:15 28/12/18 19:15 28/12/18 21:15 28/12/18 21:15 | 55 55 56 58 60 60 58 60 63 63 65 67 65 67 65 62 56 |
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 Limit Level
 260
 Limit Level
 260

 Remark
 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.
 260

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. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.762.

| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) |
|--|---|---|--|-------------------------|--|
| 4/02/19 10:40 | 48 | 08/02/19 09:56 | 42 | 14/02/19 10:57 | 45 |
| /02/19 11:40 | 46 | 08/02/19 10:56 | 45 | 14/02/19 11:57 | 40 |
| 02/19 12:40 | 45 | 08/02/19 11:56 | 45 | 14/02/19 12:57 | 38 |
| 02/19 13:40 | 47 | 08/02/19 12:56 | 42 | 14/02/19 13:57 | 36 |
| 02/19 14:40 | 42 | 08/02/19 13:56 | 38 | 14/02/19 14:57 | 34 |
| 2/19 15:40 | 40 | 08/02/19 14:56 | 38 | 14/02/19 15:57 | 32 |
| 02/19 16:40 | 44 | 08/02/19 15:56 | 32 | 14/02/19 16:57 | 30 |
| 02/19 17:40 | 46 | 08/02/19 16:56 | 30 | 14/02/19 17:57 | 34 |
| 02/19 18:40 | 46 | 08/02/19 17:56 | 30 | 14/02/19 18:57 | 36 |
| /02/19 19:40 | 44 | 08/02/19 18:56 | 34 | 14/02/19 19:57 | 42 |
| /02/19 20:40 | 48 | 08/02/19 19:56 | 32 | 14/02/19 20:57 | 57 |
| 02/19 21:40 | 62 | 08/02/19 20:56 | 40 | 14/02/19 21:57 | 68 |
| 02/19 22:40 | 74 | 08/02/19 21:56 | 55 | 14/02/19 22:57 | 72 |
| 2/19 23:40 | 67 | 08/02/19 22:56 | 68 | 14/02/19 23:57 | 79 |
| 02/19 00:40 | 66 | 08/02/19 23:56 | 72 | 15/02/19 00:57 | 62 |
| 02/19 01:40 | 56 | 09/02/19 00:56 | 79 | 15/02/19 01:57 | 42 |
| 02/19 02:40 | 48 | 09/02/19 01:56 | 62 | 15/02/19 02:57 | 51 |
| /02/19 03:40 | 47 | 09/02/19 02:56 | 40 | 15/02/19 03:57 | 51 |
| 02/19 04:40 | 46 | 09/02/19 03:56 | 49 | 15/02/19 04:57 | 64 |
| /02/19 05:40 | 41 | 09/02/19 04:56 | 51 | 15/02/19 05:57 | 62 |
| 02/19 06:40 | 44 | 09/02/19 05:56 | 64 | 15/02/19 06:57 | 51 |
| /02/19 07:40 | 46 | 09/02/19 06:56 | 64 | 15/02/19 07:57 | 45 |
| 02/19 08:40 | 42 | 09/02/19 07:56 | 60 | 15/02/19 08:57 | 43 |
| 02/19 09:40 | 45 | 09/02/19 08:56 | 53 | 15/02/19 09:57 | 45 |
| | 49 | | 49 | | 48 |
| Average | 49 | Average | 49 | Average | 40 |
| Average tion Level | 166 | Average Action Level | 166 | Average Action Level | 166 |
| ction Level | | | | | |
| Action Level Limit Level | 166 260 | Action Level Limit Level | 166 260 | Action Level | 166 |
| Action Level Limit Level e and Time | 166 260 TSP Concentration (µg/m³) | Action Level Limit Level Date and Time | 166 260 TSP Concentration (μg/m³) | Action Level | 166 |
| Action Level Limit Level and Time 02/19 11:13 | 166 260 TSP Concentration (μg/m³) 24 | Action Level Limit Level Date and Time 26/02/19 10:00 | 166 260 TSP Concentration (μg/m [*]) 26 | Action Level | 166 |
| Action Level Limit Level 22/19 11:13 22/19 12:13 | 166 260 TSP Concentration (µg/m³) 24 20 | Action Level Limit Level Date and Time 26/02/19 10:00 26/02/19 11:00 | 166 260 TSP Concentration (µg/m³) 26 24 | Action Level | 166 |
| Action Level Limit Level 02/19 11:13 02/19 12:13 02/19 13:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 | 166 260 TSP Concentration (μg/m³) 26 24 24 20 | Action Level | 166 |
| Action Level Limit Level /02/19 11:13 /02/19 12:13 /02/19 13:13 /02/19 14:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 | Action Level Limit Level Date and Time 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 | 166 260 TSP Concentration (μg/m [*]) 26 24 20 15 | Action Level | 166 |
| Action Level Limit Level 02/19 11:13 02/19 12:13 02/19 13:13 02/19 13:13 02/19 14:13 02/19 15:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 | Action Level Limit Level Date and Time 26/02/19 10:00 26/02/19 11:00 26/02/19 13:00 26/02/19 13:00 26/02/19 14:00 | 166 260 TSP Concentration (µg/m³) 26 24 24 20 15 14 | Action Level | 166 |
| Action Level Limit Level 02/19 11:13 02/19 12:13 02/19 13:13 02/19 14:13 02/19 15:13 02/19 15:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 14:00 26/02/19 15:00 | 166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 | Action Level | 166 |
| Action Level Limit Level 22/19 11:13 02/19 12:13 02/19 13:13 02/19 14:13 02/19 15:13 02/19 16:13 02/19 16:13 02/19 17:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 14:00 26/02/19 15:00 26/02/19 16:00 | 166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 | Action Level | 166 |
| Action Level Limit Level 22/19 11:13 22/19 12:13 22/19 12:13 22/19 13:13 22/19 14:13 22/19 15:13 22/19 16:13 22/19 17:13 22/19 17:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 15 14 15 14 15 14 15 14 16 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 15:00 26/02/19 16:00 26/02/19 16:00 | 166 260 TSP Concentration (μg/m [*]) 26 24 20 15 14 16 15 14 16 15 17 | Action Level | 166 |
| and Time 12/19 11:13 12/19 12:13 12/19 12:13 12/19 13:13 12/19 14:13 12/19 15:13 12/19 15:13 12/19 16:13 12/19 18:13 12/19 19:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 16 16 16 16 16 16 16 16 17 16 16 16 16 16 16 16 16 16 16 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 14:00 26/02/19 15:00 26/02/19 17:00 26/02/19 17:00 26/02/19 18:00 | 166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 14 16 15 17 19 | Action Level | 166 |
| Action Level Limit Level 22/19 11:13 22/19 12:13 22/19 13:13 22/19 13:13 22/19 13:13 22/19 15:13 22/19 16:13 22/19 17:13 22/19 17:13 22/19 19:13 22/19 20:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 14:00 26/02/19 14:00 26/02/19 16:00 26/02/19 18:00 26/02/19 18:00 26/02/19 19:00 | 166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 17 17 19 22 | Action Level | 166 |
| Action Level Limit Level 2 and Time 02/19 11:13 02/19 12:13 02/19 12:13 02/19 13:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 19:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 20:13 | 166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 16:00 26/02/19 19:00 26/02/19 19:00 26/02/19 19:00 | 166 260 TSP Concentration (μg/m³) 26 24 20 15 14 16 15 17 19 22 24 | Action Level | 166 |
| and Time 2/19 11:13 2/19 12:13 2/19 12:13 2/19 13:13 2/19 14:13 2/19 15:13 2/19 16:13 2/19 16:13 2/19 17:13 2/19 19:13 2/19 19:13 2/19 19:13 2/19 19:13 2/19 19:13 2/19 20:13 2/19 22:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 15:00 26/02/19 16:00 26/02/19 17:00 26/02/19 17:00 26/02/19 19:00 26/02/19 20:00 26/02/19 20:00 | 166 260 TSP Concentration (μg/m ³) 26 24 20 15 14 16 15 14 16 15 17 19 22 24 29 | Action Level | 166 |
| Action Level Limit Level 2 and Time 02/19 11:13 02/19 12:13 02/19 13:13 02/19 14:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 16:13 02/19 17:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 21:13 02/19 21:13 02/19 21:13 02/19 23:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 16 19 25 39 57 54 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 14:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 12:00 26/02/19 21:00 26/02/19 22:00 | 166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 14 16 15 17 19 22 24 29 39 | Action Level | 166 |
| Action Level Limit Level a and Time a and Time D2/19 11:13 D2/19 12:13 D2/19 13:13 D2/19 13:13 D2/19 15:13 D2/19 15:13 D2/19 15:13 D2/19 15:13 D2/19 19:13 D2/19 19:13 D2/19 19:13 D2/19 19:13 D2/19 20:13 D2/19 20:14 D2/19 20 D2/1 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 12:00 26/02/19 13:00 26/02/19 14:00 26/02/19 15:00 26/02/19 15:00 26/02/19 18:00 26/02/19 19:00 26/02/19 19:00 26/02/19 20:00 26/02/19 22:00 | 166 260 TSP Concentration (μg/m ³) 26 24 20 15 14 16 15 14 16 15 17 19 22 24 29 | Action Level | 166 |
| Action Level Limit Level Limit Level 22/19 11:13 32/19 12:13 32/19 13:13 32/19 15:13 32/19 16:13 32/19 17:13 32/19 16:13 32/19 17:13 32/19 16:13 32/19 17:13 32/19 12:13 32/19 20:13 32/19 20:13 32/19 21:13 32/19 21:13 32/19 21:13 32/19 21:13 32/19 21:13 32/19 21:13 32/19 00:13 | 166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 54 42 30 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 16:00 26/02/19 17:00 26/02/19 10:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 | 166 260 TSP Concentration (μg/m [*]) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38 | Action Level | 166 |
| Action Level Limit Level 2 and Time 02/19 11:13 02/19 12:13 02/19 12:13 02/19 13:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 19:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 22:13 02/19 22:13 02/19 02:13 02/19 02:13 02/19 02:13 | 166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 54 42 30 35 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 21:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 20:00 27/02/19 00:00 27/02/19 01:00 | 166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38 36 | Action Level | 166 |
| Action Level Limit Level and Time and Time 02/19 11:13 02/19 12:13 02/19 12:13 02/19 16:13 02/19 16:13 02/19 16:13 02/19 16:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 22:13 02/19 22:13 02/19 22:13 02/19 00:13 02/19 00:13 02/19 02:13 | 166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 54 42 30 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 16:00 26/02/19 17:00 26/02/19 10:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 | 166 260 TSP Concentration (μg/m [*]) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38 | Action Level | 166 |
| Action Level Limit Level 2 and Time 02/19 11:13 02/19 12:13 02/19 12:13 02/19 14:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 15:13 02/19 19:13 02/19 19:13 02/19 20:13 02/19 21:13 02/19 21:13 02/19 20:13 02/19 20:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13 02/19 01:13 | 166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 15 14 16 19 25 39 57 54 42 30 35 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 21:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 20:00 27/02/19 00:00 27/02/19 01:00 | 166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38 36 | Action Level | 166 |
| Action Level Limit Level 2 and Time 02/19 11:13 02/19 12:13 02/19 13:13 02/19 13:13 02/19 14:13 02/19 16:13 02/19 16:13 02/19 17:13 02/19 17:13 02/19 21:13 02/19 21:13 02/19 21:13 02/19 21:13 02/19 01:13 02/19 01:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 15 14 5 16 19 25 39 57 54 42 30 35 27 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 14:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 12:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 27/02/19 01:00 27/02/19 01:00 | 166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38 36 35 | Action Level | 166 |
| Action Level Limit Level te and Time /02/19 11:13 /02/19 12:13 /02/19 12:13 /02/19 13:13 /02/19 13:13 /02/19 15:13 /02/19 16:13 /02/19 19:13 /02/19 19:13 /02/19 20:13 /02/19 22:13 /02/19 22:13 /02/19 02:13 /02/19 00:13 /02/19 00:13 /02/19 03:13 /02/19 03:13 /02/19 03:13 /02/19 03:13 /02/19 03:13 /02/19 03:13 /02/19 03:13 /02/19 05:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 16 17 18 19 25 39 57 54 42 30 35 27 16 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 14:00 26/02/19 15:00 26/02/19 17:00 26/02/19 18:00 26/02/19 19:00 26/02/19 19:00 26/02/19 20:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 27/02/19 00:00 27/02/19 00:00 27/02/19 00:00 | 166 260 TSP Concentration (μg/m³) 26 24 20 15 14 16 15 14 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38 36 35 29 | Action Level | 166 |
| Action Level Limit Level (02/19 11:13 (02/19 12:13 (02/19 12:13 (02/19 13:13 (02/19 14:13 (02/19 15:13 (02/19 15:13 (02/19 15:13 (02/19 17:13 (02/19 19:13 (02/19 19:13 (02/19 20:13 (02/19 22:13 (02/19 02:13 (02/19 02:13 (02/19 03:13 (02/19 04:13 (02/19 06:13 (02/19 06:13 (02 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 15 14 15 14 16 19 25 39 57 54 42 30 35 27 16 15 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 16:00 26/02/19 17:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 27/02/19 00:00 27/02/19 00:00 27/02/19 00:00 27/02/19 00:00 27/02/19 00:00 27/02/19 00:00 | 166 260 TSP Concentration (μg/m³) 26 24 20 15 14 16 15 14 20 21 22 23 24 29 39 42 38 36 35 29 28 | Action Level | 166 |
| Action Level Limit Level te and Time te and Time te and Time te and Time te and Time te and Time transload (02/19 11:13 (02/19 12:13 (02/19 15:13 (02/19 15:13 (02/19 17:13 (02/19 11:13 (02/19 12:13 (02/19 21:13 (02/19 21:13 (02/19 21:13 (02/19 21:13 (02/19 02:13 (02/19 01:13 (02/19 02:13 (02/19 03:13 (02/19 05:13 (02/19 05:13 (02/19 07:13 (02/19 07:13 | 166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 16 19 25 39 57 54 42 30 35 27 16 15 14 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 11:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 15:00 26/02/19 17:00 26/02/19 17:00 26/02/19 12:00 26/02/19 21:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 20:00 27/02/19 00:00 27/02/19 00:00 27/02/19 00:00 27/02/19 00:00 27/02/19 00:00 27/02/19 00:00 | 166 260 TSP Concentration (µg/m³) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 29 39 42 38 36 35 29 28 20 | Action Level | 166 |
| Action Level Limit Level 02/19 11:13 02/19 12:13 02/19 12:13 02/19 12:13 02/19 13:13 02/19 14:13 02/19 15:13 02/19 16:13 02/19 19:13 02/19 19:13 02/19 19:13 02/19 19:13 02/19 22:13 02/19 22:13 02/19 22:13 02/19 02:13 02/19 03:13 02/19 06:13 02/19 06:13 02/19 06:13 | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 16 19 25 39 57 54 42 30 35 27 16 15 14 15 14 15 14 16 17 | Action Level Limit Level 26/02/19 10:00 26/02/19 11:00 26/02/19 11:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 14:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 21:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 27/02/19 01:00 27/02/19 01:00 27/02/19 01:00 27/02/19 05:00 27/02/19 05:00 27/02/19 05:00 | 166 260 TSP Concentration (μg/m³) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 36 35 29 28 20 17 | Action Level | 166 |
| Action Level Limit Level Limit Level ce and Time (02/19 11:13 (02/19 12:13 (02/19 12:13 (02/19 13:13 (02/19 15:13 (02/19 15:13 (02/19 15:13 (02/19 15:13 (02/19 15:13 (02/19 15:13 (02/19 15:13 (02/19 22:13 (02/19 22:13 (02/19 0 | 166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 16 19 25 39 57 54 42 30 35 27 16 15 14 17 19 | Action Level Limit Level 26/02/19 10:00 26/02/19 10:00 26/02/19 11:00 26/02/19 12:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 17:00 26/02/19 10:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 27/02/19 00:00 27/02/19 00:00 | 166 260 TSP Concentration (μg/m³) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 38 36 25 29 28 20 17 23 | Action Level | 166 |
| Action Level Limit Level Comparison of the second s | 166 260 TSP Concentration (μg/m³) 24 20 16 15 14 15 14 16 19 25 39 57 54 42 30 35 27 16 15 14 15 20 | Action Level Limit Level 26/02/19 10:00 26/02/19 10:00 26/02/19 11:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 16:00 26/02/19 16:00 26/02/19 16:00 26/02/19 17:00 26/02/19 21:00 26/02/19 20:00 26/02/19 20:00 26/02/19 20:00 27/02/19 00:00 27/02/19 00:00 | 166 260 TSP Concentration (μg/m³) 26 24 20 15 14 16 15 14 26 24 29 39 42 29 39 42 29 38 36 35 29 28 20 17 23 27 | Action Level | 166 |
| Action Level Limit Level Action Action Action Action Action Level Action Acti | 166 260 TSP Concentration (µg/m³) 24 20 16 15 14 15 14 16 19 25 39 57 54 42 30 35 27 16 15 14 15 14 17 19 20 20 22 | Action Level Limit Level 26/02/19 10:00 26/02/19 10:00 26/02/19 11:00 26/02/19 13:00 26/02/19 13:00 26/02/19 13:00 26/02/19 15:00 26/02/19 17:00 26/02/19 17:00 26/02/19 17:00 26/02/19 21:00 26/02/19 21:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 22:00 26/02/19 20:00 27/02/19 00:00 27/02/19 00:00 27/02/19 06:00 27/02/19 08:00 27/02/19 08:00 27/02/19 09:00 | 166 260 TSP Concentration (µg/m*) 26 24 20 15 14 16 15 17 19 22 24 29 39 42 29 39 42 38 36 35 29 28 20 17 28 20 17 28 20 17 28 20 17 28 20 28 20 28 20 28 20 28 20 28 20 28 20 28 20 28 20 28 29 28 20 28 20 28 20 28 29 28 20 28 29 28 29 28 29 28 20 28 29 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 20 28 29 28 20 28 20 28 20 28 20 28 20 28 20 28 29 28 20 28 20 28 20 28 29 28 20 28 20 28 29 28 20 28 29 28 29 28 20 28 29 28 29 28 29 28 20 28 20 28 29 28 20 28 29 28 20 28 29 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 29 28 20 28 20 28 29 28 20 28 20 28 20 28 29 28 29 28 20 28 20 27 28 20 28 20 28 20 27 28 20 27 28 20 27 27 27 27 27 27 27 27 27 27 | Action Level | 166 |

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. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.762.

| AMS3A - Wai Wah | Centre | | | - | | |
|--|--|--|--|-----|--|--|
| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (μg/m ³) | | Date and Time | TSP Concentration (µg/m ³) |
| 04/12/18 13:42 | 39 | 10/12/18 14:12 | 48 | | 14/12/18 13:45 | 77 |
| 04/12/18 14:42 | 27 | 10/12/18 15:12 | 57 | | 14/12/18 14:45 | 82 |
| 04/12/18 15:42 | 39 | 10/12/18 16:12 | 61 | | 14/12/18 15:45 | 91 |
| 04/12/18 16:42 | 48 | 10/12/18 17:12 | 68 | | 14/12/18 16:45 | 91 |
| 04/12/18 17:42 | 45 | 10/12/18 18:12 | 62 | | 14/12/18 17:45 | 132 |
| 04/12/18 18:42 | 50 | 10/12/18 19:12 | 77 | | 14/12/18 18:45 | 143 |
| 04/12/18 19:42 | 46 | 10/12/18 20:12 | 71 | | 14/12/18 19:45 | 130 |
| 04/12/18 20:42 | 41 | 10/12/18 21:12 | 59 | | 14/12/18 20:45 | 118 |
| 04/12/18 21:42 | 37 | 10/12/18 22:12 | 45 | | 14/12/18 21:45 | 91 |
| 04/12/18 22:42 | 39 | 10/12/18 23:12 | 43 | | 14/12/18 22:45 | 86 |
| 04/12/18 23:42 | 39 | 11/12/18 00:12 | 55 | | 14/12/18 23:45 | 77 |
| 05/12/18 00:42 | 29 | 11/12/18 01:12 | 43 | | 15/12/18 00:45 | 71 |
| 05/12/18 01:42 | 27 | 11/12/18 02:12 | 77 | | 15/12/18 01:45 | 69 |
| 05/12/18 02:42 | 27 | 11/12/18 03:12 | 43 | | 15/12/18 02:45 | 78 |
| 05/12/18 03:42 | 29 | 11/12/18 04:12 | 34 | | 15/12/18 03:45 | 84 |
| 05/12/18 04:42 | 23 | 11/12/18 05:12 | 29 | | 15/12/18 04:45 | 96 |
| 05/12/18 05:42 | 39 | 11/12/18 06:12 | 30 | | 15/12/18 05:45 | 100 |
| 05/12/18 06:42 | 50 | 11/12/18 07:12 | 37 | | 15/12/18 06:45 | 91 |
| 05/12/18 07:42 | 55 | 11/12/18 08:12 | 43 | | 15/12/18 07:45 | 109 |
| 05/12/18 08:42 | 121 | 11/12/18 09:12 | 45 | | 15/12/18 08:45 | 95 |
| 05/12/18 09:42 | 121 | 11/12/18 09:12 | 40 | | 15/12/18 09:45 | 78 |
| 05/12/18 09:42 | 74 | 11/12/18 10:12 | 47 | | 15/12/18 10:45 | 84 |
| 05/12/18 10:42 | 74 75 | 11/12/18 11:12 | 48 48 | | 15/12/18 10:45 | 84 110 |
| 05/12/18 12:42 | 76 | 11/12/18 12:12 | 48 | | 15/12/18 11:45 | 103 |
| Average | 49 | 11/12/18 13:12 Average | 51 | | 15/12/18 12:45 Average | 95 |
| Action Level | 200 | Action Level | 200 | | Action Level | 200 |
| Limit Level | 260 | Limit Level | 200 | - | Limit Level | 260 |
| Liffiit Level | 200 | Liniit Level | 200 | 1 1 | Linnit Lever | 200 |
| | | | | | | |
| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) |] | Date and Time | TSP Concentration (µg/m ³) |
| Date and Time 20/12/18 09:30 | TSP Concentration (µg/m³) 86 | Date and Time 24/12/18 14:25 | TSP Concentration (μg/m³) 55 | | Date and Time 28/12/18 11:41 | TSP Concentration (µg/m³) 68 |
| | | | | | | |
| 20/12/18 09:30 | 86 | 24/12/18 14:25 | 55 | | 28/12/18 11:41 | 68 |
| 20/12/18 09:30 20/12/18 10:30 | 86 86 | 24/12/18 14:25 24/12/18 15:25 | 55 48 | | 28/12/18 11:41 28/12/18 12:41 | 68 71 |
| 20/12/18 09:30 20/12/18 10:30 20/12/18 11:30 | 86 86 87 | 24/12/18 14:25 24/12/18 15:25 24/12/18 16:25 | 55 48 46 | | 28/12/18 11:41 28/12/18 12:41 28/12/18 13:41 | 68 71 71 |
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| 20/12/18 09:30 20/12/18 10:30 20/12/18 11:30 20/12/18 12:30 20/12/18 12:30 20/12/18 14:30 20/12/18 16:30 20/12/18 16:30 20/12/18 17:30 20/12/18 19:30 20/12/18 20:30 20/12/18 20:30 20/12/18 20:30 20/12/18 20:30 20/12/18 20:30 21/12/18 00:30 21/12/18 00:30 21/12/18 00:30 21/12/18 05:30 21/12/18 05:30 21/12/18 05:30 21/12/18 05:30 21/12/18 05:30 21/12/18 05:30 21/12/18 05:30 21/12/18 05:30 | 86 86 87 89 87 91 86 88 84 84 80 80 80 80 80 80 80 80 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 80 80 80 80 80 80 80 80 80 80 80 80 | 24/12/18 14:25 24/12/18 14:25 24/12/18 15:25 24/12/18 16:25 24/12/18 17:25 24/12/18 19:25 24/12/18 19:25 24/12/18 21:25 24/12/18 21:25 24/12/18 21:25 24/12/18 22:25 24/12/18 22:25 24/12/18 22:25 25/12/18 00:25 25/12/18 00:25 25/12/18 00:25 25/12/18 00:25 25/12/18 06:25 25/12/18 06:25 25/12/18 06:25 25/12/18 06:25 25/12/18 07:25 25/12/18 07:25 25/12/18 07:25 25/12/18 07:25 25/12/18 07:25 25/12/18 07:25 25/12/18 10:25 25/12/18 11:25 25/12/18 11:25 25/12/18 11:25 25/12/18 11:25 25/12/18 13:25 | 55 48 46 52 53 66 61 55 39 50 45 39 46 53 39 46 53 50 48 46 53 50 48 46 53 50 48 46 53 50 48 46 55 52 36 39 43 50 49 | | 28/12/18 11:41 28/12/18 11:41 28/12/18 12:41 28/12/18 13:41 28/12/18 13:41 28/12/18 15:41 28/12/18 16:41 28/12/18 17:41 28/12/18 19:41 28/12/18 20:41 28/12/18 22:41 28/12/18 22:41 29/12/18 00:41 29/12/18 03:41 29/12/18 03:41 29/12/18 05:41 29/12/18 06:41 29/12/18 09:41 29/12/18 09:41 29/12/18 10:41 | 68 71 71 75 75 77 77 78 80 82 82 82 73 71 57 45 45 45 45 50 57 66 66 64 68 |
| 20/12/18 09:30 20/12/18 10:30 20/12/18 11:30 20/12/18 12:30 20/12/18 12:30 20/12/18 14:30 20/12/18 16:30 20/12/18 16:30 20/12/18 17:30 20/12/18 19:30 20/12/18 20:30 20/12/18 20:30 20/12/18 21:30 20/12/18 20:30 20/12/18 20:30 21/12/18 00:30 21/12/18 00:30 | 86 86 87 89 87 91 86 88 84 80 80 80 80 80 80 80 80 80 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 78 80 80 80 80 80 80 80 80 80 80 80 80 80 | 24/12/18 14:25 24/12/18 14:25 24/12/18 15:25 24/12/18 16:25 24/12/18 17:25 24/12/18 19:25 24/12/18 19:25 24/12/18 21:25 24/12/18 21:25 24/12/18 22:25 24/12/18 23:25 25/12/18 00:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 25/12/18 10:25 | 55 48 46 52 53 53 66 61 55 39 50 45 39 46 53 50 45 39 46 53 50 48 46 55 55 52 36 39 43 50 | | 28/12/18 11:41 28/12/18 12:41 28/12/18 13:41 28/12/18 13:41 28/12/18 15:41 28/12/18 15:41 28/12/18 15:41 28/12/18 16:41 28/12/18 19:41 28/12/18 19:41 28/12/18 20:41 28/12/18 20:41 28/12/18 20:41 29/12/18 00:41 29/12/18 03:41 29/12/18 05:41 29/12/18 05:41 29/12/18 07:41 29/12/18 09:41 29/12/18 09:41 29/12/18 09:41 29/12/18 09:41 29/12/18 09:41 | 68 71 71 75 75 77 77 78 80 82 82 82 73 71 57 45 45 50 57 66 66 66 64 |

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. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.782.

| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) |
|----------------|--|----------------|--|
| 04/02/19 11:15 | 47 | 08/02/19 12:53 | 59 |
| 04/02/19 12:15 | 39 | 08/02/19 13:53 | 69 |
| 04/02/19 13:15 | 31 | 08/02/19 14:53 | 62 |
| 04/02/19 14:15 | 31 | 08/02/19 15:53 | 66 |
| 04/02/19 15:15 | 42 | 08/02/19 16:53 | 72 |
| 04/02/19 16:15 | 54 | 08/02/19 17:53 | 72 |
| 04/02/19 17:15 | 67 | 08/02/19 18:53 | 80 |
| 04/02/19 18:15 | 69 | 08/02/19 19:53 | 77 |
| 04/02/19 19:15 | 72 | 08/02/19 20:53 | 77 |
| 04/02/19 20:15 | 74 | 08/02/19 21:53 | 69 |
| 04/02/19 21:15 | 78 | 08/02/19 22:53 | 63 |
| 04/02/19 22:15 | 81 | 08/02/19 23:53 | 66 |
| 04/02/19 23:15 | 62 | 09/02/19 00:53 | 53 |
| 05/02/19 00:15 | 64 | 09/02/19 01:53 | 52 |
| 05/02/19 01:15 | 68 | 09/02/19 02:53 | 44 |
| 05/02/19 02:15 | 64 | 09/02/19 03:53 | 45 |
| 05/02/19 03:15 | 59 | 09/02/19 04:53 | 45 |
| 05/02/19 04:15 | 72 | 09/02/19 05:53 | 45 |
| 05/02/19 05:15 | 66 | 09/02/19 06:53 | 52 |
| 05/02/19 06:15 | 64 | 09/02/19 07:53 | 56 |
| 05/02/19 07:15 | 54 | 09/02/19 08:53 | 58 |
| 05/02/19 08:15 | 56 | 09/02/19 09:53 | 63 |
| 05/02/19 09:15 | 48 | 09/02/19 10:53 | 65 |
| 05/02/19 10:15 | 52 | 09/02/19 11:53 | 60 |
| Average | 59 | Average | 61 |
| Action Level | 200 | Action Level | 200 |
| Limit Level | 260 | Limit Level | 260 |
| | | -, <u> </u> | |
| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (μg/m ³ |
| 20/02/19 10:22 | 82 | 26/02/19 11:00 | 55 |
| 20/02/19 11:22 | 78 | 26/02/19 12:00 | 56 |
| 20/02/19 12:22 | 71 | 26/02/19 13:00 | 56 |
| 20/02/19 13:22 | 65 | 26/02/19 14:00 | 56 |
| 20/02/19 14:22 | 57 | 26/02/19 15:00 | 59 |
| | | | |

| | Date and Time | TSP Concentration (µg/m ³) |
|---|----------------|--|
| | 14/02/19 11:28 | 56 |
| | 14/02/19 12:28 | 42 |
| | 14/02/19 13:28 | 46 |
| | 14/02/19 14:28 | 37 |
| | 14/02/19 15:28 | 31 |
| | 14/02/19 16:28 | 27 |
| | 14/02/19 17:28 | 33 |
| | 14/02/19 18:28 | 37 |
| | 14/02/19 19:28 | 41 |
| | 14/02/19 20:28 | 48 |
| | 14/02/19 21:28 | 54 |
| | 14/02/19 22:28 | 54 |
| | 14/02/19 23:28 | 52 |
| | 15/02/19 00:28 | 42 |
| | 15/02/19 01:28 | 21 |
| | 15/02/19 02:28 | 27 |
| | 15/02/19 03:28 | 27 |
| | 15/02/19 04:28 | 33 |
| | 15/02/19 05:28 | 35 |
| | 15/02/19 06:28 | 35 |
| | 15/02/19 07:28 | 39 |
| | 15/02/19 08:28 | 42 |
| | 15/02/19 09:28 | 48 |
| | 15/02/19 10:28 | 52 |
| 1 | Average | 40 |
| | Action Level | 200 |
| 1 | Limit Level | 260 |

| Date and Time | TSP Concentration (µg/m³) | Date and Time | TSP Concentration (μg/m ³) |
|----------------|---------------------------|----------------|--|
| 20/02/19 10:22 | 82 | 26/02/19 11:00 | 55 |
| 20/02/19 11:22 | 78 | 26/02/19 12:00 | 56 |
| 20/02/19 12:22 | 71 | 26/02/19 13:00 | 56 |
| 20/02/19 13:22 | 65 | 26/02/19 14:00 | 56 |
| 20/02/19 14:22 | 57 | 26/02/19 15:00 | 59 |
| 20/02/19 15:22 | 50 | 26/02/19 16:00 | 64 |
| 20/02/19 16:22 | 47 | 26/02/19 17:00 | 70 |
| 20/02/19 17:22 | 43 | 26/02/19 18:00 | 71 |
| 20/02/19 18:22 | 46 | 26/02/19 19:00 | 60 |
| 20/02/19 19:22 | 47 | 26/02/19 20:00 | 67 |
| 20/02/19 20:22 | 48 | 26/02/19 21:00 | 60 |
| 20/02/19 21:22 | 60 | 26/02/19 22:00 | 54 |
| 20/02/19 22:22 | 75 | 26/02/19 23:00 | 35 |
| 20/02/19 23:22 | 66 | 27/02/19 00:00 | 28 |
| 21/02/19 00:22 | 55 | 27/02/19 01:00 | 28 |
| 21/02/19 01:22 | 45 | 27/02/19 02:00 | 26 |
| 21/02/19 02:22 | 46 | 27/02/19 03:00 | 21 |
| 21/02/19 03:22 | 33 | 27/02/19 04:00 | 26 |
| 21/02/19 04:22 | 25 | 27/02/19 05:00 | 40 |
| 21/02/19 05:22 | 38 | 27/02/19 06:00 | 39 |
| 21/02/19 06:22 | 61 | 27/02/19 07:00 | 42 |
| 21/02/19 07:22 | 67 | 27/02/19 08:00 | 45 |
| 21/02/19 08:22 | 75 | 27/02/19 09:00 | 48 |
| 21/02/19 09:22 | 79 | 27/02/19 10:00 | 50 |
| Average | 57 | Average | 48 |
| Action Level | 200 | Action Level | 200 |
| Limit Level | 260 | Limit Level | 260 |

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. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.782.

| | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) |
|--|---|--|---|--|--|
| 03/01/19 09:30 | 76 | 09/01/19 10:00 | 128 | 15/01/19 10:00 | |
| 03/01/19 10:30 | 76 | 09/01/19 11:00 | 108 | 15/01/19 11:00 | |
| 03/01/19 11:30 | 76 | 09/01/19 12:00 | 108 | 15/01/19 12:00 | |
| 03/01/19 12:30 | 78 | 09/01/19 13:00 | 81 | 15/01/19 13:00 | |
| 03/01/19 13:30 | 78 | 09/01/19 14:00 | 64 | 15/01/19 14:00 | |
| 03/01/19 14:30 | 74 | 09/01/19 15:00 | 62 | 15/01/19 15:00 | |
| 03/01/19 15:30 | 76 | 09/01/19 16:00 | 70 | 15/01/19 16:00 | |
| 03/01/19 16:30 | 74 | 09/01/19 17:00 | 76 | 15/01/19 17:00 | |
| 03/01/19 17:30 | 76 | 09/01/19 18:00 | 79 | 15/01/19 18:00 | |
| 03/01/19 17:30 | 76 | 09/01/19 19:00 | 81 | 15/01/19 18:00 | |
| 03/01/19 18:30 | 74 | 09/01/19 19:00 | 94 | 15/01/19 19:00 | |
| 03/01/19 19:30 | 76 | 09/01/19 20:00 | 81 | 15/01/19 20:00 | |
| 03/01/19 20:30 | 78 | 09/01/19 21:00 | 72 | 15/01/19 22:00 | |
| 03/01/19 22:30 | 72 | | 81 | | |
| | 72 70 | 09/01/19 23:00 | 74 | 15/01/19 23:00 | |
| 03/01/19 23:30 | | 10/01/19 00:00 | | 16/01/19 00:00 | |
| 04/01/19 00:30 | 70 | 10/01/19 01:00 | 66 | 16/01/19 01:00 | |
| 04/01/19 01:30 | 70 | 10/01/19 02:00 | 70 | 16/01/19 02:00 | |
| 04/01/19 02:30 | 72 | 10/01/19 03:00 | 59 | 16/01/19 03:00 | |
| 04/01/19 03:30 | 74 | 10/01/19 04:00 | 66 | 16/01/19 04:00 | |
| 04/01/19 04:30 | 76 | 10/01/19 05:00 | 70 | 16/01/19 05:00 | |
| 04/01/19 05:30 | 76 | 10/01/19 06:00 | 76 | 16/01/19 06:00 | |
| 04/01/19 06:30 | 76 | 10/01/19 07:00 | 70 | 16/01/19 07:00 | |
| 04/01/19 07:30 | 78 | 10/01/19 08:00 | 70 | 16/01/19 08:00 | |
| 04/01/19 08:30 | 76 | 10/01/19 09:00 | 76 | 16/01/19 09:00 | |
| Average | 75 | Average | 78 | Average | |
| Action Level | 200 260 | Action Level Limit Level | 200 260 | Action Level | |
| Limit Level | 260 | Limit Level | 260 | Limit Level | 260 |
| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) |
| 21/01/19 13:00 | 87 | 25/01/19 10:00 | 69 | 31/01/19 11:20 | 60 |
| 21/01/19 14:00 | 83 | 25/01/19 11:00 | 59 | 31/01/19 12:20 | 60 |
| 21/01/19 15:00 | | | | | 60 |
| | 79 | 25/01/19 12:00 | 45 | 31/01/19 13:20 | |
| | 79 81 | | | | 62 |
| 21/01/19 16:00 | 81 | 25/01/19 12:00 25/01/19 13:00 | 45 | 31/01/19 13:20 31/01/19 14:20 | 62 62 |
| 21/01/19 16:00 21/01/19 17:00 | | 25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 | 45 40 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 | 62 62 64 |
| 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 | 81 100 | 25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 | 45 40 30 37 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 16:20 | 62 62 64 73 |
| 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 | 81 100 109 | 25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 | 45 40 30 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 16:20 31/01/19 17:20 | 62 62 64 73 82 |
| 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 | 81 100 109 92 87 | 25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00 | 45 40 30 37 52 56 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 16:20 31/01/19 17:20 31/01/19 18:20 | 62 62 64 73 82 84 |
| 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 21/01/19 21:00 | 81 100 109 92 87 109 | 25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00 25/01/19 18:00 | 45 40 30 37 52 56 61 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 17:20 31/01/19 18:20 31/01/19 18:20 | 62 62 64 73 82 84 83 |
| 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 21/01/19 21:00 21/01/19 22:00 | 81 100 109 92 87 109 105 | 25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00 25/01/19 19:00 | 45 40 30 37 52 56 61 64 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 17:20 31/01/19 18:20 31/01/19 18:20 31/01/19 19:20 | 62 62 64 73 82 84 83 83 82 |
| 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 21/01/19 21:00 21/01/19 22:00 21/01/19 23:00 | 81 100 109 92 87 109 105 100 | 25/01/19 12:00 25/01/19 13:00 25/01/19 15:00 25/01/19 16:00 25/01/19 16:00 25/01/19 17:00 25/01/19 18:00 25/01/19 19:00 25/01/19 20:00 | 45 40 30 37 52 56 61 64 69 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 15:20 31/01/19 18:20 31/01/19 19:20 31/01/19 20:20 31/01/19 20:20 | 62 64 73 82 84 83 82 84 83 |
| 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 21/01/19 21:00 21/01/19 22:00 21/01/19 23:00 22/01/19 00:00 | 81 100 109 92 87 109 105 100 83 | 25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00 25/01/19 17:00 25/01/19 19:00 25/01/19 20:00 25/01/19 21:00 | 45 40 30 52 56 61 64 69 73 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 16:20 31/01/19 17:20 31/01/19 17:20 31/01/19 19:20 31/01/19 20:20 31/01/19 21:20 31/01/19 22:20 | 62 62 64 73 82 84 83 82 84 78 |
| 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 20:00 21/01/19 20:00 21/01/19 22:00 21/01/19 23:00 22/01/19 00:00 22/01/19 01:00 | 81 100 109 92 87 109 105 100 83 79 | 25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 17:00 25/01/19 18:00 25/01/19 19:00 25/01/19 20:00 25/01/19 21:00 25/01/19 22:00 | 45 40 30 37 52 56 61 64 69 73 80 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 16:20 31/01/19 17:20 31/01/19 19:20 31/01/19 20:20 31/01/19 21:20 31/01/19 22:20 | 62 62 64 73 82 84 83 82 84 78 75 |
| 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 21/01/19 19:00 21/01/19 20:00 21/01/19 20:00 21/01/19 20:00 21/01/19 20:00 22/01/19 01:00 22/01/19 02:00 | 81 100 109 92 87 109 105 100 83 79 79 | 25/01/19 12:00 25/01/19 13:00 25/01/19 14:00 25/01/19 15:00 25/01/19 16:00 25/01/19 18:00 25/01/19 19:00 25/01/19 19:00 25/01/19 20:00 25/01/19 22:00 25/01/19 22:00 | 45 40 30 37 52 56 61 64 69 73 80 81 | 31/01/19 13:20 31/01/19 14:20 31/01/19 15:20 31/01/19 15:20 31/01/19 15:20 31/01/19 19:20 31/01/19 19:20 31/01/19 20:20 31/01/19 20:20 31/01/19 22:20 31/01/19 22:20 01/02/19 00:20 | 62 62 64 73 82 84 83 82 84 78 75 78 |
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2. The Impact Air Monitoring Stations to be monitored should be selected based on the prevailing wind direction and their proximity to the active construction works.

3. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.772.

| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) |
|--|---|--|--|--|--|
| 03/01/19 10:00 | 77 | 09/01/19 11:00 | 57 | 15/01/19 10:30 | 62 |
| 03/01/19 11:00 | 77 | 09/01/19 12:00 | 63 | 15/01/19 11:30 | 62 |
| 03/01/19 12:00 | 76 | 09/01/19 13:00 | 67 | 15/01/19 12:30 | 63 |
| 3/01/19 13:00 | 76 | 09/01/19 14:00 | 78 | 15/01/19 13:30 | 66 |
| 03/01/19 14:00 | 79 | 09/01/19 15:00 | 81 | 15/01/19 14:30 | 67 |
| 3/01/19 15:00 | 77 | 09/01/19 16:00 | 69 | 15/01/19 15:30 | 67 |
| 3/01/19 16:00 | 76 | 09/01/19 17:00 | 67 | 15/01/19 16:30 | 69 |
| 3/01/19 17:00 | 79 | 09/01/19 18:00 | 76 | 15/01/19 17:30 | 71 |
| | 79 81 | 09/01/19 18:00 | 96 | | 71 73 |
| 3/01/19 18:00 | | | | 15/01/19 18:30 | |
| 03/01/19 19:00 | 81 | 09/01/19 20:00 | 104 | 15/01/19 19:30 | 76 |
| 03/01/19 20:00 | 77 | 09/01/19 21:00 | 76 | 15/01/19 20:30 | 74 |
| 03/01/19 21:00 | 77 | 09/01/19 22:00 | 74 | 15/01/19 21:30 | 73 |
| 03/01/19 22:00 | 74 | 09/01/19 23:00 | 70 | 15/01/19 22:30 | 67 |
| 03/01/19 23:00 | 74 | 10/01/19 00:00 | 61 | 15/01/19 23:30 | 66 |
| 04/01/19 00:00 | 72 | 10/01/19 01:00 | 65 | 16/01/19 00:30 | 64 |
| 04/01/19 01:00 | 76 | 10/01/19 02:00 | 80 | 16/01/19 01:30 | 64 |
| 04/01/19 02:00 | 74 | 10/01/19 03:00 | 83 | 16/01/19 02:30 | 59 |
| 04/01/19 03:00 | 76 | 10/01/19 04:00 | 94 | 16/01/19 03:30 | 57 |
| 04/01/19 04:00 | 77 | 10/01/19 05:00 | 81 | 16/01/19 04:30 | 56 |
| 04/01/19 05:00 | 77 | 10/01/19 06:00 | 78 | 16/01/19 05:30 | 56 |
| 04/01/19 06:00 | 79 | 10/01/19 07:00 | 70 | 16/01/19 06:30 | 60 |
| 04/01/19 07:00 | 81 | 10/01/19 08:00 | 69 | 16/01/19 07:30 | 64 |
| 04/01/19 07:00 | 76 | 10/01/19 09:00 | 65 | 16/01/19 08:30 | 66 |
| | | | | | |
| 04/01/19 09:00 | <u>81</u> 77 | 10/01/19 10:00 | 69 75 | 16/01/19 09:30 | 63 |
| Average | | Average | | Average | 65 |
| Action Level | 168 | Action Level | 168 | Action Level | 168 |
| Limit Level | 260 | Limit Level | 260 | Limit Level | 260 |
| Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) | Date and Time | TSP Concentration (µg/m ³) |
| 21/01/19 11:00 | 72 | 25/01/19 12:17 | | 31/01/19 09:30 | |
| 21/01/19 12:00 | | | 49 | 31/01/19/09:30 | 57 |
| <t10t1ta t5:00<="" td=""><td></td><td></td><td>49 33</td><td></td><td>57 62</td></t10t1ta> | | | 49 33 | | 57 62 |
| | 72 | 25/01/19 13:17 | 33 | 31/01/19 10:30 | 62 |
| 21/01/19 13:00 | 72 83 | 25/01/19 13:17 25/01/19 14:17 | 33 27 | 31/01/19 10:30 31/01/19 11:30 | 62 65 |
| 21/01/19 13:00 21/01/19 14:00 | 72 83 98 | 25/01/19 13:17 25/01/19 14:17 25/01/19 15:17 | 33 27 23 | 31/01/19 10:30 31/01/19 11:30 31/01/19 12:30 | 62 65 68 |
| 21/01/19 13:00 21/01/19 14:00 21/01/19 15:00 | 72 83 98 83 | 25/01/19 13:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17 | 33 27 23 35 | 31/01/19 10:30 31/01/19 11:30 31/01/19 12:30 31/01/19 13:30 | 62 65 68 66 |
| 21/01/19 13:00 21/01/19 14:00 21/01/19 15:00 21/01/19 16:00 | 72 83 98 83 83 | 25/01/19 13:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17 25/01/19 17:17 | 33 27 23 35 48 | 31/01/19 10:30 31/01/19 11:30 31/01/19 12:30 31/01/19 13:30 31/01/19 14:30 | 62 65 68 66 69 |
| 21/01/19 13:00 21/01/19 14:00 21/01/19 15:00 21/01/19 16:00 21/01/19 17:00 | 72 83 98 83 83 83 94 | 25/01/19 13:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17 25/01/19 17:17 25/01/19 17:17 | 33 27 23 35 48 53 | $\begin{array}{c} 31/01/19\ 10:30\\ 31/01/19\ 11:30\\ 31/01/19\ 12:30\\ 31/01/19\ 13:30\\ 31/01/19\ 14:30\\ 31/01/19\ 15:30\\ \end{array}$ | 62 65 68 66 69 62 |
| 21/01/19 13:00 21/01/19 14:00 21/01/19 15:00 21/01/19 16:00 21/01/19 17:00 21/01/19 18:00 | 72 83 98 83 83 94 104 | 25/01/19 13:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17 25/01/19 17:17 25/01/19 18:17 25/01/19 19:17 | 33 27 23 35 48 53 64 | $\begin{array}{c} 31/01/19\ 10:30\\ 31/01/19\ 11:30\\ 31/01/19\ 12:30\\ 31/01/19\ 13:30\\ 31/01/19\ 14:30\\ 31/01/19\ 15:30\\ 31/01/19\ 15:30\\ 31/01/19\ 16:30\\ \end{array}$ | 62 65 68 66 69 62 63 |
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| 21/01/19 13:00 21/01/19 14:00 21/01/19 15:00 21/01/19 15:00 21/01/19 16:00 21/01/19 16:00 21/01/19 16:00 21/01/19 20:00 21/01/19 20:00 21/01/19 20:00 22/01/19 00:00 22/01/19 00:00 22/01/19 00:00 22/01/19 05:00 22/01/19 05:00 22/01/19 06:00 22/01/19 08:00 22/01/19 09:00 | 72 83 98 83 84 94 104 91 83 85 79 76 72 68 68 68 68 68 68 68 68 68 68 68 68 68 | 25/01/19 13:17 25/01/19 14:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17 25/01/19 18:17 25/01/19 19:17 25/01/19 20:17 25/01/19 20:17 25/01/19 22:17 25/01/19 22:17 26/01/19 00:17 26/01/19 01:17 26/01/19 03:17 26/01/19 04:17 26/01/19 05:17 26/01/19 05:17 26/01/19 05:17 26/01/19 05:17 26/01/19 05:17 26/01/19 05:17 26/01/19 05:17 26/01/19 07:17 26/01/19 09:17 26/01/19 09:17 | 33 27 23 35 48 53 64 67 72 69 77 79 85 89 102 102 102 86 64 57 59 44 44 | $\begin{array}{c} 31/01/19\ 10:30\\ 31/01/19\ 11:30\\ 31/01/19\ 12:30\\ 31/01/19\ 13:30\\ 31/01/19\ 13:30\\ 31/01/19\ 13:30\\ 31/01/19\ 15:30\\ 31/01/19\ 16:30\\ 31/01/19\ 16:30\\ 31/01/19\ 16:30\\ 31/01/19\ 16:30\\ 31/01/19\ 20:30\\ 31/01/19\ 20:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 01/02/19\ 00:30\\$ | 62 65 68 69 62 63 69 71 65 64 62 58 53 52 50 52 49 51 57 59 56 |
| 21/01/19 13:00 21/01/19 14:00 21/01/19 15:00 21/01/19 15:00 21/01/19 16:00 21/01/19 16:00 21/01/19 16:00 21/01/19 19:00 21/01/19 20:00 21/01/19 21:00 21/01/19 22:00 21/01/19 22:00 21/01/19 01:00 22/01/19 01:00 22/01/19 03:00 22/01/19 05:00 22/01/19 05:00 22/01/19 05:00 22/01/19 06:00 22/01/19 08:00 22/01/19 09:00 22/01/19 09:00 22/01/19 09:00 22/01/19 09:00 22/01/19 09:00 | 72 83 98 83 83 94 104 91 83 83 85 79 76 72 68 68 68 64 65 75 79 83 83 83 83 83 83 83 83 83 83 | 25/01/19 13:17 25/01/19 14:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17 25/01/19 19:17 25/01/19 19:17 25/01/19 20:17 25/01/19 21:17 25/01/19 22:17 25/01/19 22:17 26/01/19 00:17 26/01/19 01:17 26/01/19 01:17 26/01/19 05:17 26/01/19 05:17 26/01/19 06:17 26/01/19 06:17 26/01/19 06:17 26/01/19 06:17 26/01/19 09:17 26/01/19 09:17 26/01/19 09:17 26/01/19 09:17 26/01/19 01:17 26/01/19 10:17 | 33 27 23 35 48 53 64 67 72 69 77 79 85 85 89 102 102 102 102 86 64 57 59 44 49 47 | $\begin{array}{c} 31/01/19\ 10:30\\ 31/01/19\ 11:30\\ 31/01/19\ 11:30\\ 31/01/19\ 12:30\\ 31/01/19\ 13:30\\ 31/01/19\ 13:30\\ 31/01/19\ 13:30\\ 31/01/19\ 16:30\\ 31/01/19\ 16:30\\ 31/01/19\ 18:30\\ 31/01/19\ 18:30\\ 31/01/19\ 20:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 01/02/19\ 00:30\\ 01/02/19\ 00:30\\ 01/02/19\ 00:30\\ 01/02/19\ 00:30\\ 01/02/19\ 03:30\\ 01/02/19\ 03:30\\ 01/02/19\ 05:30\\ 01/02/19\ 07:30\\ 01/02/19\ 07:30\\ 01/02/19\ 07:30\\ 01/02/19\ 07:30\\ 01/02/19\ 08:30\\ \end{array}$ | 62 65 68 69 62 63 69 71 65 64 62 58 53 52 50 52 50 52 50 52 50 52 50 52 50 52 50 52 50 52 50 52 50 52 53 52 50 52 53 52 50 52 53 52 50 52 53 53 52 53 52 53 52 53 52 53 52 53 53 53 52 53 53 52 53 53 52 53 53 53 53 53 53 53 53 53 53 53 53 53 |
| 21/01/19 13:00 21/01/19 14:00 21/01/19 15:00 21/01/19 15:00 21/01/19 16:00 21/01/19 16:00 21/01/19 16:00 21/01/19 19:00 21/01/19 20:00 21/01/19 20:00 22/01/19 00:00 22/01/19 00:00 22/01/19 00:00 22/01/19 06:00 22/01/19 07:00 22/01/19 07:00 | 72 83 98 83 83 94 104 91 83 85 79 76 72 68 68 68 68 68 68 68 68 68 68 68 83 83 79 79 76 72 83 83 83 83 83 83 83 83 83 83 83 83 83 | 25/01/19 13:17 25/01/19 14:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17 25/01/19 18:17 25/01/19 20:17 25/01/19 20:17 25/01/19 22:17 25/01/19 23:17 26/01/19 00:17 26/01/19 00:17 26/01/19 03:17 26/01/19 04:17 26/01/19 06:17 26/01/19 06:17 26/01/19 06:17 26/01/19 06:17 26/01/19 00:17 26/01/19 00:17 26/01/19 00:17 26/01/19 00:17 26/01/19 00:17 26/01/19 00:17 26/01/19 00:17 26/01/19 10:17 26/01/19 10:17 26/01/19 11:17 | 33 27 23 35 48 53 64 67 72 69 77 79 85 89 102 102 102 102 86 64 57 59 44 49 47 62 | 31/01/19 10:30 31/01/19 11:30 31/01/19 12:30 31/01/19 13:30 31/01/19 13:30 31/01/19 15:30 31/01/19 16:30 31/01/19 17:30 31/01/19 17:30 31/01/19 17:30 31/01/19 20:30 31/01/19 20:30 31/01/19 20:30 01/02/19 00:30 01/02/19 00:30 | 62 65 68 69 62 63 69 71 65 64 62 58 53 52 50 52 50 52 49 51 57 59 56 58 59 56 60 |
| 21/01/19 13:00 21/01/19 14:00 21/01/19 15:00 21/01/19 15:00 21/01/19 16:00 21/01/19 16:00 21/01/19 16:00 21/01/19 20:00 21/01/19 20:00 21/01/19 20:00 22/01/19 01:00 22/01/19 01:00 22/01/19 01:00 22/01/19 05:00 22/01/19 05:00 | 72 83 98 83 83 94 104 91 83 83 85 79 76 72 68 68 68 64 65 75 79 83 83 83 83 83 83 83 83 83 83 | 25/01/19 13:17 25/01/19 14:17 25/01/19 14:17 25/01/19 15:17 25/01/19 16:17 25/01/19 19:17 25/01/19 19:17 25/01/19 20:17 25/01/19 21:17 25/01/19 22:17 25/01/19 22:17 26/01/19 00:17 26/01/19 01:17 26/01/19 01:17 26/01/19 05:17 26/01/19 05:17 26/01/19 06:17 26/01/19 06:17 26/01/19 06:17 26/01/19 06:17 26/01/19 09:17 26/01/19 09:17 26/01/19 09:17 26/01/19 09:17 26/01/19 01:17 26/01/19 10:17 | 33 27 23 35 48 53 64 67 72 69 77 79 85 85 89 102 102 102 102 86 64 57 59 44 49 47 | $\begin{array}{c} 31/01/19\ 10:30\\ 31/01/19\ 11:30\\ 31/01/19\ 11:30\\ 31/01/19\ 12:30\\ 31/01/19\ 13:30\\ 31/01/19\ 13:30\\ 31/01/19\ 13:30\\ 31/01/19\ 16:30\\ 31/01/19\ 16:30\\ 31/01/19\ 18:30\\ 31/01/19\ 18:30\\ 31/01/19\ 20:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 31/01/19\ 22:30\\ 01/02/19\ 00:30\\ 01/02/19\ 00:30\\ 01/02/19\ 00:30\\ 01/02/19\ 00:30\\ 01/02/19\ 03:30\\ 01/02/19\ 03:30\\ 01/02/19\ 05:30\\ 01/02/19\ 07:30\\ 01/02/19\ 07:30\\ 01/02/19\ 07:30\\ 01/02/19\ 07:30\\ 01/02/19\ 08:30\\ \end{array}$ | 62 65 68 69 62 63 69 71 65 64 62 58 53 52 50 52 50 52 50 52 50 52 50 52 50 52 50 52 50 52 50 52 50 52 53 52 50 52 53 52 50 52 53 52 50 52 53 53 52 53 52 53 52 53 52 53 52 53 53 53 52 53 53 52 53 53 52 53 53 53 53 53 53 53 53 53 53 53 53 53 |

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. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.793.

| Date and Time | TSP Concentration (µg/m ³) |
|----------------|--|
| 04/02/19 11:40 | 48 |
| 04/02/19 12:40 | 42 |
| 04/02/19 13:40 | 46 |
| 04/02/19 14:40 | 44 |
| 04/02/19 15:40 | 46 |
| 04/02/19 16:40 | 48 |
| 04/02/19 17:40 | 56 |
| 04/02/19 18:40 | 54 |
| 04/02/19 19:40 | 56 |
| 04/02/19 20:40 | 61 |
| 04/02/19 21:40 | 65 |
| 04/02/19 22:40 | 58 |
| 04/02/19 23:40 | 56 |
| 05/02/19 00:40 | 51 |
| 05/02/19 01:40 | 44 |
| 05/02/19 02:40 | 41 |
| 05/02/19 03:40 | 38 |
| 05/02/19 04:40 | 42 |
| 05/02/19 05:40 | 46 |
| 05/02/19 06:40 | 41 |
| 05/02/19 07:40 | 38 |
| 05/02/19 08:40 | 41 |
| 05/02/19 09:40 | 42 |
| 05/02/19 10:40 | 48 |
| Average | 48 |
| Action Level | 174 |
| Limit Level | 260 |

| Date and Time | TSP Concentration (µg/m ³) |
|----------------|--|
| 08/02/19 10:11 | 49 |
| 08/02/19 11:11 | 52 |
| 08/02/19 12:11 | 53 |
| 08/02/19 13:11 | 57 |
| 08/02/19 14:11 | 56 |
| 08/02/19 15:11 | 55 |
| 08/02/19 16:11 | 49 |
| 08/02/19 17:11 | 56 |
| 08/02/19 18:11 | 54 |
| 08/02/19 19:11 | 52 |
| 08/02/19 20:11 | 56 |
| 08/02/19 21:11 | 51 |
| 08/02/19 22:11 | 58 |
| 08/02/19 23:11 | 58 |
| 09/02/19 00:11 | 55 |
| 09/02/19 01:11 | 50 |
| 09/02/19 02:11 | 48 |
| 09/02/19 03:11 | 46 |
| 09/02/19 04:11 | 46 |
| 09/02/19 05:11 | 44 |
| 09/02/19 06:11 | 46 |
| 09/02/19 07:11 | 45 |
| 09/02/19 08:11 | 45 |
| 09/02/19 09:11 | 44 |
| Average | 51 |
| Action Level | 174 |
| Limit Level | 260 |
| | |

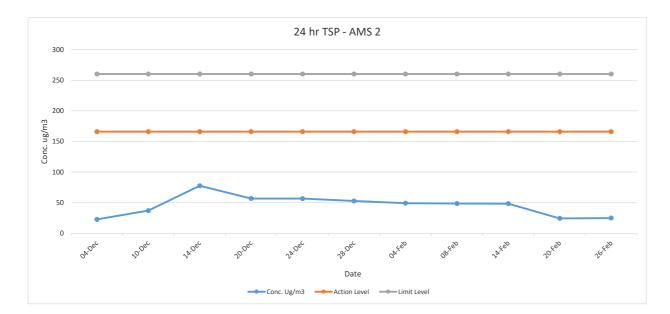
| Date and Time | TSP Concentration (μg/m ³) |
|----------------|--|
| 14/02/19 10:14 | 52 |
| 14/02/19 11:14 | 54 |
| 14/02/19 12:14 | 56 |
| 14/02/19 13:14 | 56 |
| 14/02/19 14:14 | 56 |
| 14/02/19 15:14 | 54 |
| 14/02/19 16:14 | 58 |
| 14/02/19 17:14 | 62 |
| 14/02/19 18:14 | 58 |
| 14/02/19 19:14 | 62 |
| 14/02/19 20:14 | 64 |
| 14/02/19 21:14 | 54 |
| 14/02/19 22:14 | 52 |
| 14/02/19 23:14 | 48 |
| 15/02/19 00:14 | 50 |
| 15/02/19 01:14 | 46 |
| 15/02/19 02:14 | 42 |
| 15/02/19 03:14 | 46 |
| 15/02/19 04:14 | 44 |
| 15/02/19 05:14 | 48 |
| 15/02/19 06:14 | 50 |
| 15/02/19 07:14 | 52 |
| 15/02/19 08:14 | 54 |
| 15/02/19 09:14 | 54 |
| Average | 53 |
| Action Level | 174 |
| Limit Level | 260 |

| Date and Time | TSP Concentration (µg/m³) | Date and Time | TSP Concentration (µg/m ³) |
|----------------|---------------------------|----------------|--|
| 20/02/19 11:52 | 41 | 26/02/19 12:17 | 66 |
| 20/02/19 12:52 | 26 | 26/02/19 13:17 | 57 |
| 20/02/19 13:52 | 23 | 26/02/19 14:17 | 59 |
| 20/02/19 14:52 | 23 | 26/02/19 15:17 | 64 |
| 20/02/19 15:52 | 24 | 26/02/19 16:17 | 65 |
| 20/02/19 16:52 | 25 | 26/02/19 17:17 | 73 |
| 20/02/19 17:52 | 36 | 26/02/19 18:17 | 78 |
| 20/02/19 18:52 | 44 | 26/02/19 19:17 | 86 |
| 20/02/19 19:52 | 52 | 26/02/19 20:17 | 84 |
| 20/02/19 20:52 | 65 | 26/02/19 21:17 | 79 |
| 20/02/19 21:52 | 85 | 26/02/19 22:17 | 84 |
| 20/02/19 22:52 | 78 | 26/02/19 23:17 | 77 |
| 20/02/19 23:52 | 58 | 27/02/19 00:17 | 53 |
| 21/02/19 00:52 | 54 | 27/02/19 01:17 | 50 |
| 21/02/19 01:52 | 45 | 27/02/19 02:17 | 48 |
| 21/02/19 02:52 | 40 | 27/02/19 03:17 | 47 |
| 21/02/19 03:52 | 33 | 27/02/19 04:17 | 42 |
| 21/02/19 04:52 | 31 | 27/02/19 05:17 | 49 |
| 21/02/19 05:52 | 26 | 27/02/19 06:17 | 44 |
| 21/02/19 06:52 | 27 | 27/02/19 07:17 | 48 |
| 21/02/19 07:52 | 39 | 27/02/19 08:17 | 53 |
| 21/02/19 08:52 | 40 | 27/02/19 09:17 | 56 |
| 21/02/19 09:52 | 42 | 27/02/19 10:17 | 60 |
| 21/02/19 10:52 | 41 | 27/02/19 11:17 | 62 |
| Average | 42 | Average | 62 |
| Action Level | 174 | Action Level | 174 |
| Limit Level | 260 | Limit Level | 260 |

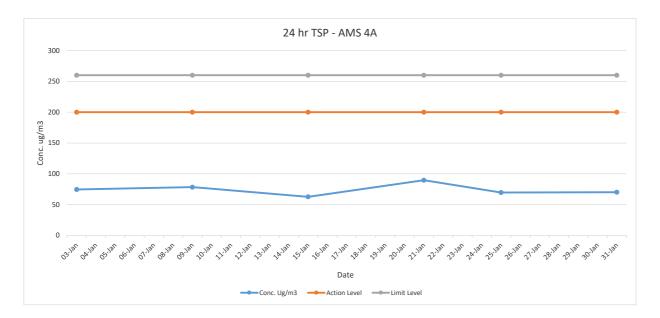
Remark 1. Actual monitoring may be subjected to change due to any safety concern or adverse weather condition.

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.

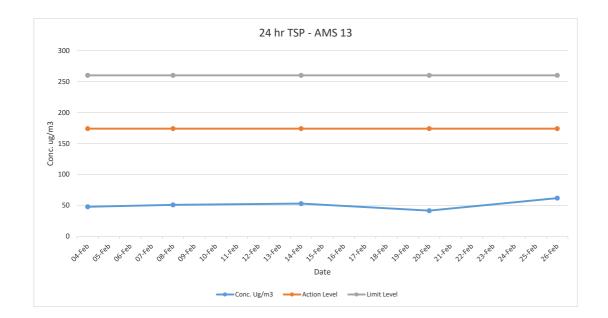
3. K-factor for transforming the result of portable laser particle photometer monitor to 24-hr TSP High Volume Sampler is 1.749.











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

NMS 1 Scenery Court

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Uni | t: dB(A) 30 Min | s | | (m/s) |
| 05-Dec-18 | 10:04 | 63.5 | 62.5 | 64.5 | | 63.5 | Cloudy | 0.9 |
| 11-Dec-18 | 11:11 | 64.4 | 63.0 | 66.0 | | 64.4 | Fine | 0.8 |
| 15-Dec-18 | 08:30 | 63.3 | 62.0 | 64.5 | | 63.3 | Fine | 0.6 |
| 21-Dec-18 | 09:00 | 61.5 | 59.5 | 63.0 | | 61.5 | Fine | 1.1 |
| 28-Dec-18 | 09:00 | 69.7 | 69.0 | 71.0 | | 69.7 | Fine | 0.8 |
| 03-Jan-19 | 10:15 | 72.3 | 69.0 | 74.0 | | 72.3 | Fine | 1.1 |
| 09-Jan-19 | 08:30 | 65.5 | 64.0 | 67.5 | | 65.5 | Fine | 0.2 |
| 15-Jan-19 | 09:30 | 68.0 | 66.5 | 70.5 | 75 | 68.0 | Cloudy | 1.0 |
| 21-Jan-19 | 15:56 | 65.0 | 62.0 | 66.0 | 75 | 65.0 | Fine | 1.4 |
| 28-Jan-19 | 12:05 | 63.1 | 60.5 | 64.0 | | 63.1 | Fine | 0.6 |
| 01-Feb-19 | 08:30 | 68.2 | 62.5 | 71.0 | | 68.2 | Fine | 1.2 |
| 08-Feb-19 | 09:00 | 68.4 | 65.0 | 71.0 | | 68.4 | Fine | 0.8 |
| 14-Feb-19 | 09:00 | 67.6 | 64.0 | 70.5 |] | 67.6 | Fine | 1.6 |
| 20-Feb-19 | 08:30 | 66.8 | 61.0 | 69.0 | | 66.8 | Fine | 1.3 |
| 26-Feb-19 | 08:00 | 66.3 | 64.5 | 69.0 | 1 | 66.3 | Sunny | 1.7 |

NMS 2 Villa Le Parc

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|-------------------------|-----------------|-----------------|-------------|--------------------------|--------------------------|--------|-------|
| Date | Date Start Time Leq L90 | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed | |
| | | | | Unit | :: dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 12:57 | 58.2 | 52.5 | 59.0 | | 58.2 | Sunny | 1.2 |
| 10-Dec-18 | 11:00 | 55.0 | 52.5 | 57.2 | | 55.0 | Sunny | 2.1 |
| 14-Dec-18 | 09:00 | 56.0 | 51.0 | 57.5 | | 56.0 | Fine | 1.3 |
| 20-Dec-18 | 10:26 | 56.0 | 51.3 | 57.0 | | 56.0 | Fine | 0.4 |
| 27-Dec-18 | 14:30 | 61.0 | 54.5 | 62.0 | | 61.0 | Fine | 0.6 |
| 03-Jan-19 | 09:30 | 61.0 | 54.5 | 63.0 | | 61.0 | Fine | 0.8 |
| 09-Jan-19 | 14:00 | 54.0 | 51.5 | 57.0 | | 54.0 | Fine | 0.3 |
| 15-Jan-19 | 10:05 | 60.5 | 54.5 | 62.0 | 75 | 60.5 | Cloudy | 1.1 |
| 21-Jan-19 | 16:38 | 56.4 | 52.0 | 58.0 | | 56.4 | Fine | 0.2 |
| 28-Jan-19 | 10:37 | 57.5 | 51.0 | 60.5 | | 57.5 | Fine | 0.9 |
| 01-Feb-19 | 13:00 | 58.5 | 51.5 | 60.0 | | 58.5 | Fine | 1.2 |
| 08-Feb-19 | 09:45 | 59.5 | 53.5 | 61.0 | | 59.5 | Fine | 1.2 |
| 14-Feb-19 | 14:15 | 58.7 | 51.5 | 60.0 | | 58.7 | Fine | 1.1 |
| 20-Feb-19 | 13:00 | 58.0 | 52.5 | 59.5 | | 58.0 | Fine | 1.1 |
| 26-Feb-19 | 13:00 | 59.5 | 51.0 | 60.5 | | 59.5 | Sunny | 1.4 |

NMS 3 Hilton Plaza

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|-----------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Date Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | :: dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 14:15 | 67.2 | 65.0 | 69.0 | | 67.2 | Sunny | 1.0 |
| 10-Dec-18 | 13:00 | 68.0 | 65.5 | 70.0 | | 68.0 | Sunny | 1.9 |
| 14-Dec-18 | 09:40 | 64.7 | 61.5 | 67.0 | | 64.7 | Fine | 1.3 |
| 20-Dec-18 | 11:11 | 65.9 | 63.0 | 68.0 | | 65.9 | Fine | 0.4 |
| 27-Dec-18 | 09:05 | 66.4 | 63.5 | 68.5 | | 66.4 | Fine | 0.5 |
| 03-Jan-19 | 10:50 | 63.0 | 62.5 | 66.0 | | 63.0 | Fine | 0.0 |
| 09-Jan-19 | 09:15 | 64.4 | 62.5 | 66.0 | | 64.4 | Fine | 0.3 |
| 15-Jan-19 | 10:40 | 63.0 | 61.0 | 66.5 | 75 | 63.0 | Cloudy | 1.2 |
| 21-Jan-19 | 15:04 | 67.4 | 63.8 | 70.4 | | 67.4 | Fine | 0.8 |
| 28-Jan-19 | 12:00 | 65.3 | 62.5 | 67.5 | | 65.3 | Fine | 0.5 |
| 01-Feb-19 | 09:10 | 70.2 | 63.0 | 72.0 | | 70.2 | Fine | 1.2 |
| 08-Feb-19 | 13:40 | 68.5 | 65.5 | 71.0 | | 68.5 | Fine | 0.8 |
| 14-Feb-19 | 09:40 | 66.8 | 64.5 | 69.5 | | 66.8 | Fine | 1.2 |
| 20-Feb-19 | 09:05 | 66.2 | 60.0 | 69.5 | | 66.2 | Fine | 1.4 |
| 26-Feb-19 | 08:35 | 64.0 | 61.5 | 66.5 | | 64.0 | Sunny | 1.2 |

NMS 4 Tin Liu

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | : dB(A) 30 Min | s | | (m/s) |
| 05-Dec-18 | 10:07 | 66.0 | 63.0 | 70.5 | | 66.0 | Cloudy | 1.0 |
| 11-Dec-18 | 08:00 | 64.1 | 57.5 | 68.0 | | 64.1 | Fine | 1.4 |
| 15-Dec-18 | 09:20 | 65.1 | 61.0 | 66.5 | | 65.1 | Fine | 0.5 |
| 21-Dec-18 | 09:40 | 61.0 | 59.0 | 63.5 | | 61.0 | Fine | 0.8 |
| 28-Dec-18 | 09:40 | 66.0 | 59.5 | 70.0 | | 66.0 | Fine | 1.1 |
| 03-Jan-19 | 11:35 | 64.0 | 59.5 | 67.0 | | 64.0 | Fine | 1.1 |
| 09-Jan-19 | 14:45 | 66.9 | 63.5 | 68.5 | | 66.9 | Fine | 0.3 |
| 15-Jan-19 | 11:20 | 64.0 | 59.0 | 68.0 | 75 | 64.0 | Cloudy | 1.4 |
| 21-Jan-19 | 12:54 | 66.3 | 62.0 | 69.5 | 75 | 66.3 | Fine | 0.3 |
| 28-Jan-19 | 09:30 | 66.8 | 61.5 | 70.0 | | 66.8 | Fine | 0.5 |
| 01-Feb-19 | 11:35 | 71.6 | 66.5 | 73.0 | | 71.6 | Fine | 1.4 |
| 08-Feb-19 | 10:20 | 71.6 | 67.5 | 74.0 | | 71.6 | Fine | 1.1 |
| 14-Feb-19 | 13:35 | 71.4 | 67.5 | 73.0 | | 71.4 | Fine | 1.6 |
| 20-Feb-19 | 11:55 | 71.4 | 66.0 | 73.0 | | 71.4 | Fine | 1.4 |
| 26-Feb-19 | 11:35 | 71.4 | 62.0 | 73.0 | | 71.4 | Sunny | 1.4 |

NMS 5A Wai Wah Centre

| Date | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | t: dB(A) 30 Min | S | | (m/s) |
| 04-Dec-18 | 13:10 | 75.6 | 70.5 | 78.0 | | 71.1* | Sunny | 1.2 |
| 10-Dec-18 | 13:35 | 75.6 | 71.5 | 78.0 | | 71.1* | Sunny | 1.6 |
| 14-Dec-18 | 09:00 | 73.5 | 68.5 | 75.5 | | 73.5 | Fine | 1.1 |
| 20-Dec-18 | 13:00 | 75.0 | 71.0 | 78.0 | | 75.0 | Fine | 1.0 |
| 27-Dec-18 | 15:10 | 73.5 | 69.0 | 76.0 | | 73.5 | Fine | 1.0 |
| 03-Jan-19 | 14:00 | 72.3 | 68.0 | 75.5 | | 72.3 | Fine | 1.1 |
| 09-Jan-19 | 10:00 | 76.6 | 71.5 | 78.5 | | 73.5* | Fine | 0.2 |
| 15-Jan-19 | 13:00 | 70.5 | 66.5 | 73.0 | 75 | 70.5 | Cloudy | 1.2 |
| 21-Jan-19 | 13:33 | 75.3 | 69.5 | 78.0 | 75 | 70.2* | Fine | 0.6 |
| 28-Jan-19 | 10:58 | 75.0 | 70.5 | 78.0 | | 75.0 | Fine | 0.7 |
| 01-Feb-19 | 09:45 | 69.2 | 64.0 | 73.0 | | 69.2 | Fine | 1.3 |
| 08-Feb-19 | 13:00 | 73.1 | 69.0 | 73.5 | | 73.1 | Fine | 1.3 |
| 14-Feb-19 | 10:20 | 72.6 | 67.5 | 73.5 | | 72.6 | Fine | 1.1 |
| 20-Feb-19 | 09:40 | 68.0 | 66.5 | 71.0 | | 68.0 | Fine | 1.1 |
| 26-Feb-19 | 09:10 | 73.4 | 68.0 | 76.0 | 1 | 73.4 | Sunny | 1.4 |

 20-rec-19
 09.10
 73.4
 06.0
 76.0
 73.4
 Stimp
 1.4

 *Note: Since the measured noise level was greater than the limit level, construction noise level (CNL) was appplied on 4/12/2018, 10/12/2018, 9/1/2019 and 21/1/2019, where Calculated CNL = Measured Noise Level during operation – Baseline (73.7 dB(A)).

NMS 6A Wai Wah Centre

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | :: dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 13:13 | 74.1 | 70.5 | 76.0 | | 74.1 | Sunny | 1.0 |
| 10-Dec-18 | 14:10 | 74.0 | 71.5 | 78.0 | | 74.0 | Sunny | 1.8 |
| 14-Dec-18 | 09:35 | 71.5 | 66.0 | 72.5 | | 71.5 | Fine | 1.1 |
| 20-Dec-18 | 13:30 | 74.0 | 70.5 | 77.5 | | 74.0 | Fine | 1.0 |
| 27-Dec-18 | 15:45 | 73.0 | 69.5 | 75.0 | | 73.0 | Fine | 1.1 |
| 03-Jan-19 | 14:40 | 71.4 | 67.5 | 74.0 | | 71.4 | Fine | 1.2 |
| 09-Jan-19 | 10:37 | 73.4 | 69.5 | 75.5 | | 73.4 | Fine | 0.3 |
| 15-Jan-19 | 13:35 | 72.0 | 69.0 | 74.5 | 75 | 72.0 | Cloudy | 0.0 |
| 21-Jan-19 | 14:15 | 73.0 | 69.0 | 75.5 | 75 | 73.0 | Fine | 0.8 |
| 28-Jan-19 | 11:49 | 73.3 | 68.5 | 75.5 | | 73.3 | Fine | 0.7 |
| 01-Feb-19 | 10:20 | 68.5 | 63.0 | 72.0 | | 68.5 | Fine | 0.8 |
| 08-Feb-19 | 11:35 | 72.4 | 68.0 | 74.5 | | 72.4 | Fine | 1.2 |
| 14-Feb-19 | 10:55 | 71.2 | 66.5 | 73.0 | | 71.2 | Fine | 1.4 |
| 20-Feb-19 | 10:15 | 67.4 | 65.5 | 69.5 | | 67.4 | Fine | 1.4 |
| 26-Feb-19 | 09:45 | 72.5 | 67.5 | 76.0 | | 72.5 | Sunny | 1.2 |

NMS 7 Tin Liu

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | Weather | Wind |
|-----------|------------|-----------------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | | Speed |
| | | | | Uni | t: dB(A) 30 Min | IS | | (m/s) |
| 05-Dec-18 | 10:38 | 66.3 | 64.0 | 67.5 | | 66.3 | Cloudy | 1.2 |
| 11-Dec-18 | 08:10 | 74.0 | 68.0 | 76.0 | | 74.0 | Fine | 1.4 |
| 15-Dec-18 | 10:00 | 63.8 | 61.5 | 65.0 | | 63.8 | Fine | 0.4 |
| 21-Dec-18 | 10:15 | 74.1 | 69.0 | 76.0 | | 74.1 | Fine | 0.5 |
| 28-Dec-18 | 10:15 | 74.0 | 69.0 | 76.5 | | 74.0 | Fine | 1.2 |
| 03-Jan-19 | 12:10 | 73.0 | 68.5 | 76.0 | | 73.0 | Fine | 1.2 |
| 09-Jan-19 | 15:25 | 64.1 | 62.5 | 66.5 | | 64.1 | Fine | 0.2 |
| 15-Jan-19 | 11:55 | 71.0 | 66.5 | 73.0 | 75 | 71.0 | Cloudy | 1.1 |
| 21-Jan-19 | 12:19 | 64.7 | 62.0 | 66.0 | 15 | 64.7 | Fine | 0.4 |
| 28-Jan-19 | 09:45 | 65.7 | 62.5 | 66.0 | | 65.7 | Fine | 0.5 |
| 01-Feb-19 | 11:00 | 74.2 | 69.0 | 77.0 | | 74.2 | Fine | 1.2 |
| 08-Feb-19 | 10:55 | 73.5 | 68.0 | 76.0 | | 73.5 | Fine | 1.2 |
| 14-Feb-19 | 13:00 | 74.1 | 69.5 | 77.5 |] | 74.1 | Fine | 1.4 |
| 20-Feb-19 | 11:20 | 73.2 | 69.5 | 77.0 |] | 73.2 | Fine | 1.1 |
| 26-Feb-19 | 11:00 | 74.2 | 65.5 | 78.0 |] | 74.2 | 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 | Linin Level | Construction Noise Level | Weather | Speed |
| | | | | Uni | t: dB(A) 30 Min | s | | (m/s) |
| 05-Dec-18 | 11:02 | 67.4 | 66.5 | 68.5 | | 67.4 | Cloudy | 1.1 |
| 11-Dec-18 | 15:17 | 65.0 | 63.5 | 67.5 | | 65.0 | Fine | 1.0 |
| 15-Dec-18 | 12:23 | 65.5 | 63.0 | 68.0 | | 65.5 | Fine | 1.2 |
| 21-Dec-18 | 10:50 | 69.0 | 66.5 | 72.0 | | 69.0 | Fine | 0.8 |
| 28-Dec-18 | 10:55 | 73.0 | 71.5 | 73.5 | | 73.0 | Fine | 0.8 |
| 04-Jan-19 | 08:31 | 69.9 | 67.5 | 73.0 | | 69.9 | Cloudy | 0.9 |
| 10-Jan-19 | 11:45 | 70.2 | 67.8 | 73.4 | 75 | 70.2 | Fine | 0.8 |
| 16-Jan-19 | 15:13 | 72.0 | 70.5 | 74.0 | 75 | 72.0 | Cloudy | 1.2 |
| 22-Jan-19 | 14:30 | 67.2 | 64.0 | 70.0 | | 67.2 | Fine | 1.2 |
| 29-Jan-19 | 09:39 | 65.6 | 64.0 | 67.0 | | 65.6 | Fine | 0.6 |
| 04-Feb-19 | 09:02 | 65.5 | 63.0 | 67.0 | | 65.5 | Fine | 0.5 |
| 11-Feb-19 | 09:44 | 65.8 | 64.5 | 67.0 | | 65.8 | Fine | 0.4 |
| 18-Feb-19 | 08:30 | 68.6 | 64.5 | 71.0 | | 68.6 | Fine | 1.2 |
| 25-Feb-19 | 09:38 | 64.6 | 63.0 | 66.0 |] | 64.6 | Fine | 0.2 |

NMS 9 Lek Yuen Estate

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | :: dB(A) 30 Min | S | | (m/s) |
| 05-Dec-18 | 11:50 | 63.3 | 60.5 | 65.5 | | 63.3 | Cloudy | 1.1 |
| 11-Dec-18 | 09:45 | 63.0 | 58.5 | 65.0 | | 63.0 | Fine | 1.3 |
| 15-Dec-18 | 08:31 | 61.8 | 59.0 | 63.5 | | 61.8 | Fine | 0.5 |
| 21-Dec-18 | 08:32 | 61.7 | 59.0 | 63.5 | | 61.7 | Fine | 0.5 |
| 28-Dec-18 | 08:30 | 62.4 | 58.5 | 65.0 | | 62.4 | Fine | 0.7 |
| 04-Jan-19 | 12:31 | 62.5 | 58.3 | 65.1 | | 62.5 | Cloudy | 0.7 |
| 10-Jan-19 | 11:12 | 67.0 | 59.5 | 72.0 | 75 | 67.0 | Fine | 0.8 |
| 16-Jan-19 | 09:30 | 70.6 | 68.5 | 74.0 | 75 | 70.6 | Cloudy | 1.2 |
| 22-Jan-19 | 09:00 | 70.6 | 66.0 | 73.0 | | 70.6 | Fine | 1.2 |
| 29-Jan-19 | 10:42 | 63.0 | 61.0 | 64.5 | | 63.0 | Fine | 0.6 |
| 04-Feb-19 | 09:38 | 64.1 | 58.5 | 65.5 | | 64.1 | Fine | 0.0 |
| 11-Feb-19 | 10:37 | 64.0 | 62.0 | 65.0 | | 64.0 | Fine | 0.3 |
| 18-Feb-19 | 09:45 | 68.2 | 62.0 | 70.5 | | 68.2 | Fine | 1.4 |
| 25-Feb-19 | 11:05 | 62.3 | 61.0 | 65.0 | | 62.3 | Fine | 0.3 |

NMS 10A Shatin Tsung Tsin School

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Uni | t: dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 10:16 | 65.7 | 62.5 | 67.0 | | 65.7 | Sunny | 0.5 |
| 10-Dec-18 | 09:00 | 58.8 | 55.0 | 61.0 | | 58.8 | Sunny | 2.0 |
| 14-Dec-18 | 14:00 | 64.3 | 62.5 | 65.5 | | 64.3 | Fine | 1.2 |
| 20-Dec-18 | 09:00 | 64.4 | 62.0 | 66.0 | | 64.4 | Fine | 1.2 |
| 27-Dec-18 | 15:20 | 63.5 | 58.0 | 67.0 | | 63.5 | Fine | 0.6 |
| 04-Jan-19 | 08:31 | 65.4 | 62.5 | 67.5 | | 65.4 | Cloudy | 0.1 |
| 10-Jan-19 | 08:32 | 66.8 | 64.0 | 68.5 | | 66.8 | Fine | 0.5 |
| 16-Jan-19 | 10:05 | 64.7 | 59.0 | 66.0 | 70 | 64.7 | Cloudy | 0.8 |
| 22-Jan-19 | 09:35 | 63.8 | 58.0 | 66.0 | | 63.8 | Fine | 0.8 |
| 29-Jan-19 | 11:40 | 64.1 | 62.0 | 65.5 | | 64.1 | Fine | 0.5 |
| 04-Feb-19 | 10:12 | 63.8 | 60.0 | 66.5 | | 63.8 | Fine | 0.0 |
| 11-Feb-19 | 11:14 | 65.2 | 60.5 | 68.0 | | 65.2 | Fine | 0.4 |
| 18-Feb-19 | 10:20 | 66.4 | 61.0 | 68.5 | | 66.4 | Fine | 1.4 |
| 25-Feb-19 | 11:50 | 64.9 | 63.0 | 65.0 |] | 64.9 | Fine | 0.3 |

NMS 11 Sheung Wo Che

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Uni | t: dB(A) 30 Min | s | | (m/s) |
| 04-Dec-18 | 15:52 | 64.4 | 53.0 | 64.5 | | 64.4 | Sunny | 1.2 |
| 10-Dec-18 | 10:06 | 65.0 | 63.0 | 65.5 | | 65.0 | Sunny | 1.4 |
| 14-Dec-18 | 10:15 | 71.1 | 61.5 | 73.0 | | 71.1 | Fine | 1.6 |
| 20-Dec-18 | 09:38 | 65.1 | 57.5 | 66.5 | | 65.1 | Fine | 0.7 |
| 27-Dec-18 | 08:30 | 60.2 | 54.0 | 63.5 | | 60.2 | Fine | 1.1 |
| 04-Jan-19 | 10:26 | 63.4 | 57.6 | 67.5 | | 63.4 | Cloudy | 0.6 |
| 10-Jan-19 | 09:04 | 66.3 | 64.5 | 68.0 | | 66.3 | Fine | 0.5 |
| 16-Jan-19 | 09:05 | 65.7 | 64.0 | 67.5 | 75 | 65.7 | Cloudy | 0.3 |
| 22-Jan-19 | 10:10 | 69.5 | 63.0 | 72.5 | | 69.5 | Fine | 1.2 |
| 29-Jan-19 | 09:34 | 66.2 | 62.0 | 69.5 | | 66.2 | Fine | 0.6 |
| 04-Feb-19 | 09:05 | 57.9 | 52.0 | 61.0 | | 57.9 | Fine | 0.0 |
| 11-Feb-19 | 12:53 | 60.6 | 52.5 | 62.0 | | 60.6 | Fine | 0.2 |
| 18-Feb-19 | 16:05 | 68.4 | 63.5 | 71.0 |] | 68.4 | Fine | 1.2 |
| 25-Feb-19 | 15:08 | 61.0 | 53.0 | 61.5 |] | 61.0 | Fine | 0.1 |

NMS 12 SKH Holy Spirit Primary School

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|----------------|---------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Constituction Noise Level | Weather | Speed |
| | | | | Unit | : dB(A) 30 Min | S | | (m/s) |
| 04-Dec-18 | 10:54 | 66.9 | 60.0 | 69.0 | | 66.9 | Sunny | 1.0 |
| 10-Dec-18 | 09:00 | 58.0 | 55.0 | 60.0 | | 58.0 | Sunny | 2.0 |
| 14-Dec-18 | 10:15 | 62.3 | 60.0 | 64.0 | 70 | 62.3 | Fine | 0.8 |
| 20-Dec-18 | 09:45 | 63.9 | 60.5 | 65.0 | | 63.9 | Fine | 1.2 |
| 27-Dec-18 | 10:07 | 61.9 | 53.0 | 63.0 | | 61.9 | Fine | 0.4 |
| 04-Jan-19 | 09:09 | 64.8 | 62.0 | 66.5 | 65 | 64.8 | Cloudy | 0.1 |
| 10-Jan-19 | 09:13 | 65.6 | 61.5 | 68.0 | | 65.6 | Fine | 0.7 |
| 16-Jan-19 | 10:45 | 63.9 | 57.5 | 66.0 | 70 | 63.9 | Cloudy | 1.2 |
| 22-Jan-19 | 10:45 | 64.5 | 59.0 | 66.0 | 70 | 64.5 | Fine | 1.1 |
| 29-Jan-19 | 13:20 | 61.0 | 58.5 | 62.5 | | 61.0 | Fine | 0.5 |
| 04-Feb-19 | 10:48 | 62.9 | 59.0 | 65.0 | | 62.9 | Fine | 0.3 |
| 11-Feb-19 | 13:21 | 59.0 | 56.0 | 61.5 | | 59.0 | Fine | 0.2 |
| 18-Feb-19 | 10:55 | 64.1 | 58.0 | 65.5 | | 64.1 | Fine | 1.1 |
| 25-Feb-19 | 12:37 | 62.3 | 59.0 | 63.0 | | 62.3 | Fine | 0.2 |

Note: According to the school schedule, there was an exam period from 4/1/2019 to 9/1/2019.

NMS 13 Lek Yuen Estate

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|---------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Constituction Noise Level | Weather | Speed |
| | | | | Unit | t: dB(A) 30 Min | S | | (m/s) |
| 05-Dec-18 | 15:28 | 62.9 | 60.0 | 65.0 | | 62.9 | Cloudy | 1.0 |
| 11-Dec-18 | 08:55 | 64.7 | 56.5 | 67.0 | | 64.7 | Fine | 1.4 |
| 15-Dec-18 | 09:10 | 60.5 | 56.5 | 63.0 | | 60.5 | Fine | 1.2 |
| 21-Dec-18 | 09:10 | 59.5 | 55.0 | 60.2 | | 59.5 | Fine | 0.4 |
| 28-Dec-18 | 09:02 | 59.0 | 56.5 | 60.5 | | 59.0 | Fine | 0.8 |
| 04-Jan-19 | 11:47 | 59.3 | 56.4 | 61.0 | | 59.3 | Cloudy | 0.2 |
| 10-Jan-19 | 10:36 | 64.6 | 61.0 | 66.0 | | 64.6 | Fine | 0.7 |
| 16-Jan-19 | 11:20 | 68.5 | 64.0 | 71.0 | 75 | 68.5 | Cloudy | 1.1 |
| 22-Jan-19 | 11:20 | 67.6 | 65.0 | 69.5 | | 67.6 | Fine | 1.3 |
| 29-Jan-19 | 14:23 | 61.1 | 58.0 | 63.5 | | 61.1 | Fine | 0.6 |
| 04-Feb-19 | 11:26 | 58.7 | 56.0 | 59.5 | | 58.7 | Fine | 0.6 |
| 11-Feb-19 | 14:18 | 60.5 | 55.2 | 68.0 | | 60.5 | Fine | 0.2 |
| 18-Feb-19 | 11:30 | 65.5 | 59.0 | 67.0 |] | 65.5 | Fine | 1.2 |
| 25-Feb-19 | 12:37 | 62.3 | 59.0 | 63.0 | | 62.3 | Fine | 0.2 |

NMS 14 Sheung Wo Che

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Linin Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | t: dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 16:26 | 66.8 | 60.0 | 69.0 | | 66.8 | Sunny | 1.1 |
| 10-Dec-18 | 10:46 | 67.2 | 62.0 | 69.5 | | 67.2 | Sunny | 1.4 |
| 14-Dec-18 | 09:15 | 70.9 | 67.0 | 73.5 | | 70.9 | Fine | 1.1 |
| 20-Dec-18 | 10:15 | 63.7 | 58.0 | 66.0 | | 63.7 | Fine | 0.5 |
| 27-Dec-18 | 09:07 | 63.1 | 57.5 | 67.5 | | 63.1 | Fine | 0.8 |
| 04-Jan-19 | 11:01 | 60.4 | 53.8 | 62.7 | | 60.4 | Cloudy | 0.6 |
| 10-Jan-19 | 09:40 | 64.0 | 58.0 | 66.0 | | 64.0 | Fine | 0.7 |
| 16-Jan-19 | 09:40 | 66.5 | 63.5 | 68.0 | 75 | 66.5 | Cloudy | 0.0 |
| 22-Jan-19 | 11:55 | 70.5 | 64.5 | 74.0 | | 70.5 | Fine | 1.1 |
| 29-Jan-19 | 10:22 | 71.4 | 62.5 | 74.5 | | 71.4 | Fine | 0.5 |
| 04-Feb-19 | 09:40 | 60.1 | 56.0 | 62.0 | | 60.1 | Fine | 0.0 |
| 11-Feb-19 | 12:18 | 60.4 | 56.5 | 62.0 | 1 | 60.4 | Fine | 0.2 |
| 18-Feb-19 | 15:30 | 66.7 | 59.0 | 69.0 | 1 | 66.7 | Fine | 1.1 |
| 25-Feb-19 | 15:51 | 61.0 | 57.0 | 62.5 | | 61.0 | Fine | 0.0 |

NMS 15 Ha Wo Che

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Uni | t: dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 15:55 | 64.3 | 57.5 | 66.0 | | 64.3 | Sunny | 1.0 |
| 10-Dec-18 | 10:40 | 67.7 | 62.5 | 72.0 | | 67.7 | Sunny | 1.3 |
| 14-Dec-18 | 11:00 | 67.6 | 64.0 | 65.5 | | 67.6 | Fine | 1.0 |
| 20-Dec-18 | 10:51 | 61.6 | 57.2 | 63.7 | | 61.6 | Fine | 1.0 |
| 27-Dec-18 | 09:42 | 68.1 | 62.0 | 72.0 | | 68.1 | Fine | 0.7 |
| 03-Jan-19 | 15:15 | 66.5 | 64.0 | 68.0 | | 66.5 | Fine | 0.8 |
| 09-Jan-19 | 08:30 | 67.5 | 63.5 | 70.5 | | 67.5 | Fine | 0.3 |
| 15-Jan-19 | 00:00 | 68.5 | 66.0 | 71.0 | 75 | 68.5 | Cloudy | 1.1 |
| 21-Jan-19 | 09:30 | 66.8 | 62.0 | 69.5 | | 66.8 | Fine | 0.5 |
| 28-Jan-19 | 13:30 | 64.4 | 62.0 | 65.0 | | 64.4 | Fine | 0.4 |
| 01-Feb-19 | 14:55 | 66.5 | 61.0 | 68.0 | | 66.5 | Fine | 1.6 |
| 08-Feb-19 | 09:30 | 63.9 | 59.5 | 66.0 | | 63.9 | Fine | 1.1 |
| 14-Feb-19 | 16:55 | 67.4 | 62.0 | 69.0 |] | 67.4 | Fine | 0.0 |
| 20-Feb-19 | 15:40 | 65.8 | 60.5 | 67.5 | 1 | 65.8 | Fine | 1.4 |
| 26-Feb-19 | 15:55 | 66.4 | 59.5 | 68.0 | | 66.4 | Sunny | 1.5 |

NMS 16 Ha Wo Che

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linin Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | : dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 16:57 | 63.5 | 59.0 | 66.5 | | 63.5 | Sunny | 1.0 |
| 10-Dec-18 | 10:42 | 61.2 | 55.0 | 63.0 | | 61.2 | Sunny | 1.2 |
| 14-Dec-18 | 11:40 | 66.7 | 62.5 | 67.5 | | 66.7 | Fine | 1.1 |
| 20-Dec-18 | 11:27 | 62.6 | 58.5 | 65.0 | | 62.6 | Fine | 0.8 |
| 27-Dec-18 | 10:17 | 64.6 | 60.5 | 67.5 | | 64.6 | Fine | 0.7 |
| 03-Jan-19 | 15:30 | 67.0 | 63.5 | 71.0 | | 67.0 | Fine | 1.1 |
| 09-Jan-19 | 09:09 | 65.5 | 62.5 | 67.0 | | 65.5 | Fine | 0.3 |
| 15-Jan-19 | 10:40 | 68.0 | 67.5 | 72.0 | 75 | 68.0 | Cloudy | 1.2 |
| 21-Jan-19 | 10:05 | 66.5 | 62.1 | 68.0 | 15 | 66.5 | Fine | 0.6 |
| 28-Jan-19 | 13:27 | 64.9 | 61.0 | 67.0 | | 64.9 | Fine | 0.5 |
| 01-Feb-19 | 15:30 | 67.4 | 61.5 | 68.5 | | 67.4 | Fine | 0.9 |
| 08-Feb-19 | 10:05 | 62.4 | 51.0 | 65.0 | | 62.4 | Fine | 1.4 |
| 14-Feb-19 | 16:20 | 66.5 | 61.5 | 68.0 | | 66.5 | Fine | 0.0 |
| 20-Feb-19 | 15:05 | 66.5 | 61.0 | 68.0 | | 66.5 | Fine | 1.2 |
| 26-Feb-19 | 15:20 | 64.8 | 61.5 | 66.5 | | 64.8 | Sunny | 1.6 |

NMS 17 Shatin Pui Ying College

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | - | Uni | t: dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 11:12 | 63.2 | 60.5 | 64.5 | | 63.2 | Sunny | 1.1 |
| 10-Dec-18 | 09:45 | 69.0 | 67.0 | 70.5 | | 69.0 | Sunny | 1.6 |
| 14-Dec-18 | 10:00 | 68.9 | 66.5 | 70.5 | 70 | 68.9 | Fine | 1.0 |
| 20-Dec-18 | 10:40 | 62.0 | 59.5 | 64.0 | 70 | 62.0 | Fine | 1.1 |
| 27-Dec-18 | 11:30 | 63.4 | 51.0 | 66.0 | | 63.4 | Fine | 0.6 |
| 04-Jan-19 | 09:50 | 65.1 | 62.5 | 67.0 | | 65.1 | Cloudy | 0.1 |
| 10-Jan-19 | 09:58 | 64.6 | 63.1 | 68.4 | | 64.6 | Fine | 0.0 |
| 16-Jan-19 | 13:00 | 64.5 | 59.0 | 67.5 | 65 | 64.5 | Cloudy | 1.1 |
| 22-Jan-19 | 10:00 | 62.3 | 59.0 | 63.0 | | 62.3 | Fine | 1.0 |
| 29-Jan-19 | 13:27 | 59.5 | 56.0 | 61.0 | | 59.5 | Fine | 0.4 |
| 04-Feb-19 | 10:53 | 63.3 | 60.0 | 65.5 | | 63.3 | Fine | 0.4 |
| 11-Feb-19 | 10:30 | 59.9 | 58.0 | 61.5 | 70 | 59.9 | Fine | 0.3 |
| 18-Feb-19 | 13:40 | 63.2 | 55.5 | 64.5 |] | 63.2 | Fine | 1.6 |
| 25-Feb-19 | 17:05 | 60.0 | 59.5 | 62.0 | | 60.0 | Fine | 0.1 |

Note: According to the school schedule, there was an exam period from 9/1/2019 to 23/1/2019.

NMS 18 Ha Wo Che

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|----------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | : dB(A) 30 Min | IS | | (m/s) |
| 05-Dec-18 | 14:51 | 60.9 | 56.0 | 63.5 | | 60.9 | Cloudy | 1.2 |
| 11-Dec-18 | 12:20 | 69.6 | 64.5 | 71.5 | | 69.6 | Fine | 1.2 |
| 15-Dec-18 | 11:42 | 58.6 | 53.0 | 60.5 | | 58.6 | Fine | 0.5 |
| 21-Dec-18 | 11:16 | 57.7 | 53.0 | 60.5 | | 57.7 | Fine | 0.4 |
| 28-Dec-18 | 11:31 | 57.7 | 53.0 | 59.0 | | 57.7 | Fine | 0.5 |
| 03-Jan-19 | 16:30 | 64.5 | 62.0 | 67.5 | | 64.5 | Fine | 1.3 |
| 09-Jan-19 | 09:47 | 66.5 | 63.5 | 69.5 | | 66.5 | Fine | 0.0 |
| 15-Jan-19 | 11:15 | 70.5 | 67.0 | 73.0 | 75 | 70.5 | Cloudy | 1.3 |
| 21-Jan-19 | 10:51 | 62.4 | 55.5 | 65.5 | 75 | 62.4 | Fine | 0.3 |
| 28-Jan-19 | 14:21 | 64.4 | 61.5 | 66.0 | | 64.4 | Fine | 0.6 |
| 01-Feb-19 | 17:00 | 72.5 | 68.5 | 75.0 | | 72.5 | Fine | 1.4 |
| 08-Feb-19 | 10:40 | 60.0 | 52.5 | 62.0 | | 60.0 | Fine | 1.1 |
| 14-Feb-19 | 15:45 | 72.6 | 68.5 | 75.0 | | 72.6 | Fine | 1.2 |
| 20-Feb-19 | 14:30 | 73.2 | 69.0 | 77.5 | | 73.2 | Fine | 1.7 |
| 26-Feb-19 | 14:45 | 65.4 | 58.5 | 68.5 | | 65.4 | Sunny | 1.1 |

NMS 19 Wo Che Estate

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | : dB(A) 30 Min | S | | (m/s) |
| 05-Dec-18 | 13:41 | 65.9 | 62.5 | 67.5 | | 65.9 | Cloudy | 1.0 |
| 11-Dec-18 | 11:05 | 72.1 | 69.0 | 73.5 | | 72.1 | Fine | 1.2 |
| 15-Dec-18 | 09:50 | 65.6 | 61.5 | 67.5 | | 65.6 | Fine | 0.8 |
| 21-Dec-18 | 09:52 | 63.7 | 61.5 | 65.5 | | 63.7 | Fine | 0.7 |
| 28-Dec-18 | 09:41 | 67.1 | 63.5 | 69.0 | | 67.1 | Fine | 1.0 |
| 04-Jan-19 | 10:28 | 67.7 | 65.0 | 69.5 | | 67.7 | Cloudy | 0.2 |
| 10-Jan-19 | 10:51 | 71.2 | 67.0 | 74.0 | | 71.2 | Fine | 1.1 |
| 16-Jan-19 | 13:40 | 70.5 | 66.0 | 73.5 | 75 | 70.5 | Cloudy | 1.2 |
| 22-Jan-19 | 10:40 | 68.9 | 65.0 | 70.0 | | 68.9 | Fine | 1.2 |
| 29-Jan-19 | 14:07 | 69.0 | 63.0 | 71.5 | | 69.0 | Fine | 0.6 |
| 04-Feb-19 | 11:31 | 65.8 | 62.0 | 68.0 | | 65.8 | Fine | 0.0 |
| 11-Feb-19 | 11:05 | 67.7 | 64.5 | 69.5 | | 67.7 | Fine | 0.5 |
| 18-Feb-19 | 14:15 | 66.0 | 64.0 | 68.5 | | 66.0 | Fine | 1.2 |
| 25-Feb-19 | 17:39 | 66.4 | 63.5 | 69.0 | | 66.4 | Fine | 0.2 |

NMS 20 Wo Che Estate

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | : dB(A) 30 Min | IS | | (m/s) |
| 05-Dec-18 | 12:08 | 64.3 | 59.5 | 66.5 | | 64.3 | Cloudy | 0.9 |
| 11-Dec-18 | 10:30 | 69.7 | 67.0 | 71.5 | | 69.7 | Fine | 1.6 |
| 15-Dec-18 | 10:26 | 59.6 | 57.0 | 61.5 | | 59.6 | Fine | 0.6 |
| 21-Dec-18 | 10:28 | 58.7 | 56.5 | 60.0 | | 58.7 | Fine | 0.4 |
| 28-Dec-18 | 10:16 | 58.7 | 56.5 | 60.5 | | 58.7 | Fine | 1.1 |
| 04-Jan-19 | 11:04 | 63.3 | 58.5 | 65.5 | | 63.3 | Cloudy | 0.3 |
| 10-Jan-19 | 11:28 | 65.8 | 58.5 | 70.0 | | 65.8 | Fine | 0.8 |
| 16-Jan-19 | 14:15 | 71.6 | 68.0 | 73.0 | 75 | 71.6 | Cloudy | 1.3 |
| 22-Jan-19 | 11:15 | 61.3 | 57.5 | 63.0 | | 61.3 | Fine | 0.8 |
| 29-Jan-19 | 15:09 | 64.6 | 59.0 | 66.0 | | 64.6 | Fine | 0.6 |
| 04-Feb-19 | 12:05 | 58.8 | 55.0 | 61.0 | | 58.8 | Fine | 0.0 |
| 11-Feb-19 | 11:42 | 60.1 | 57.5 | 62.0 | | 60.1 | Fine | 0.3 |
| 18-Feb-19 | 14:50 | 67.5 | 65.0 | 70.0 | | 67.5 | Fine | 0.9 |
| 25-Feb-19 | 18:13 | 60.9 | 58.0 | 63.0 | | 60.9 | Fine | 0.3 |

NMS 23 Pai Tau

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | t: dB(A) 30 Min | IS | | (m/s) |
| 05-Dec-18 | 11:15 | 63.9 | 60.5 | 66.5 | | 63.9 | Cloudy | 0.9 |
| 11-Dec-18 | 11:00 | 64.8 | 60.0 | 67.0 | | 64.8 | Fine | 1.5 |
| 15-Dec-18 | 10:47 | 68.5 | 64.0 | 70.5 | | 68.5 | Fine | 0.6 |
| 21-Dec-18 | 11:30 | 71.0 | 66.0 | 72.5 | | 71.0 | Fine | 0.8 |
| 28-Dec-18 | 11:30 | 69.5 | 67.0 | 72.0 | | 69.5 | Fine | 1.1 |
| 03-Jan-19 | 13:30 | 63.5 | 57.5 | 66.0 | | 63.5 | Fine | 1.1 |
| 09-Jan-19 | 12:00 | 61.9 | 59.5 | 64.0 | | 61.9 | Fine | 0.0 |
| 15-Jan-19 | 13:00 | 65.6 | 57.0 | 68.0 | 75 | 65.6 | Cloudy | 0.0 |
| 21-Jan-19 | 11:41 | 63.2 | 60.5 | 64.5 | | 63.2 | Fine | 0.1 |
| 28-Jan-19 | 15:14 | 63.5 | 58.0 | 65.5 | | 63.5 | Fine | 0.4 |
| 01-Feb-19 | 13:40 | 68.6 | 64.5 | 71.0 | | 68.6 | Fine | 1.4 |
| 08-Feb-19 | 14:20 | 62.5 | 54.0 | 64.0 | | 62.5 | Fine | 1.4 |
| 14-Feb-19 | 11:40 | 64.5 | 58.5 | 66.0 |] | 64.5 | Fine | 0.8 |
| 20-Feb-19 | 10:45 | 66.5 | 62.0 | 69.0 |] | 66.5 | Fine | 1.6 |
| 26-Feb-19 | 10:25 | 68.5 | 60.0 | 72.0 | | 68.5 | Sunny | 1.2 |

NMS 24 Shatin Plaza

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | Leq | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | t: dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 13:57 | 63.3 | 61.5 | 65.0 | | 63.3 | Sunny | 1.2 |
| 10-Dec-18 | 14:57 | 63.5 | 60.5 | 64.5 | | 63.5 | Sunny | 1.0 |
| 14-Dec-18 | 12:20 | 64.4 | 60.5 | 66.5 | | 64.4 | Fine | 1.2 |
| 20-Dec-18 | 12:04 | 63.0 | 61.0 | 64.5 | | 63.0 | Fine | 0.7 |
| 27-Dec-18 | 13:30 | 65.9 | 62.5 | 68.5 | | 65.9 | Fine | 0.5 |
| 04-Jan-19 | 09:07 | 68.7 | 67.0 | 70.0 | | 68.7 | Cloudy | 0.8 |
| 10-Jan-19 | 12:20 | 67.4 | 64.8 | 69.7 | | 67.4 | Fine | 0.8 |
| 16-Jan-19 | 14:55 | 69.0 | 65.5 | 73.5 | 75 | 69.0 | Cloudy | 1.2 |
| 22-Jan-19 | 15:05 | 69.0 | 65.0 | 72.5 | | 69.0 | Fine | 1.1 |
| 29-Jan-19 | 09:00 | 63.1 | 61.0 | 64.0 | | 63.1 | Fine | 0.6 |
| 04-Feb-19 | 08:30 | 62.7 | 60.5 | 63.5 | | 62.7 | Fine | 0.4 |
| 11-Feb-19 | 14:17 | 63.6 | 61.5 | 65.0 | | 63.6 | Fine | 0.1 |
| 18-Feb-19 | 09:05 | 67.5 | 62.0 | 70.5 | | 67.5 | Fine | 1.2 |
| 25-Feb-19 | 10:21 | 63.8 | 62.0 | 65.0 | | 63.8 | Fine | 0.3 |

NMS 25A Sheung Wo Che

| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|-----------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Linin Level | Construction Noise Level | Weather | Speed |
| | | | | Uni | t: dB(A) 30 Min | IS | | (m/s) |
| 04-Dec-18 | 14:44 | 68.5 | 58.0 | 73.0 | | 68.5 | Sunny | 1.0 |
| 10-Dec-18 | 10:06 | 65.3 | 63.5 | 66.5 | | 65.3 | Sunny | 1.2 |
| 14-Dec-18 | 10:43 | 73.6 | 65.0 | 80.0 | | 73.6 | Fine | 1.1 |
| 20-Dec-18 | 09:01 | 66.3 | 59.0 | 70.5 | | 66.3 | Fine | 0.6 |
| 27-Dec-18 | 14:38 | 70.5 | 64.5 | 73.0 | | 70.5 | Fine | 0.7 |
| 04-Jan-19 | 09:51 | 66.7 | 59.2 | 70.6 | | 66.7 | Cloudy | 0.5 |
| 10-Jan-19 | 08:31 | 69.0 | 57.5 | 73.0 | | 69.0 | Fine | 0.5 |
| 16-Jan-19 | 08:30 | 66.5 | 50.5 | 70.5 | 75 | 66.5 | Cloudy | 0.2 |
| 22-Jan-19 | 11:50 | 70.4 | 67.0 | 72.0 | | 70.4 | Fine | 1.3 |
| 29-Jan-19 | 08:40 | 71.4 | 60.0 | 76.5 | | 71.4 | Fine | 0.7 |
| 04-Feb-19 | 08:30 | 62.1 | 60.4 | 63.8 | | 62.1 | Fine | 0.0 |
| 11-Feb-19 | 14:58 | 70.2 | 67.0 | 71.5 | | 70.2 | Fine | 0.4 |
| 18-Feb-19 | 16:40 | 72.1 | 68.5 | 74.0 | | 72.1 | Fine | 1.5 |
| 25-Feb-19 | 14:23 | 66.0 | 60.0 | 69.0 | | 66.0 | Fine | 0.1 |

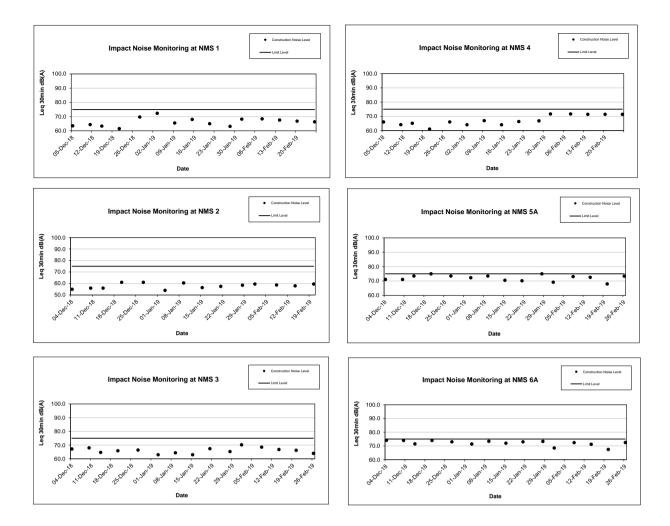
NMS 26 Wo Che Estate

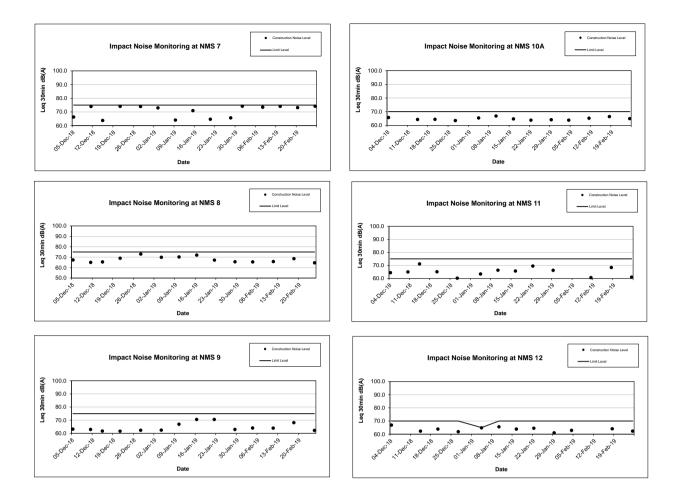
| | | | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|----------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | Unit | : dB(A) 30 Min | IS | | (m/s) |
| 05-Dec-18 | 14:18 | 72.6 | 68.5 | 75.0 | | 72.6 | Cloudy | 1.0 |
| 11-Dec-18 | 11:40 | 74.4 | 71.5 | 76.0 | | 74.4 | Fine | 1.3 |
| 15-Dec-18 | 11:02 | 68.2 | 65.0 | 70.5 | | 68.2 | Fine | 0.7 |
| 21-Dec-18 | 10:40 | 68.6 | 66.0 | 70.5 | | 68.6 | Fine | 0.7 |
| 28-Dec-18 | 10:54 | 69.6 | 67.0 | 71.5 | | 69.6 | Fine | 0.7 |
| 04-Jan-19 | 11:37 | 68.4 | 61.5 | 73.0 | | 68.4 | Cloudy | 0.9 |
| 10-Jan-19 | 10:15 | 72.5 | 68.0 | 75.0 | | 72.5 | Fine | 0.7 |
| 16-Jan-19 | 10:20 | 70.4 | 68.0 | 73.0 | 75 | 70.4 | Cloudy | 0.2 |
| 22-Jan-19 | 13:50 | 71.2 | 67.0 | 73.5 | | 71.2 | Fine | 1.1 |
| 29-Jan-19 | 11:03 | 71.6 | 67.5 | 74.5 | | 71.6 | Fine | 0.4 |
| 04-Feb-19 | 10:16 | 70.0 | 66.5 | 72.0 | | 70.0 | Fine | 0.0 |
| 11-Feb-19 | 15:49 | 68.3 | 66.0 | 70.0 | | 68.3 | Fine | 0.5 |
| 18-Feb-19 | 13:00 | 74.6 | 64.5 | 77.0 | | 74.6 | Fine | 1.3 |
| 25-Feb-19 | 16:30 | 68.0 | 65.5 | 70.0 | | 68.0 | Fine | 0.3 |

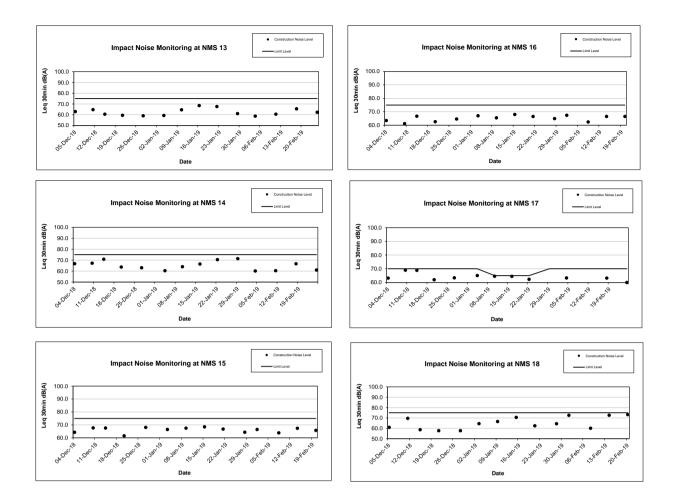
NMS 27 Jockey Club Ti-I College

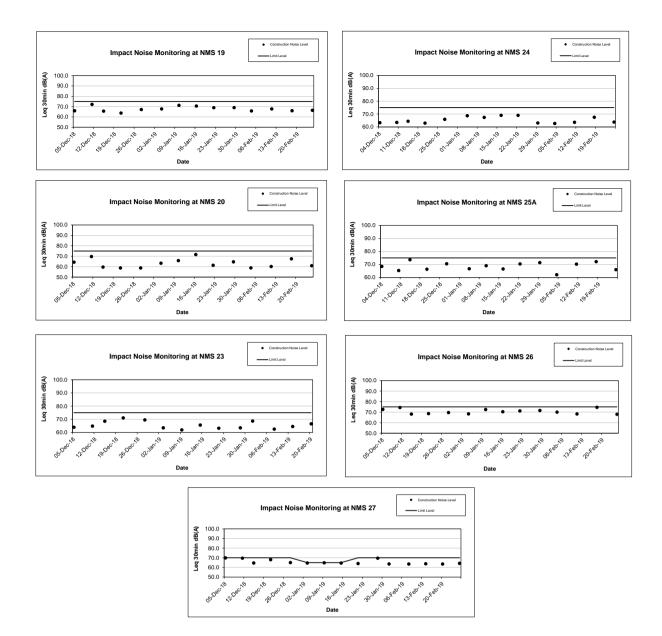
| | | Meas | ured Noise | Level | Limit Level | Construction Noise Level | | Wind |
|-----------|------------|-----------------|-----------------|-----------------|-------------|--------------------------|---------|-------|
| Date | Start Time | L _{eq} | L ₉₀ | L ₁₀ | Linit Level | Construction Noise Level | Weather | Speed |
| | | | | (m/s) | | | | |
| 05-Dec-18 | 12:55 | 69.9 | 68.0 | 73.0 | | 69.9 | Cloudy | 0.8 |
| 11-Dec-18 | 14:32 | 69.6 | 65.0 | 71.5 | | 69.6 | Fine | 1.0 |
| 15-Dec-18 | 12:30 | 64.6 | 62.0 | 66.5 | 70 | 64.6 | Fine | 0.4 |
| 21-Dec-18 | 12:35 | 68.0 | 66.0 | 69.5 | | 68.0 | Fine | 1.2 |
| 28-Dec-18 | 12:37 | 65.0 | 64.0 | 66.5 | | 65.0 | Fine | 1.0 |
| 03-Jan-19 | 12:50 | 64.6 | 57.5 | 67.0 | | 64.6 | Fine | 1.3 |
| 09-Jan-19 | 14:00 | 64.8 | 62.5 | 66.5 | 65 | 64.8 | Fine | 0.0 |
| 15-Jan-19 | 13:45 | 64.5 | 60.0 | 66.5 | | 64.5 | Cloudy | 0.8 |
| 21-Jan-19 | 17:37 | 64.0 | 60.8 | 68.3 | | 64.0 | Fine | 0.0 |
| 28-Jan-19 | 15:02 | 69.6 | 65.5 | 71.0 | | 69.6 | Fine | 0.9 |
| 01-Feb-19 | 16:15 | 63.6 | 58.5 | 64.5 | | 63.6 | Fine | 1.2 |
| 08-Feb-19 | 15:00 | 63.5 | 56.5 | 65.0 | 70 | 63.5 | Fine | 1.2 |
| 14-Feb-19 | 15:05 | 63.8 | 58.0 | 64.5 | | 63.8 | Fine | 1.4 |
| 20-Feb-19 | 13:50 | 63.5 | 58.0 | 65.5 | | 63.5 | Fine | 1.4 |
| 26-Feb-19 | 13:50 | 64.2 | 58.5 | 65.5 | | 64.2 | Sunny | 1.2 |

Note: According to the school schedule, there was an exam period from 2/1/2019 to 18/1/2019.









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Appendix E

Waste Flow Table

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

Note:

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

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

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

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| | | Actual Quant | ities of Inert C&I | D Materials Gene | erated Monthly | | Actual Quantities of Non-inert C&D Wastes Generated Monthly | | | | |
|-----------|---|---|---------------------------|--------------------------|----------------------------|--------------------------|---|----------------------------------|--------------------------|-------------------|-----------------------------------|
| Months | Total Quantity Generated (Inert C&D) | Hard Rock and Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging | Plastics (see Note 2) | Chemical Waste | Others, e.g. general refuse |
| | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000 kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000m ³) |
| 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 | | | | | | | | | | | |
| 2019 Apr | | | | | | | | | | | |
| 2019 May | | | | | | | | | | | |
| 2019 Jun | | | | | | | | | | | |
| Sub-Total | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 |
| 2019 Jul | | | | | | | | | | | |
| 2019 Aug | | | | | | | | | | | |
| 2019 Sep | | | | | | | | | | | |
| 2019 Oct | | | | | | | | | | | |
| 2019 Nov | | | | | | | | | | | |
| 2019 Dec | | | | | | | | | | | |
| Total | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.070 |

Note:

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

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

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

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Appendix F

Environmental Mitigation Implementation Schedule (EMIS)

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| EIA Review Ref | Location | Environmental Protection Measures/ | Implementatio n Agent | Implementation Status in Construction Phase |
|-------------------------------------|--------------------------|--|--------------------------|---|
| | | Noise Measures | | |
| | | • Scheduling the construction activities carefully according to the actual site work situation, avoid of concurrent activities and construction works fronting the affected schools, to minimize the total noise generated (max as 102dB (A). | Contractor | Implemented |
| | | PME is recommended to operate in sub-grouping, and different sub-groups shall not be operated concurrently within any half hour period | Contractor | Implemented |
| | | The construction activities should be carried out in the daytime hours (0700 – 1900). Construction Noise Permit (CNP) for constriction activities is required during evening or night time hours. | Contractor | Implemented |
| 3.10.2, 3.10.3, 3.10.14, 3.10.15 | | Construction work programme should be considered before actual construction work is undertaken, and noise mitigation measures should be implemented to minimize the potential construction noise impact. Selection and optimization of construction programmes, avoidance and reduction of parallel operation of noisy PME during noise sensitive periods. | Contractor | Implemented |
| and Table 3.10 | | Use of well-maintained and regularly-serviced plant during the works. | Contractor | Not Observed |
| | Within the boundaries of | Plant operating on intermittent basis should be turned off or throttled down when not in active use. | Contractor | Implemented |
| | all construction sites. | 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 | Implemented |
| | | Fixed plants should be sited away from NSRs where possible. | Contractor | Not Applicable |
| | | Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works. | Contractor | Not Applicable |
| 3.10.4, 3.10.5 | | The use of particular plant with equipment quieter than those specified in the GW-TM are recommended to reduce the noise levels generated by the plant. | Contractor | Not Applicable |
| and Table 3.3 | | Other type of quiet PME are allowed to use for their needs based on the actual construction conditions and programmes | Contractor | Not Applicable |
| 3.10.6 to 3.10.9 | | Temporary noise barriers provide noise attenuation by screening NSRs from stationary and mobile plants from direct line-of-sight in shadow zone. | Contractor | Not Applicable |
| | | • The use of 3m high moveable barriers with skid footing and a small cantilevered upper portion | Contractor | Not Applicable |

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| | | should be adopted. The barrier material shall have a surface mass of not less than 14kg/m ² on skid footing with 25mm thick internal sound absorptive lining to achieve the maximum screening effect. | | |
| | | These temporary noise barriers should be located immediately adjacent to working area. | Contractor | Not Applicable |
| | | The temporary noise barriers should be located along the working area to make sure the construction plant could be screened during all kinds of construction activities as far as practicable. | Contractor | Not Applicable |
| | | Noise jacket/muffler shall be used to cover the noisy part of the engine or at the engine exhaust of particular mobile plants respectively when temporary noise barriers are not practicable or noise reduction achieved is insufficient. | Contractor | Not Applicable |
| | | For the stationary plant bored pile oscillator, temporary noise barriers of sufficient height with skid footing and small cantilevered upper portion should be provided. | Contractor | Not Applicable |
| | | Barrier material of surface density of at least 14 kg/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 | | |
| 4.12.1 and | Within the boundaries of | The Contractor shall notify any specific construction works as stated in the Air Pollution Control (Construction Dust) Regulation to the Authority before the commencement of such work. Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be implemented to control dust emissions from all construction work sites. | Contractor | Implemented |
| 4.12.1 and 4.12.2 | all construction sites. | The Contractor shall undertake at all times to prevent dust nuisance as a result of his activities. Dust suppression measures such as the water spraying are necessary and should be installed to ensure that the air quality at the boundary of the site and at any sensitive receivers complies with the Hong Kong Air Quality Objectives. | Contractor | Implemented |
| | | • The Contractor shall apply for a license or permit under the requirements of the relevant | Contractor | Implemented |

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| | | legislation (e.g. Air Pollution Control Ordinance and its subsidiary regulations) wherever applicable. | | |
| | | • Watering of unpaved areas, access roads, construction areas and dusty stockpiles shall be undertaken at least eight times daily during dry and windy weather. Watering of the haul road shall be undertaken four to eight times daily during dry or windy weather. Water sprays may be either fixed or mobile to follow individual areas to be wetted as and when required. Application of suitable wetting agents, such as dust suppression chemicals, shall be used in addition to water, especially during the dry season (October to December). It is also suggested that watering with complete coverage of active construction area eight times a day. | Contractor | Implemented |
| | | Effective water sprays shall be used during the delivery and handling of all raw sand and aggregate, and other similar materials, wet dust is likely to be created and to dampen all stored materials during dry and windy weather. | Contractor | Implemented |
| | | Stockpiles of sand, aggregate or any other dusty materials greater than 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 | Not Applicable |
| 4.12.1 | | The Contractor shall restrict all motorized vehicles within the construction site, excluding those on public roads, to maximum speed of 20 km per hour and confine haulage and delivery vehicles to designated roadways inside the Site. | Contractor | Implemented |
| | | Construction working areas should be restricted to a minimum practicable size. | Contractor | Implemented |
| | | The Contractor shall ensure that no earth, rock or debris is deposited on public or private rights of way as result of his activities, including any deposits arising from the movement of plant or vehicles. | Contractor | Implemented |
| | | The Contractor shall provide a wheel washing facility at the exits from work areas to the satisfaction of the Engineer and to the requirements of the Commissioner of Police. Water in wheel washing facilities and sediment shall be changed and removed respectively at least once a month. | Contractor | Not Observed |

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| | | The Contractor shall submit details of the wheel washing facilities, which shall be usable prior to any earthworks excavation activity on the construction site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road. | Contractor | Not Applicable |
| | | In the event of any spoil or debris from construction works being deposited on adjacent land, or steams, or any slit being washed down to any area, then all such spoil, debris or material and silt shall be immediately removed and the affected land and areas restored to their natural state by the Contractor to the satisfaction of the Engineer. | Contractor | Not Applicable |
| | | If spoil cannot be immediately transported out of the Site, stockpiles should be stored in sheltered areas. | Contractor | Implemented |
| | | Plant and vehicles shall be inspected annually to ensure that they are operating efficiently and that exhaust emissions are not causing a nuisance. All site vehicle exhausts should be directed vertically upwards or directed away from ground. | Contractor | Not Observed |
| | | Construction dust monitoring shall be carried out at representative monitoring locations during the construction period. | Contractor | Implemented |
| 4.12.1, 4.13.1 and Table 8.2 | | • Path for complaints and handling procedures should be set up and implement. | Contractor | Implemented |
| | | Dark smoke emission shall be control in accordance with the Air Pollution Control (Smoke) Regulation and ETWB TCW 19/2005. | Contractor | Implemented |
| NA | | Plant and equipment should be well maintained to prevent dark smoke emission. | Contractor | Not Applicable |
| INA | | Only approved or exempted Non-road Mobile Machineries (NRMMs) including regulated machines and non-road vehicles with proper labels are allowed to be used in specified activities on-site. | Contractor | Implemented |
| | | Water Quality Measures | | |
| 5.7 | | Silt-laden surface run-off should be prevented from directly entering the sensitive receivers during the construction works. The mitigation measures described below for the construction phase are in accordance with ProPECC PN 1/94: | Contractor | Implemented |
| | sites. | Construction works should be programmed so as to minimise excavation during the wet season | Contractor | Implemented |

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| | | (April to September). If this is not possible then measures should be taken to minimise the areas exposed by covering temporary exposed slopes with tarpaulins or similar material, the protection of temporary road surfaces with gravel or crushed stone and the early reinstatement of final surfaces with hydro seed grass/shrub mixture. This latter measure would have the added benefit of reducing the windblown dust during the dry season. Where temporary covering of slopes is required this should be carried out before the onset of the rainfall or storm. | | |
| | | Existing and newly constructed open manholes should be covered and sealed to prevent run off and water borne debris entering the drainage network without having previously passed through a sediment trap. | Contractor | Implemented |
| | | Stock piles of construction materials, sand and gravel or excavated material should be covered with tarpaulins prior to rainstorms. The washing of material from the stockpiles directly into the storm drains should be prevented by passing the run off through a sediment trap. | Contractor | Implemented |
| | | • The surface water from the site should be discharged into storm water drain after passing through sand and silt traps designed to accommodate the maximum discharge from the site. Within the site channels, bunds or sandbags should be used to direct run off into the traps. Storm water from outwit the site should be prevented from washing over the site by the construction of interceptor channels at the site boundary. Both perimeter channels and the sedimentation traps should be constructed prior to the commencement of site formation and earthworks. | Contractor | Not Applicable |
| | | The efficiency of the interceptor channels, traps and sedimentation chambers should be maintained by regular cleaning of accumulated silt and sand. Particular attention should be paid to maintenance following heavy rainfall and immediately after the issue of heavy rainfall warning by the Hong Kong Observatory. | Contractor | Not Applicable |
| | | • 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 | Not Applicable |

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| | | The water used for the washing down of mixing drums used for onsite batching of concrete and delivery lorries for off-site batched concrete should be recycled whenever possible. Wastewater generated from the washing which is discharged should be passed through a silt trap before discharge to the storm water system. | Contractor | Not Applicable |
| | | • The wastewater from the washing of the wheels and subframe of vehicles returning from the site onto public roads will contain suspended solids and debris. A washing bay should be provided at the exit from the site and should, where practicable, incorporate water recirculation. Water from the washing bay which is discharged to the storm water system should first be passed through a silt trap which also includes an oil/grease removal weir. | Contractor | Not Applicable |
| | | • Plant maintenance areas should be paved to prevent waste oils soaking into the ground. Where possible the area should be undercover to minimise the formation of runoff and any runoff from the paved area passed through an oil trap before being discharged to the storm drains. Fuel storage tanks should be surrounded by bunds with a capacity of at least 150% of the storage capacity. The bunded areas should be able to be drained of rain water through the petrol interceptor and accumulated rain removed at regular intervals. | Contractor | Not Applicable |
| | | Waste oils from the site should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance and absorbent cloths and granules should be available for the cleanup of spillages. | Contractor | Not Applicable |
| | | Sewage from toilets and kitchens should be discharged directly into a foul sewer. If it is not possible to locate the site offices within easy access of a foul sewer a septic tank and soakaway should be constructed before the offices are occupied. Chemical toilets should be emptied on a daily basis and the contents taken to a foul sewer or the Sha Tin Sewage Treatment Works for disposal. Wastewater collected from canteen kitchens should be discharged to the foul sewers via grease traps which provide a minimum of 20 minutes retention during peak flow. All discharges into foul sewers and storm sewers should have to be complied with TM standards under WPCO. | Contractor | Not Applicable |
| | | Run off from roofed surfaces of site facilities should be collected and diverted to a storm water drain. Passage through a silt trap is only required if the water is diverted via open .channels which might accumulate solids during non-rainy periods or which intercept surface run off from unpaved areas. | Contractor | Not Applicable |

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| | | • Discharges from the site shall be required to meet the terms and conditions of a valid WPCO Water Pollution Control Ordinance (WPCO). | Contractor | Implemented |
| | | Regular site inspection of the construction works shall be carried out to determine compliance wit measures. Inspection should be included: | h the recommend | led mitigation |
| | | (i) The functioning of onsite surface water collection channels and sediment traps. | Contractor | Not Applicable |
| | | (ii) The functioning of interception channels at the boundary of the works areas | Contractor | Not Applicable |
| | | (iii) The covering of stockpiles of fill and construction materials and the routing of any run off through the sediment traps. | Contractor | Not Applicable |
| Section 12.6 of the Approved | | (iv) The pumping procedures for emptying trenches and other excavations and the use of silt traps prior to the discharge of the water to the storm water system. | Contractor | Not Applicable |
| EIA Report | | (v) The use of washwater for hosing down concrete mixing and delivery vehicles and other vehicles leaving the site and the routine of excess water from the facility through sediment traps. | Contractor | Not Applicable |
| | | (vi) The operation of the plant maintenance areas to control small spillages and the correct management of the fuel storage bunded area. | Contractor | Not Applicable |
| | | (vii) The connection of the site office wastewater discharge to an existing foul sewer if appropriate or the operation of the kitchen wastewater grease trap and the regular emptying of the chemical toilets | | Not Applicable |
| | | (viii)The operation of the roof rain water collection and drainage system. | Contractor | Not Applicable |
| | 1 | Landscape and Visual Mitigation Measures | | |
| | | Construction Phase | | |
| Table 6.5 | During | • Existing trees shall be preserved as much as possible. Detailed tree preservation and transplanting proposals shall be submitted to relevant government departments for approval in accordance with DEVB TC (W) No. 7/2015. | | Implemented |
| | construction within the 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 |
| | | • Old and valuable trees (OVTs) identified in the Project Boundary shall be protected in accordance with ETWB TCW no. 29/2004. | Contractor | Implemented |
| | | • Night-time lighting glare shall be properly managed and control during construction so as | Contractor | Implemented |

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

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| | | disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. | | |
| | | The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor. | Contractor | Implemented |
| | | Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimization of waste generation in the hierarchy. | Contractor | Implemented |
| 7.6.5 to 7.6.6 | | Environmental Management Plan (EMP) and trip-ticket system shall be implemented for monitoring management of waste. | Contractor | Implemented |
| | | Specific measures targeting the mitigation of impacts in works areas and the transportation of spoil off-site should be provided to minimize the potential impacts to the surrounding environment. | Contractor | Implemented |
| 7.6.7 | Within the boundaries of | To facilitate adoption of the best-practice philosophy, training shall be provided to all personnel working on site. The training shall promote the concept of general site cleanliness and clearly explain the appropriate waste management procedures defined in the EMP. Overall, the training should encourage all workers to reduce, reuse and recycle wastes. | Contractor | Implemented |
| | all construction sites as well as | The contractor's environmental performance shall be monitored and controlled through the week the environmental walks shall include: | ly environmental | walks. The items after |
| | transportation routes to designed areas for off-site disposal of materials/Prior to and during | A review of the EMP in particular the suitability of the environmental measures on nuisance abatement and waste management adopted by the contractor; | Contractor | Implemented |
| | | The environmental performance of the contractor and his sub-contractors; | Contractor | Partially Implemented |
| 7.6.8 to 7.6.9 | | The effectiveness of the environmental measures on nuisance abatement and waste management implemented on the site, and any complaints received; and | Contractor | Partially Implemented |
| | | The promptness of rectification or improvement actions of the Contractor on the defects and deficiencies identified during inspections of the site. | Contractor | Partially Implemented |
| | construction activities. | Waste shall only be disposed of at licensed sites and the WMP should include procedures to ensure that illegal disposal of wastes does not occur. Only waste haulers authorized to collect the specific category of waste concerned should be employed and a trip ticket system shall be implemented for offsite disposal of inert C&D materials and non-inert C&D materials at public | Contractor | Implemented |

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

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| | | Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Wastes as follows. Containers used for the storage of chemical was | | torage of Chemical |
| | | • be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; | Contractor | Implemented |
| | | have a capacity of less than 450L unless the specifications have been approved by the EPD; and | Contractor | Implemented |
| | | • display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C). | Contractor | Implemented |
| | | The storage area for chemical wastes should: | | |
| | | be clearly labelled and used solely for the storage of chemical waste; | Contractor | Implemented |
| | | be enclosed on at least 3 sides; | Contractor | Implemented |
| 7.6.15 to 7.6.17 | | have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; | Contractor | Implemented |
| | | have adequate ventilation; | Contractor | Implemented |
| | | • be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); and | Contractor | Implemented |
| | | be arranged so that incompatible materials are adequately separated. | Contractor | Implemented |
| | | The Contractor shall register with EPD as a Chemical Waste Producer. Waste oils and other che Disposal (Chemical Waste) (General) Regulation will require disposal by appropriate means and prior to disposal. Appropriate means include disposal: | | |
| | | via a licensed waste collector; and | Contractor | Implemented |
| | | to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Facility which also offers a chemical waste collection service and can supply the necessary storage containers; or | Contractor | Implemented |
| | | to a reuser of the waste, under approval from EPD. | Contractor | Not Applicable |
| 7.6.18 to 7.6.20 | | General refuse generated on-site should be stored in enclosed bins or compaction units separate from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily or every second day basis to minimize | Contractor | Partially Implemented |

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

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