

JOB NO.: TCS01321/23

CEDD SERVICE CONTRACT NO. EDO 12/2023 ENVIRONMENTAL TEAM FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE – SITE FORMATION AND ASSOCIATED INFRASTRUCTURE WORKS

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT REPORT (OCTOBER 2023)

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

| Date | Reference No. | Prepared By | Certified By |
|------------------|-------------------------|--------------------|--------------|
| 22 November 2023 | TCS01321/23/600/R0005v1 | Anh | Am |

Nicola Hon (Environmental Consultant)

Tam Tak Wing (Environmental Team Leader)

| Version | Date | Remarks | |
|---------|------------------|------------------|--|
| 1 | 22 November 2023 | First submission | |
| | | | |
| | | | |



| Civil Engineering and Development Department | Your reference: | |
|---|-----------------|--------------------|
| East Development Office | | |
| 8/F, South Tower, West Kowloon Government Offices | Our reference: | HKCEDD10/50/109338 |
| 11 Hoi Ting Road | | |
| Yau Ma Tei | Date: | 30 November 2023 |
| Kowloon | | |

Attention: Mr Fung Yiu Cheung

BY POST

Dear Sirs

Agreement No.: NTE 08/2016 Independent Environmental Checker for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring and Audit Report (October 2023)

We refer to the email of 22 November 2023 from Action-United Environmental Services and Consulting attaching a Monthly Environmental Monitoring and Audit Report (October 2023) for the captioned project.

We have no further comment and hereby verify the captioned report.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Eugene Cheng on 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

James Choi Independent Environmental Checker

CPSJ/LCCR/CYHE/lsmt

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EXECUTIVE SUMMARY

- ES01 Action-United Environmental Services & Consulting (AUES) has been awarded the Civil Engineering and Development Department (CEDD) Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract) on 15 September 2023. As notifying by AECOM Asia Company Limited (Engineer's Representative) subsequently, the commencement date of the Service Contract is on 22 September 2023 for the Contract Period of 22 months.
- ES02 The previous service contract nos. NTE/07/2016 and EDO 8/2022, covering the environmental monitoring and audit (EM&A) service for the Development of Anderosn Quarry Site (ARQ) for Contracts 1, 2, 3, 4 and 5 was completed in September 2022 and September 2023 respectively.
- ES03 The Services under the Service Contract is to provide EM&A services for the Works Contracts pursuant to the requirement of Environmental Team (ET) under the EM&A manual to ensure that the environmental performance of the Works Contracts comply with the requirement specified in the EM&A Manual and EIA Report of Development of ARQ and other relevant statutory requirements.
- ES04 To facilitate the project management and implementation, the ARQ project involved five major infrastructure works CEDD contracts, the commencement date and anticipated completion date of the five works contracts are summarized in below table.

| Contract | Commencement date | Anticipated completion date |
|-------------------------|-------------------|-----------------------------|
| NE/2016/01 (Contract 1) | December 2016 | September 2023 |
| NE/2016/05 (Contract 2) | March 2017 | September 2023 |
| NE/2017/03 (Contract 3) | May 2018 | December 2024 |
| ED/2020/02 (Contract 4) | July 2021 | March 2025 |
| ED/2019/02 (Contract 5) | March 2021 | September 2024 |

- ES05 As notified by AECOM, the certificate of completion of the last section of the works have been issued for Contract 1 and Contract 2 on 30 June 2023 and 15 May 2023 respectively. In view of the completion of major construction works, the EM&A service for Contract 1 and Contract 2 under service contract no. EDO 8/2022 was ceased in late September 2023 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.
- ES06 This is the monthly EM&A report presenting the monitoring results and inspection findings for Contracts 3, 4 and 5 for the period from 1 to 31 October 2023 (hereinafter 'the Reporting Period').

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES07 Environmental monitoring activities under the EM&A programme in the Reporting Period are summarized in the following table.

| Environmental | Environmental Monitoring | Reporting Period | | |
|--------------------|---|--|--------------------|--|
| Aspect | Parameters / Inspection | Number of Active Monitoring Locations | Total Occasions | |
| Air Quality | 1-hour TSP | 7 | 105 | |
| Air Quality | 24-hour TSP | 4 | 20 | |
| Construction Noise | L _{eq(30min)} Daytime for Contract NE/2016/01 | 8 | 40 | |
| Construction Noise | L _{eq(30min)} Daytime for Contract NE/2017/03 | 1 | 5 | |

BREACH OF ACTION AND LIMIT (A/L) LEVELS



ES08 No exceedance of air quality was recorded in the Reporting Period. For construction noise monitoring, no Limit Level exceedance was recorded and no noise complaint (which triggered Action Level) was received in the reporting period. The environmental exceedance, NOE issued and investigation of exceedance are summarized in the following table.

| Environmentel | Monitoring | Astion | T ::4 | Event & Action | | |
|-------------------------|--------------------------------|-----------------------------|-------|----------------|---------------|---------------------------|
| Environmental Aspect | 0 | Action Limit Level Level | | NOE Issued | Investigation | Corrective Actions |
| Air Quality | 1-hour TSP | 0 | 0 | 0 | NA | NA |
| | 24-hour TSP | 0 | 0 | 0 | NA | NA |
| Construction Noise | L _{eq(30min)} Daytime | 0 | 0 | 0 | NA | NA |

ENVIRONMENTAL COMPLAINT

ES09 In the reporting period, no environmental complaint was received in the Reporting Period.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES10 No environmental summons or successful prosecutions for the Project were recorded in the Reporting Period.

REPORTING CHANGE

ES11 The previous service contract nos. NTE/07/2016 and EDO 8/2022, covering the EM&A service for the Development ARQ for Contracts 1, 2, 3, 4 and 5 was completed in September 2022 and September 2023 respectively. As notified by AECOM, the certificate of completion of the last section of the works have been issued for Contract 1 and Contract 2 on 30 June 2023 and 15 May 2023 respectively. In view of the completion of major construction works, the EM&A service for Contract 1 and Contract 2 under service contract no. EDO 8/2022 was ceased in late September 2023 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.

SITE INSPECTION

- ES12 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 3* were carried out by the RE, ET and Contractor on 6, 13, 20 and 27 October 2023 in which IEC joined the site inspection with SSEMC on 13 October 2023. No non-compliance was noted during the site inspection.
- ES13 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 4* were carried out by the RE, ET and Contractor on 4, 11, 19 and 25 October 2023 in which IEC joined the site inspection with SSEMC on 19 October 2023. No non-compliance was noted during the site inspection.
- ES14 In this Reporting Period, joint site inspections to evaluate the site environmental performance for *Contract 5* were carried out by the RE, ET and Contractor on 5, 12, 19 and 26 October 2023 in which IEC joined the site inspection on 26 October 2023. No non-compliance was noted during the site inspection.

FUTURE KEY ISSUES

- ES15 The Contractor are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained.
- ES16 Since construction site is highly visible to the resident at nearby estates, the Contractors should pay special attention on potential environmental impact generated by the site activities and adhere



implement adequate air quality and noise mitigation measures as far as practicable to reduce the impact to the public.

- ES17 Construction noise is one of the key environmental issues during construction work of the Project. Noise mitigation measures such as using quiet plants and noise barriers shall be implemented where practicable according to the EM&A manual.
- ES18 In addition, the Contractors should ensure all effluent discharge shall be fulfilled the Technical Memorandum of Effluent Discharged into Drainage and Sewerage Systems, inland and Coastal Waters criteria or relevant discharge license requirement.



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1. INTRODUCTION

PROJECT BACKGROUND

- 1.1.1 Development of Anderson Road Quarry (ARQ) is to provide land and the associated infrastructures for the proposed land used at the existing ARQ Site at the North-eastern of East Kowloon according to the final Recommended Outline Development Plan (hereinafter named as the Project Works).
- 1.1.2 To facilitate the project management and implementation, the ARQ project involved five major infrastructure works CEDD contracts, the commencement date and anticipated completion date of the five works contracts are summarized in below table.

| Contract | Commencement date | Anticipated completion date |
|-------------------------|-------------------|-----------------------------|
| NE/2016/01 (Contract 1) | December 2016 | September 2023 |
| NE/2016/05 (Contract 2) | March 2017 | September 2023 |
| NE/2017/03 (Contract 3) | May 2018 | December 2024 |
| ED/2020/02 (Contract 4) | July 2021 | March 2025 |
| ED/2019/02 (Contract 5) | March 2021 | September 2024 |

- 1.1.3 Action-United Environmental Services & Consulting (AUES) has been awarded the Civil Engineering and Development Department (CEDD) Service Contract No. EDO 8/2022 Environmental Team for Development of Anderson Road Quarry Site Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract) on 15 September 2023. As notifying by AECOM Asia Company Limited (Engineer's Representative) subsequently, the commencement date of the Service Contract is on 22 September 2023 for the Contract Period of 22 months.
- 1.1.4 The Services under the Service Contract is to provide EM&A services for the Works Contracts pursuant to the requirement of Environmental Team (ET) under the EM&A manual to ensure that the environmental performance of the Works Contracts comply with the requirement specified in the EM&A Manual and Environmental Impact Assessment (EIA) Report of Development of Anderson Road Quarry and other relevant statutory requirements.
- 1.1.5 The previous service contract nos. NTE/07/2016 and EDO 8/2022, covering the EM&A services for the Development of ARQ site for Contracts 1, 2, 3, 4 and 5 was completed in September 2022 and September 2023 respectively.
- 1.1.6 As notified by AECOM, the certificate of completion of the last section of the works have been issued for Contract 1 and Contract 2 on 30 June 2023 and 15 May 2023 respectively. In view of the completion of major construction works, the EM&A service for Contract 1 and Contract 2 under service contract no. EDO 8/2022 was ceased in late September 2023 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.
- 1.1.7 According to the Approved EM&A Manual, air quality and noise monitoring are required to be monitored during the construction phase of the Project. As part of the EM&A program, baseline monitoring is required to determine the ambient environmental conditions. Baseline monitoring including air quality and noise conducted between *January* and *April 2019* at all designated monitoring locations were before construction work commencement. Furthermore, the Baseline Monitoring Report which verified by the Independent Environmental Checker (hereinafter referred as "the IEC") has been submitted to Environmental Protection Department (EPD) on *9 May 2017* for endorsement.
- 1.1.8 This is the monthly EM&A report presenting the monitoring results and inspection findings for Contracts 3, 4 and 5 for the period from 1 to 31 October 2023 (hereinafter 'the Reporting Period').



REPORT STRUCTURE

- 1.2.1 The monthly EM&A Report is structured into the following sections:-
 - Section 1 Introduction Section 2 Project Organization and Construction Progress Section 3 Summary of Impact Monitoring Requirements Section 4 Air Quality Monitoring Section 5 Construction Noise Monitoring Section 6 Waste Management Section 7 Site Inspections Section 8 Environmental Complaints and Non-Compliance Section 9 Implementation Status of Mitigation Measures Section 10 Conclusions and Recommendations



2. PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS

2.1 CONSTRUCTION CONTRACT PACKAGING

2.1.1 To facilitate the project management and implementation, the Project was divided by 5 works contracts as described in following. The details of each contract are summarized below and the delineation of each contract is shown in *Appendix A*.

Contract 1 (Contract No. NE/2016/01)

- 2.1.2 Commencement date of Contract 1 was in late December 2016 and the major construction work was completed in June 2023. The major scope of work of Contract 1 is listed below:
 - Formation of about 40 hectares (ha) of land platforms at the ARQ site and the associated geotechnical works;
 - Road works including construction of approximately 3-kilometer long vehicular roads, footpaths, cycle tracks, an approximately 130-meter long underpass at the southern end an a public transport terminus at the northern end at the ARQ site;
 - Provision of and improvement to water supply, drainage and sewerage systems as well as landscaping works; and
 - Construction of proposed subway structures and lift tower structures of pedestrian connectivity facilities.

Contract 2 (Contract No. NE/2016/05)

- 2.1.3 Commencement date of Contract 2 was in March 2017 and the major construction work was completed in May 2023. The major Scope of Work of the Contract 2 is listed below:
 - (i) Construction of the following pedestrian connectivity facilities with covered elevated walkways, covered at grad walkways, escalators, life towers with associate staircase and lifts:-
 - (a) Linking Hiu Kwong street with Hiu Ming Street (E1)
 - (b) Linking the proposed "Footbridge Link at Sau Ming Road" with Hiu Ming Street (E2, C1 and E3)
 - (c) Linking the proposed bus-to-bus interchange at Tseung Kwan O Tunnel Toll Plaza with Lin Tak Road (E12)
 - (ii) Construction of bus-to-bus interchange (BBI) at Tseung Kwan O Tunnel Toll Plaza;
 - (iii) Associated landscape works

Contract 3 (Contract No. NE/2017/03)

- 2.1.4 The commencement date of Contract 3 was in May 2018 and the tentative completion date in September 2023. The major Scope of Work of the Contract 3 is listed below:
 - (i) Site formation and road works in the following sections:-
 - (a) at junction of Clear Water Bay Road (CWBR) and On Sau Road constructed under the Development at Anderson Road (DAR) project including the provision of U-turn facility and noise mitigation measures (RIW1);
 - (b) at New Clear Water Bay Road (NCWBR) near Shun Lee Tsuen Road including the road widening works at NCWBR, modification of existing subway structure and provision of noise mitigation measures (RIW2); and
 - (c) at the junction of Lin Tak Road and Sau Mau Ping Road, construction of flyover above Tseung Kwan O Road, provision of loading and unloading bays along Lin Tak Road and noise mitigation measures (RIW3).
 - (ii) construction of the following pedestrian connectivity facilities with covered elevated walkways, escalators and lift towers with associated staircases and lifts:-
 - (a) linking Anderson Road Quarry site with the DAR Site (except the works covered under Contract 1) (System A and System B);
 - (b) linking Hiu Ming Street with Hiu Yuk Path (E8); and



- (c) linking the proposed bus-bus interchange at Tseung Kwan O Tunnel Toll Plaza with Sau Mau Ping Road (E11).
- (iii) Associated landscape works.

Contract 4 (Contract No. ED/2020/02)

- 2.1.5 The commencement date of Contract 4 is in July 2021 and tentative completion date in December 2023. The major Scope of Work of the Contract 4 is listed below:
 - Hard landscaping and other ancillary works (e.g. paver footpath, planter walls, benches, lighting etc.)
 - Soft landscaping works; landscape deck, emergency vehicular access, access road:
 - Park lighting system;
 - Electrical and mechanical engineering works for underground water treatment facilities and pumping system for Artificial Flood Attenuation Lake; and
 - Potential slope enhancement requested by GEO.

Contract 5 (Contract No. ED/2019/02)

- 2.1.6 The commencement date of Contract 5 in March 2021 and tentative completion data in April 2024. The major Scope of Work of the Contract 5 is listed below:
 - Construction pedestrian connectivity facility with covered elevated walkway, covered at grade walkway and escalators linking Sau Mau Ping Road with the existing covered elevated walkway to Po Tat Estate (E5);
 - Construction a pedestrian connectivity facility with covered elevated walkway, covered at grade walkway and escalators linking Sau Mau Ping South Estate with the existing covered walkway to Sau Mau Ping Road (E6);
 - Construction a pedestrian connectivity facility with covered elevated walkway, elevated walkway, lift tower with associated staircase and lifts linking Hiu Kwong Street with podium of Sau Ming House, Sau Mau Ping Estate, provision of at grade staircase (E7)'
 - Construction a pedestrian connectivity facility with covered elevated walkway, lift tower with associated staircase and lifts linking podium of Po Tat Estate to Sau Mau Ping Road (E10); and
 - Ancillary works including electrical and mechanical, slope stabilization, drainage, utilities and landscaping works.

2.2 **PROJECT ORGANIZATION**

2.2.1 The project organization and contact details for Contracts 3, 4 and 5 are shown in *Appendix B*.

2.3 CONSTRUCTION PROGRESS

2.3.1 The 3-month rolling construction programme for Contracts 3, 4 and 5 are shown in *Appendix C*. The major construction activities conducted in the Reporting Period are summarized in below.

Contract 3 (NE/2017/03)

Pedestrian Connectivity Facilities Systems B (PC-SYB)

- RC works at SyB-LT1 & ST1 is in-progress.
- RC works to escalator pit P3 to P4 and P4 to P6 (Escalator No. E3 &E4, E5&E6)
- Welding works for footbridge steel frame erection.
- Preparation works for watermain diversion near PC1 is in-progress.

Contract 4 (ED/2020/02)

- Excavation work for Drainage Works at Portion 2a, 6, 8, 9 & 12
- Drainage works at Portion 2a, 6, 8, 9 & 12
- Construction of Foundation at Portion 1a, 1b



- Construction of Retaining Wall and staircase at Portion 6, 8, 12
- Construction of Planter at Portion 8,12
- Slope works at Portion 10, Portion 17
- Preparation works for Construction of bridge at Portion 13b
- Modification works at REA10 and RWA9 at Portion 13b
- Road works at G2-Site at Portion 13b
- Fill Rock Slope at Portion 16

Contract 5 (ED/2019/02)

Portion 1

- Concreting for Escalator Trough P1 to P2 (Wall)
- Sump Pit Construction (Base Slab)
- Mobilization of 300T Crawler Crane for E1 & E2 Escalator Lifting
- Installation of Escalators (E3-E4)

Portion 2

- Cable & ELV Draw Pit Construction
- Pillar Box Construction
- Sump Pit Construction (Base Slab)
- Working Platform Erection for KPA
- Escalator Installation for E6

Portion 3

- Rock Breaking & ELS at E7-PC1 (4th Layer)
- Blinding Layer for E7-PC1
- Construction for E7 Reinforcement Storage & Bending Yard
- Rebar Bending & Formwork Erection for E7-PC1

Portion 4

- Rebar Fixing & Formwork Erection for E10-Lift Tower 7th Pour
- Concreting for E10-Lift Tower 6th Pour
- 2.3.2 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contracts 3, 4 and 5 are presented in *Tables 2-1, 2-2 and 2-3*.

 Table 2-1
 Status of Environmental Licenses and Permits of the Contract 3

| | | License/Permit Status | | | |
|------|--|--|--------------|-------------------|--------|
| Item | Description | Permit no./ account | Valid Period | | Status |
| | | no./ Ref. no. | From | То | |
| 1 | Form NA – Notification pursuant to Air Pollution Control (Construction Dust) Regulation | EPD ref. no. 434186 | 31-May-18 | NA | Valid |
| 2 | Chemical Waste Producer Registration | For Area R1W3 (E11) Registration no. WPN : 5213-294-C4239-04 | 6-Aug-18 | End of Project | Valid |
| | | For Area System A Registration no. WPN: 5213-293-C4239-05 | 6-Aug-18 | End of Project | Valid |
| | | For Area System B Registration no. WPN 5213-294-C4239-03 | 6-Aug-18 | End of Project | Valid |



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| | | Licen | se/Permit Sta | tus | |
|------|--------------------------------|---|---------------|--------------|-------|
| Item | Description | Permit no./ account | Valid | Valid Period | |
| | | no./ Ref. no. | From | То | |
| | | For Area E8 | 6-Aug-18 | End of | Valid |
| | | Registration no. WPN | | Project | |
| | | 5213-292-C4239-06 | | | |
| 3 | WaterPollutionControlOrdinance | <u>For Area R1W3 (E11)</u> WT00032742-2018 | 18-Jan-19 | 31-Jan-24 | Valid |
| | – Discharge License | For Area System A WT00033223-2019 | 31-Jan-19 | 31-Jan-24 | Valid |
| | | For Area System B WT00033229-2019 | 24-Jun-19 | 30-Jun-24 | Valid |
| | | For Area E8 WT00033224-2019 | 21-Mar-19 | 31-Mar-24 | Valid |
| 4 | Waste Disposal | Account no.7031075 | 20-Jun-18 | End of | Valid |
| | Regulation – | | | project | |
| | Billing Account for | | | | |
| | Disposal of | | | | |
| | Construction Waste | | | | |

| Table 2-2 | Status of Environmental Licenses and Permits of the Contract 4 |
|-----------|--|
| | |

| | | License/Permit Status | | | |
|------|---------------------|-----------------------|------------|--------------|-------|
| Item | Description | Permit no./ account | Valid | Valid Period | |
| | | no./ Ref. no. | From | То | |
| 1 | Form NA – | EPD ref. no. 470496 | 19 August | NA | Valid |
| | Notification | | 2021 | | |
| | pursuant to Air | | | | |
| | Pollution Control | | | | |
| | (Construction Dust) | | | | |
| | Regulation | | | | |
| 2 | Waste Disposal | Account no. 7041336 | 6 | NA | Valid |
| | Regulation – | | September | | |
| | Billing Account for | | 2021 | | |
| | Disposal of | | | | |
| | Construction Waste | | | | |
| 3 | Chemical Waste | Registration no. | 14 | End of | |
| | Producer | WPN 5213-296-C1206-12 | September | project | Valid |
| | Registration | | 2021 | | |
| 4 | Water Pollution | WT00043000-2003 | 30 January | 31 January | Valid |
| | Control Ordinance | | 2023 | 2028 | |
| | – Discharge | | | | |
| | License | | | | |

| | | se/Permit Sta | it Status | | |
|------|--|---------------------|--------------|----|--------|
| Item | Description | Permit no./ account | Valid Period | | Status |
| | | no./ Ref. no. | From | То | |
| 1 | Form NA – Notification pursuant to Air Pollution Control (Construction Dust) Regulation | EPD ref. no. 466255 | NA | NA | Valid |



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| | | License/Permit Status | | | | |
|------|--------------------------------------|-----------------------|------------|--------------|-------|--|
| Item | Description | Permit no./ account | Valid | Valid Period | | |
| | | no./ Ref. no. | From | То | | |
| 2 | Chemical Waste | Registration no. | | End of | | |
| | Producer | WPN 5298-293-W3611-01 | 12 May 21 | project | Valid | |
| | Registration | | | | | |
| 3 | Water Pollution Control Ordinance | WT00039694-2021 | 16 Nov 21 | 30 Nov 26 | Valid | |
| | – Discharge License | WT00040919-2022 | 5 May 22 | 31 May 27 | Valid | |
| | | WT00041457-2022 | 30 June 22 | 30 June 27 | Valid | |
| | | WT00040670-2022 | 28 Mar 22 | 31 Mar 27 | Valid | |
| 4 | Waste Disposal | Account no. 7040359 | 3 May 21 | NA | Valid | |
| | Regulation – | | | | | |
| | Billing Account for | | | | | |
| | Disposal of | | | | | |
| | Construction Waste | | | | | |



3. SUMMARY OF IMPACT MONITORING REQUIREMENTS

3.1 GENERAL

- 3.1.1 The Environmental Monitoring and Audit requirements are set out in the Approved EM&A manual. Environmental issues such as air quality, construction noise and water quality were identified as the key issues during the construction phase of the Project.
- 3.1.2 A summary of construction phase EM&A requirements are presented in the sub-sections below.

3.2 MONITORING PARAMETERS

- 3.2.1 The EM&A program of construction phase monitoring shall cover the following environmental issues:
 - Air quality; and
 - Construction noise
- 3.2.2 A summary of the monitoring parameters is presented in *Table 3-1*.

Table 3-1Summary of EM&A Requirements

| Environmental Issue | Parameters |
|---------------------|--|
| Air Quality | • 1-hour TSP by Real-Time Portable Dust Meter; and |
| Air Quality | 24-hour TSP by High Volume Air Sampler |
| | • Leq(30min) in normal working days (Monday to Saturday) |
| Noise | 07:00-19:00 except public holiday |
| INDISC | • Supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference. |

3.3 MONITORING LOCATIONS

3.3.1 According to the EM&A Manual Section 4.6, seven (7) most representative and affected air sensitive receivers (ASR) were selected as air monitoring stations (AQM). During site visit at the subject site before the baseline monitoring, it was noted that some planned ASRs identified in the EM&A Manual are still under construction/ has not yet constructed and there were no suitable location to set up the high volume sampler to carry out the baseline 24-hour TSP monitoring. Therefore, a proposed change for the baseline monitoring programme was submitted and agreed by EPD before the baseline monitoring. The impact air quality monitoring locations are listed in *Table 3-2* and illustrated in *Appendix D*.

| Table 5-2 Impact Monitoring Stations – Air Quanty | | | | | |
|---|------------------|--|---|--------------------|--|
| ID | ASR ID in EIA | Location in the EM&A Manual | Identified Location during Site Visit | Status | |
| AMS-1 | ACYC-01 | Chi Yum Ching She | Ground of Chi Yum Ching facing the project site | Replaced by AMS-1a | |
| AMS-1a (*) | ACYC-01 | TanShanVillage No. 5 - 6 | Ground of Tan Shan Village No. 5 - 6 facing the project site | Active | |
| AMS-2 (#) | DARB-13 | Block 8, Site B | Ground of Fung Tai House of On Tai Estate | Active | |
| AMS-3 (:) | DARC-16 | Planned Clinic and Community Centre, Site C2 | Ground of Planned Clinic and Community Centre facing Anderson Road (Ancillary Facilities Building) | Active | |
| AMS-4 (:) | DARC-26 | Planned School, Site C2 Note 1 | Ground of Active | Active | |
| AMS-5 | DARE-06 | Block 5, DAR Site E | Main roof of Oi Tat House of On Tat Estate facing the project site | Active | |
| AMS-6 | DARE-17 | Block 9, Site E | Main roof of Hau Tat House of | Active | |

 Table 3-2
 Impact Monitoring Stations – Air Quality

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| ID | ASR ID in EIA | Location in the EM&A Manual | Identified Location during Site Visit | Status |
|-------|------------------|--------------------------------|---|--------|
| | | | On Tat Estate facing the project site | |
| AMS-7 | AMYT-04 | Ma Yau Tong Village | Balcony at 2 nd floor of Village House Anderson Road No. 1 facing the project site | Active |

Note 1: The ASR is under construction.

(#) AMS-2 was activated on 26 November 2018 since Fung Tai House became an air sensitive receiver. 1-hour TSP monitoring was commenced on 26 November 2018 while installation of HVS for 24-hour TSP was pending approval from Housing Authority.

(*) 24-hour TSP monitoring at AMS1 was abandoned since May 2019 due to lack of power supply and the landlord was unreachable. The alternation location of AMS1a was activated on 15 June 2019 for 1-hour and 24-hour TSP monitoring. The proposal was agreed by EPD on 9 Aug 2019. (:) AMS-3 was effective on 3 December 2019 and AMS-4 was effective on 4 January 2023

Construction Noise

3.3.2 According to the EM&A Manual Section 5.5, three (3) most representative and affected noise sensitive receivers (NSR) were selected as monitoring stations. As recommended by the RE and agreed by IEC, one (1) additional noise monitoring location is proposed to add in Oi Tat House of On Tat Estate (hereafter "NMS-4") to oversee the possible noise impact pose to the resident in On Tat Estate, which is an existing NSR close to the major works activities. Moreover, review of impact monitoring location was proposed to IEC in view of the current site condition and it was agreed by all parties. The details of noise monitoring location are listed in Table 3-3 and illustrated in Appendix D.

| Table 3-3 | 5 Impact Montoring Stations – Construction Noise | | | | |
|-----------|--|---|-----------|--|--|
| ID | NSR ID in EIA | Location | Status | | |
| NMS-1(:) | Site C2 – School 05 ^{Note 1} | Ground of Maryknoll Secondary School | Active | | |
| NMS-2(:) | Site E – School | Rooftop of S.K.H. St. John's Tsang Shiu Tim Primary School, where 1m from the exterior of the building facing the project site | Active | | |
| NMS-3(:) | Site C2 – R102– | Ground of Ancillary Facilities Building facing the project site | Active | | |
| NMS-4* | Oi Tat House | 1m from the exterior of ground floor façade of Oi Tat House of On Tat Estate facing the project site | Suspended | | |
| NMS-4a# | Oi Tat House | Rooftop of Oi Tat House where 1m from the exterior of Oi Tat House facing the project site | Active | | |
| NMS-5# | Hau Tat House | 22/F, refuge floor of Hau Tat House where 1m from the exterior of Hau Tat House facing the project site. | Active | | |
| NMS-6~ | Yung Tai House of On Tai Estate | Rooftop of Yung Tai House where 1m from the exterior of the building facing the project site) | Active | | |
| NMS-7~ | Chi Tai House of On Tai Estate | Rooftop of Chi Tai House where 1m from the exterior of the building facing the project site | Active | | |
| NMS-8^ | No. 3-4 Ma Yau Tong Village | 1m from the exterior of the building façade and facing the construction site | Active | | |

Table 3-3 **Impact Monitoring Stations – Construction Noise**



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| ID | NSR ID in EIA | Location | Status | | |
|---|--|------------------------------|--------|--|--|
| Note 1: | Construction of th | he NSR is not yet commenced. | | | |
| (*) Additional noise monitoring location was recommended by RE and agreed by IEC. It was temporary suspended and the monitoring location is relocated to NMS4a with effective on 15 Nov 2017. | | | | | |
| (:) | NMS-2 was effective on 15 November 2019, NMS-3 was effective on 3 December 2019 and NMS-1 was effective on 4 January 2023. | | | | |
| (#) | <i>Review of noise monitoring locations was proposed by ET and NMS-5 was effective on 15 November 2017.</i> | | | | |
| \tilde{O} | (`) Review of noise monitoring locations was proposed by ET and NMS-6 and NMS-7 we effective on 28 Feb 2018. | | | | |
| Ò | () Review of noise monitoring locations was proposed by ET and NMS-8 was effective 18 April 2018. Noise monitoring at NMS-8 was started on 3 May 2018 upon commencement of construction at relevant section. | | | | |

3.3.3 A Work Instruction was issued from AECOM to AUES in November 2018 for installing three additional noise monitoring stations under Contract 3. According to the Work Instruction, one noise monitoring station was proposed to install at System A Area and two station monitoring points were proposed to install at E8 Area. The noise monitoring locations are shown in *Table 3-4* below and illustrated in *Appendix D*.

| Table 3-4 Add | litional Impact Mo | nitoring Stations – (| Construction Noise |
|---------------|--------------------|-----------------------|--------------------|
|---------------|--------------------|-----------------------|--------------------|

| ID | Location | Description |
|------|----------------------------------|---|
| CN1* | Holm Glad College | Ground floor of Holm Glad College, where 1m from the exterior of the building facing E8 |
| CN2* | Leung Shek Chee College | Ground floor of Leung Shek Chee College, where 1m from the exterior of the building facing E8 |
| CN3 | Oi Tat House of On Tat Estate | Ground floor of Oi Tat House of On Tat Estate, where 1m from the exterior of the building facing System A |

Note 1: Construction of the NSR is not yet commenced.

(*) Additional noise monitoring location was terminated by RE as the construction work at E8 was completed in September 2022. The last monitoring for CN1&CN2 was on 15 September 2022.

3.4 MONITORING FREQUENCY AND PERIOD

3.4.1 The requirements of impact monitoring in the approved *EM&A Manual* and presented as follows.

Air Quality Monitoring

- 3.4.2 Frequency of impact air quality monitoring is as follows:
 - 1-hour TSP 3 times every six days during course of works throughout the construction period
 - 24-hour TSP Once every 6 days during course of works throughout the construction period

Noise Monitoring

- 3.4.3 Noise monitoring will be to conduct at the all available designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - one set of Leq_(30min) measurements between 07:00 and 19:00 hours on normal weekdays



3.5 MONITORING EQUIPMENT

Air Quality Monitoring

3.5.1 The 24-hour and 1-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the *Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50)*, Appendix *B*. If the ET proposes to use a direct reading dust meter to measure 1-hour TSP levels, it shall submit sufficient information to the IEC to prove that the instrument is capable of achieving a comparable results to the HVS. The instrument should be calibrated regularly, and the 1-hour sampling shall be determined on yearly basis by the HVS to check the validity and accuracy of the results measured by direct reading method. The filter paper of 24-hour TSP measurement shall be determined by HOKLAS accredited laboratory.

3.5.2 All equipment to be used for air quality monitoring is listed in *Table 3-5*.

Table 3-5Air Quality Monitoring EquipmentEquipmentModel24-hour TSPHigh Volume Air SamplerTISCH High Volume Air Sampler, HVS Model
TE-517024-hour TSPCalibration KitTISCH Model TE-5025A1- hour TSPPortable Dust MeterSibata LD-3B Laser Dust Monitor

Noise Monitoring

- 3.5.3 Sound level meter in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. The sound level meter shall be checked using an acoustic calibrator. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in ms-1.
- 3.5.4 Noise equipment as perform for construction phase monitoring is listed in *Table 3-6*.

Table 3-6Construction Noise Monitoring Equipment

| Equipment | Model |
|-------------------------------|-------------------------------|
| Integrating Sound Level Meter | NL-31, NL-52 |
| Calibrator | NC-73, NC-74 |
| Portable Wind Speed Indicator | Anemometer AZ Instrument 8908 |

3.6 MONITORING METHODOLOGY

1-hour TSP

- 3.6.1 The 1-hour TSP monitor was a brand named "Sibata LD-3 Laser Dust monitor Particle Mass Profiler & Counter" which is a portable, battery-operated laser photometer. The 1-hour TSP meter provides a real time 1-hour TSP measurement based on 90° light scattering. The 1-hour TSP monitor consists of the following:
 - (a.) A pump to draw sample aerosol through the optic chamber where TSP is measured;
 - (b.) A sheath air system to isolate the aerosol in the chamber to keep the optics clean for maximum reliability; and
 - (c.) A built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.
- 3.6.2 The 1-hour TSP meter to be used will be within the valid period, calibrated by the manufacturer prior to purchasing. Zero response of the instrument will be checked before and after each monitoring event.

24-hour TSP

3.6.3 The equipment used for 24-hour TSP measurement is Thermo Andersen Model GS2310 TSP



high volume air sampling system, which complied with *EPA Code of Federal Regulation*, *Appendix B to Part 50*. The High Volume Air Sampler (HVS) consists of the following:

- (a.) An anodized aluminum shelter;
- (b.) A 8"x10" stainless steel filter holder;
- (c.) A blower motor assembly;
- (d.) A continuous flow/pressure recorder;
- (e.) A motor speed-voltage control/elapsed time indicator;
- (f.) A 7-day mechanical timer, and
- (g.) A power supply of 220v/50 Hz
- 3.6.4 For HVS for 24-hour TSP monitoring, the HVS is mounted in a metallic cage with a top for protection and also it is sat on the existing ground or the roof of building. The flow rate of the HVS between 0.6m³/min and 1.7m³/min will be properly set in accordance with the manufacturer's instruction to within the range recommended in *EPA Code of Federal Regulation, Appendix B to Part 50*. Glass Fiber Filter 8" x 10" of TE-653 will be used for 24-Hour TSP monitoring and would be supplied by laboratory. The general procedures of sampling are described as below:-
 - A horizontal platform with appropriate support to secure the samples against gusty wind should be provided;
 - No two samplers should be placed less than 2 meters apart;
 - The distance between the sampler and an obstacle, such as building, must be at least twice the height that the obstacle protrudes above the sample;
 - A minimum of 2 meters of separation from any supporting structure, measured horizontally is required;
 - Before placing any filter media at the HVS, the power supply will be checked to ensure the sampler work properly;
 - The filter paper will be set to align on the screen of HVS to ensure that the gasket formed an air tight seal on the outer edges of the filter. Then filter holder frame will be tightened to the filter hold with swing bolts. The holding pressure should be sufficient to avoid air leakage at the edge;
 - The mechanical timer will be set for a sampling period of 24 hours (00:00 mid-night to 00:00 mid-night next day). Information will be recorded on the field data sheet, which would be included the sampling data, starting time, the weather condition at current and the filter paper ID with the initial weight;
 - After sampling, the filter paper will be collected and transfer from the filter holder of the HVS to a sealed envelope and sent to a local HOKLAS accredited laboratory for quantifying.
- 3.6.5 All the sampled 24-hour TSP filters will be kept in normal air conditioned room conditions, i.e. 70% HR (Relative Humidity) and 25°C, for six months prior to disposal.
- 3.6.6 The HVS used for 24-hour TSP monitoring will be calibrated before the commencement for sampling, and after in two months interval for 1 point checking of maintenance and six months interval for five points calibrate in accordance with the manufacturer's instruction using the NIST-certified standard calibrator (Tisch Calibration Kit Model TE-5025A) to establish a relationship between the follow recorder meter reading in cfm (cubic feet per minute) and the standard flow rate, Qstd, in m³/min. Motor brushes of HVS will be regularly replaced of about five hundred hours per time. The calibration certificates of all monitoring equipment used for the impact monitoring program in the Reporting Period and the HOKLAS accredited certificate of laboratory are attached in *Appendix E*.

Noise Monitoring

3.6.7 As referred to in the Technical Memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979



(Type 1) and 804:1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

- 3.6.8 All noise measurements will be performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (Leq). Leq_(30 min) in six consecutive Leq_(5 min) measurements will be used as the monitoring parameter for the time period between 07:00-19:00 hours on weekdays throughout the construction period.
- 3.6.9 The sound level meter will be mounted d on a tripod at a height of 1.2 m and placed at the assessment point and oriented such that the microphone is pointed to the site with the microphone facing perpendicular to the line of sight. The windshield will be fitted for all measurements. Where a measurement is to be carried out at a building, the assessment point would normally be at a position 1 m from the exterior of the building façade. Where a measurement is to be made for noise being received at a place other than a building, the assessment point would be at a position 1.2 m above the ground in a free-field situation, i.e. at least 3.5 m away from reflective surfaces such as adjacent buildings or walls.
- 3.6.10 Immediately prior to and following each noise measurement the accuracy of the sound level meter will be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements will be accepted as valid only if the calibration level from before and after the noise measurement agrees to within 1.0 dB.
- 3.6.11 Noise measurements will not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed will be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.6.12 The sound level meter and calibrator are calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme at yearly basis. The calibration certificates of all monitoring equipment used for the impact monitoring program in the Reporting Period is attached in *Appendix E*.

Meteorological Information

3.6.13 The meteorological information including wind direction, wind speed, humidity, rainfall, air pressure and temperature etc. during baseline monitoring is extracted from the closest Hong Kong Observatory Station. To obtain the most appropriate meteorological information where available, the data of temperature is extracted from the Kwun Tong Observatory Station; the data of wind speed and wind direction are extracted from Kai Tak Observatory Station and the data of humidity is extracted from King's Park Station.

3.7 DERIVATION OF ACTION/LIMIT (A/L) LEVELS

3.7.1 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. According to the approved Environmental Monitoring and Audit Manual, the air quality, construction noise were set up, namely Action and Limit levels are listed in *Tables* 3-7 and 3-8.

| Monitoring Station | Action Level (µg /m ³) | | Limit Level (µg/m ³) | |
|---------------------------|------------------------------------|-------------|----------------------------------|-------------|
| Monitoring Station | 1-hour TSP | 24-hour TSP | 1-hour TSP | 24-hour TSP |
| AMS-1 | 313 | 154 | 500 | 260 |
| AMS-1a(*) | 313 | 154 | 500 | 260 |
| AMS-2 | 319 | 165 | 500 | 260 |
| AMS-3 | 319 | 165 | 500 | 260 |
| AMS-4 | 315 | 165 | 500 | 260 |

 Table 3-7
 Action and Limit Levels for Air Quality Monitoring

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| Monitoring Station | Action Lev | Action Level (µg /m ³) | | Limit Level (µg/m ³) | |
|--------------------|------------|------------------------------------|------------|----------------------------------|--|
| Monitoring Station | 1-hour TSP | 24-hour TSP | 1-hour TSP | 24-hour TSP | |
| AMS-5 | 299 | 166 | 500 | 260 | |
| AMS-6 | 303 | 168 | 500 | 260 | |
| AMS-7 | 307 | 156 | 500 | 260 | |

(*) 24-hour TSP monitoring at AMSI was abandoned since May 2019 due to lack of power supply and the landlord was unreachable. The alternation location of AMS1a was activated on 15 June 2019 for 1-hour and 24-hour TSP monitoring. The proposal was agreed by EPD on 9 Aug 2019.

| Table 3-8 | Action and Li | mit Levels for | Construction Noise |
|-----------|---------------|----------------|--------------------|
| | | | |

| Monitoring Logotion | Action Level | Limit Level in dB(A) | | |
|---------------------|---|---|--|--|
| Monitoring Location | Time Period: 0700-1900 hours on normal weekdays | | | |
| NMS-1 | | $70 \text{ dB(A)}^{\text{Note 1}} / 65 \text{ dB(A)}^{\text{Note 1}}$ | | |
| NMS-2(@) | | 70 dB(A) = 703 dB(A) | | |
| NMS-3(:) | | 75 dB(A) | | |
| NMS-4* | When one or more documented | 75 dB(A) | | |
| NMS-4a# | | 75 dB(A) | | |
| NMS-5# | | 75 dB(A) | | |
| NMS-6~ | complaints are received | 75 dB(A) | | |
| NMS-7~ | | 75 dB(A) | | |
| NMS-8^ | | 75 dB(A) | | |
| CN1+ | | $70 \text{ dB(A)}^{\text{Note 1}} / 65 \text{ dB(A)}^{\text{Note 1}}$ | | |
| CN2+ | | $70 \text{ dB(A)}^{\text{Note 1}} / 65 \text{ dB(A)}^{\text{Note 1}}$ | | |
| CN3+ | | 75 dB(A) | | |

Noise Limit Levels for school is 70dB(A) and should be reduced to 65dB(A) during Note 1: examination period.

If works are to be carried out during restricted hours, the conditions stipulated in the Note: construction noise permit issued by the Noise Control Authority have to be followed.

Remark: (*) Additional noise monitoring location was recommended by RE and agreed by IEC. It was temporary suspended and the monitoring location is relocated to NMS4a with effective on 15 Nov 2017.

(@) NMS-2 was effective on 15 November 2019.

(:) NMS-3 was effective on 3 December 2019

(#) Review of noise monitoring locations was proposed by ET and NMS-5 was effective on 15 Nov 2017.

(~) Review of noise monitoring locations was proposed by ET and NMS-6 and NMS-7 were effective on 28 Feb 2018.

(^) Review of noise monitoring locations was proposed by ET and NMS-8 was effective on 18 April 2018. Noise monitoring at NMS-8 was started on 3 May 2018 upon commencement of construction at relevant section.

(+) Additional noise monitoring locations as instructed by AECOM which effective in Dec 18.

3.7.2 Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix F*.

3.8 DATA MANAGEMENT AND DATA OA/OC CONTROL

- 3.8.1 All monitoring data will be handled by the ET's in-house data recording and management system. The monitoring data recorded in the equipment will be downloaded directly from the equipment at the end of each monitoring day. The downloaded monitoring data will input into a computerized database properly maintained by the ET. The laboratory results will be input directly into the computerized database and checked by personnel other than those who input the data.
- For monitoring parameters that require laboratory analysis, the local laboratory shall follow the 3.8.2 QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



4 AIR QUALITY MONITORING

4.1 GENERAL

- 4.1.1 In the Reporting Period, air quality monitoring was performed at the active designated monitoring locations AMS-1a, AMS-2, AMS-3, AMS-4, AMS-5, AMS-6 and AMS-7. Since installation of HVS for 24-hour TSP at AMS-2, AMS-3 and AMS-4 were pending approval from relevant departments, only 1-hour TSP monitoring was conducted at AMS-2, AMS-3 and AMS-4. Liaise with the Maryknool Secondary School of AMS-4 for installation of monitoring equipment at rooftop is in progress.
- 4.1.2 The air quality monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

4.2 **RESULTS OF AIR QUALITY MONITORING**

4.2.1 In the Reporting Period, a total of *105* events of 1-hour TSP monitoring and *20* events of 24-hours TSP were carried out and the monitoring results are summarized in *Tables 4-1 to 4-5*. The detailed 24-hour TSP monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

| | 24-hour | | 1-hour | TSP (µg/m ³ |) | |
|--------------------|-----------------------------|----------------|---------------|----------------------------|----------------------------|----------------------------|
| Date | TSP (µg/m ³) | Date | Start Time | 1 st reading | 2 nd reading | 3 rd reading |
| 5-Oct-23 | 29 | 4-Oct-23 | 13:58 | 48 | 52 | 51 |
| 11-Oct-23 | 18 | 10-Oct-23 | 14:00 | 51 | 46 | 47 |
| 17-Oct-23 | 39 | 16-Oct-23 | 14:00 | 63 | 63 | 62 |
| 21-Oct-23 | 25 | 20-Oct-23 | 9:00 | 54 | 58 | 61 |
| 27-Oct-23 | 18 | 26-Oct-23 | 14:00 | 66 | 63 | 67 |
| Average (Range) | 26 (18 - 39) | Avera (Rang | - | | 57 (46 - 67) | |

 Table 4-1
 Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-1a)

Table 4-2Summary of 1-hour TSP Monitoring Results (AMS-2)

| | 1-hour TSP (μg/m³) | | | | |
|-----------|--------------------|-------------------------|-------------------------|-------------------------|--|
| Date | Start Time | 1 st reading | 2 nd reading | 3 rd reading | |
| 4-Oct-23 | 9:15 | 28 | 33 | 35 | |
| 10-Oct-23 | 9:15 | 36 | 46 | 49 | |
| 16-Oct-23 | 9:20 | 68 | 65 | 70 | |
| 20-Oct-23 | 9:30 | 56 | 60 | 58 | |
| 26-Oct-23 | 9:15 | 66 | 76 | 84 | |
| Average | e (Range) | | 55 (28 - 84) | | |

Table 4-3Summary of 1-hour TSP Monitoring Results (AMS-3)

| | 1-hour TSP (µg/m³) | | | | |
|-----------|--------------------|-------------------------|-------------------------|-------------------------|--|
| Date | Start Time | 1 st reading | 2 nd reading | 3 rd reading | |
| 4-Oct-23 | 9:00 | 46 | 50 | 48 | |
| 10-Oct-23 | 9:00 | 31 | 30 | 35 | |
| 16-Oct-23 | 9:00 | 57 | 59 | 64 | |
| 20-Oct-23 | 13:00 | 55 | 60 | 57 | |
| 26-Oct-23 | 9:00 | 59 | 59 | 65 | |
| Average | e (Range) | | 52 (30 - 65) | | |

Table 4-4 Summary of 1-hour TSP Monitoring Results (AMS-4)

| 1-hour TSP (µg/m ³) | | | | |
|---------------------------------|------------|-------------------------|-------------------------|-------------------------|
| Date | Start Time | 1 st reading | 2 nd reading | 3 rd reading |

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| 1-hour TSP (μg/m³) | | | | |
|--------------------|------------|-------------------------|-------------------------|-------------------------|
| Date | Start Time | 1 st reading | 2 nd reading | 3 rd reading |
| 4-Oct-23 | 13:00 | 60 | 57 | 59 |
| 10-Oct-23 | 9:02 | 66 | 63 | 48 |
| 16-Oct-23 | 9:00 | 39 | 36 | 33 |
| 20-Oct-23 | 9:04 | 48 | 38 | 44 |
| 26-Oct-23 | 13:00 | 59 | 63 | 65 |
| Average | e (Range) | | 52 (33 - 66) | |

| Table 4-5 | Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-5) |
|-----------|--|
|-----------|--|

| | 24-hour | 1-hour TSP (µg/m ³) | | | | | |
|-----------|-----------------------------|---------------------------------|---------------|-------------------------|-------------------------|-------------------------|--|
| Date | TSP (µg/m ³) | Date | Start Time | 1 st reading | 2 nd reading | 3 rd reading | |
| 5-Oct-23 | 60 | 4-Oct-23 | 9:05 | 51 | 55 | 53 | |
| 11-Oct-23 | 29 | 10-Oct-23 | 13:01 | 44 | 38 | 40 | |
| 17-Oct-23 | 92 | 16-Oct-23 | 14:08 | 30 | 32 | 32 | |
| 21-Oct-23 | 39 | 20-Oct-23 | 14:20 | 20 | 20 | 20 | |
| 27-Oct-23 | 38 | 26-Oct-23 | 9:05 | 62 | 57 | 59 | |
| Average | 51 | Average | | 41 | | | |
| (Range) | (29 – 92) | (Rang | e) | (20-62) | | | |

Table 4-6

Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-6)

| | 24-hour | 1-hour TSP (μg/m³) | | | | | |
|--------------------|-----------------------------|--------------------|---------------|-------------------------|-------------------------|-------------------------|--|
| Date | TSP (μg/m ³) | Date | Start Time | 1 st reading | 2 nd reading | 3 rd reading | |
| 5-Oct-23 | 13 | 4-Oct-23 | 9:45 | 50 | 54 | 56 | |
| 11-Oct-23 | 19 | 10-Oct-23 | 13:45 | 43 | 47 | 51 | |
| 17-Oct-23 | 40 | 16-Oct-23 | 13:01 | 32 | 36 | 39 | |
| 21-Oct-23 | 19 | 20-Oct-23 | 13:19 | 17 | 24 | 30 | |
| 27-Oct-23 | 20 | 26-Oct-23 | 9:45 | 58 | 54 | 57 | |
| Average (Range) | 22 (22 - 40) | Average (Range) | | 43 (17 - 58) | | | |

Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-7)

| i | | | | | | |
|--------------------|-----------------------------|--------------------|---------------|-------------------------|-------------------------|-------------------------|
| | 24-hour | 1-hour TSP (μg/m³) | | | | |
| Date | TSP (μg/m ³) | Date | Start Time | 1 st reading | 2 nd reading | 3 rd reading |
| 5-Oct-23 | 70 | 4-Oct-23 | 13:00 | 30 | 32 | 26 |
| 11-Oct-23 | 30 | 10-Oct-23 | 13:00 | 36 | 29 | 32 |
| 17-Oct-23 | 81 | 16-Oct-23 | 13:00 | 71 | 74 | 70 |
| 21-Oct-23 | 34 | 20-Oct-23 | 14:00 | 62 | 65 | 59 |
| 27-Oct-23 | 41 | 26-Oct-23 | 13:00 | 71 | 82 | 85 |
| Average (Range) | 51 (30 - 81) | Average (Range) | | | 55 (26 – 85) | |



- 4.2.2 As shown in *Tables 4-1 to 4-6*, all the 1-hour TSP and 24-hour TSP monitoring results in the Reporting Period were below the Action and Limit Levels. No Notification of Exceedance (NOE) was issued in this Reporting Period.
- 4.2.3 The meteorological data during the impact monitoring days are summarized in *Appendix J*.



5 CONSTRUCTION NOISE MONITORING

5.1 GENERAL

- 5.1.1 In the Reporting Period, noise monitoring was performed at designated monitoring locations NMS1, NMS2 and NMS3 and the additional monitoring locations NMS4a, NMS5, NMS6, NMS7 and NMS8.
- 5.1.2 In addition, a Work Instruction was issued from AECOM to AUES in November 2018 for installing three additional noise monitoring stations, i.e., CN1, CN2 and CN3 for Contract 3. Impact noise monitoring was performed at the three additional noise monitoring locations since December 2018. Additional noise monitoring location was terminated by RE as the construction work at E8 was completed in September 2022. The last monitoring for CN1 & CN2 was on 15 September 2022.
- 5.1.3 The noise monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

5.2 NOISE MONITORING RESULTS IN REPORTING MONTH

5.2.1 In the Reporting Period, a total of 40 events noise measurements were carried out at the designated locations under Contract 1. The noise monitoring results at the designated locations are summarized in *Tables 5-1*. The detailed noise monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

| Construction Noise Level (L _{eq30min}), dB(A) | | | | | | | | |
|---|----------------|--|----------|-------|------|------|------|------|
| Date | NMS1 | NMS2 | NMS3 | NMS4a | NMS5 | NMS6 | NMS7 | NMS8 |
| 4-Oct-23 | 72 | 59 | 59 | 67 | 61 | 65 | 58 | 55 |
| 10-Oct-23 | 71 | 58 | 59 | 69 | 60 | 61 | 62 | 54 |
| 16-Oct-23 | 71 | 56 | 61 | 68 | 64 | 61 | 57 | 57 |
| 20-Oct-23 | 71 | 54 | 59 | 68 | 62 | 58 | 56 | 55 |
| 26-Oct-23 | 71 | 51 | 59 | 65 | 53 | 57 | 54 | 47 |
| Limit Level | 70 dB(dB(A | (A) / 65 (A) ^{Note 1} | 75 dB(A) | | | | | |

 Table 5-1
 Summary of Construction Noise Monitoring Results for Contract 1

Note 1: Noise Limit Levels for school is 70dB(A) and should be reduced to 65dB(A) during examination period

- 5.2.2 As shown in above table, the noise measurement result at NMS1 on 4, 10, 16, 20 and 26 October 2023 was 72, 71, 71, 71 and 71 dB(A), which exceeded the Limit Level. The baseline noise level measured at NMS1 was 69.0 dB(A), and baseline noise correction should be applied to the impact monitoring result, where exceedance occurred. With reference to the baseline, the corrected construction noise level at NMS1 on 4, 10, 16, 20 and 26 October 2023 is 69, 66.7, 66.7 and 66.7 dB(A), which fall within the Limit Level.
- 5.2.3 For the additional noise monitoring under Contract 3, a total of 5 events noise measurements were performed for the Contract. The noise monitoring results are summarized in *Tables 5-2*. The detailed noise monitoring data are presented in *Appendix H* and the relevant graphical plots are shown in *Appendix I*.

Table 5-2Summary of Construction Noise Monitoring Results for Contract 3

| Construction Noise Level (Leq30min), dB(A) | | | | |
|--|-----|--|--|--|
| Date | CN3 | | | |
| 4-Oct-23 | 62 | | | |
| 10-Oct-23 | 60 | | | |
| 16-Oct-23 | 61 | | | |
| 20-Oct-23 | 62 | | | |



| Construction Noise Level (Leq30min), dB(A) | | | | |
|--|----------|--|--|--|
| Date CN3 | | | | |
| 26-Oct-23 | 61 | | | |
| Limit Level | 75 dB(A) | | | |
| | | | | |

Note 1: Noise Limit Levels for school is 70dB(A) and should be reduced to 65dB(A) during examination period.

5.2.4 As shown in *Tables 5-1 and 5-2*, no Limit Level exceedance was recorded in this Reporting Period. No noise complaint (which triggered Action level exceedance) was received under the Project.



6 WASTE MANAGEMENT

6.1 GENERAL WASTE MANAGEMENT

6.1.1 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time.

6.2 **RECORDS OF WASTE QUANTITIES**

- 6.2.1 All types of waste arising from the construction work are classified into the following:
 - Construction & Demolition (C&D) Material;
 - Chemical Waste;
 - General Refuse; and
 - Excavated Soil.
- 6.2.2 The quantities of waste for disposal in this Reporting Period are summarized in *Tables 6-1* and *6-2* and the Monthly Summary Waste Flow Table is shown in *Appendix K*. Whenever possible, materials were reused on-site as far as practicable.

| Type of | Cont | ract 3 | Con | tract 4 | Contract 5 | |
|--|----------|----------------------|----------|----------------------|------------|----------------------|
| Waste | Quantity | Disposal Location | Quantity | Disposal Location | Quantity | Disposal Location |
| Total generated Inert C&D Materials ('000m ³) (#) | 1.037 | _ | 0.495 | - | 0.189 | - |
| Hard Rock and Large Broken Concrete ('000m ³) | 0 | _ | 0 | - | 0.187 | - |
| Reused in this Contract (Inert) ('000m ³) | 0.620 | - | 0 | - | 0.002 | - |
| Reused in other Projects (Inert) ('000m ³) | 0 | - | 0 | - | 0 | - |
| Disposal as Public Fill (Inert) ('000m ³) | 0.417 | TKO 137 | 0.495 | TKO 137 | 0.187 | TKO 137 |

Table 6-1Summary of Quantities of Inert C&D Materials

Remark (#): The total generated inert C&D materials will not take account for the hard rock and large broken concrete.

(*) Approved alternative disposal ground.



| | | Summar y or Qu | | | | |
|------------------|----------|----------------------|----------|----------------------|----------|----------------------|
| Type of | Co | Contract 3 | | Contract 4 | | tract 5 |
| Type of Waste | Quantity | Disposal Location | Quantity | Disposal Location | Quantity | Disposal Location |
| Recycled | | | | | | |
| Metal | 0.0118 | Licensed collector | 0 | - | 0 | - |
| ('000kg) | | | | | | |
| Recycled | | | | | | |
| Paper / | | | | - | | |
| Cardboard | 0 | Licensed collector | 0 | | 0 | - |
| Packing | | | | | | |
| ('000kg) | | | | | | |
| Recycled | | | | | | |
| Plastic | 0 | Licensed collector | 0 | - | 0 | - |
| ('000kg) | | | | | | |
| Chemical | | | | | | |
| Wastes | 0 | - | 0 | - | 0 | - |
| ('000kg) | | | | | | |
| General | | | | | | |
| Refuses | 0.029 | SENT | 0.055 | - | 0.072 | SENT |
| $(`000m^3)$ | | | | | | |

Table 6-2Summary of Quantities of C&D Wastes



7 SITE INSPECTION

7.1 REQUIREMENTS

7.1.1 According to the approved EM&A Manual, the environmental site inspection shall be formulation by ET Leader. Weekly environmental site inspections should be carried out to confirm the environmental performance.

7.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

Contract 3

7.2.1 In the Reporting Period, joint site inspections for Contract 3 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 6, 13, 20 and 27 October 2023 in which IEC joined the site inspection with SSEMC on 13 October 2023. No non-compliance was noted. The findings / deficiencies of *Contract 3* that observed during the weekly site inspection are listed in *Table 7-3*.

| Date | Findings / Deficiencies | Follow-Up Status |
|--------------------|---|------------------|
| 6 October 2023 | • No environmental issue was observed during site inspection. | • NA |
| 13 October 2023 | • No environmental issue was observed during site inspection. | • NA |
| 20 October 2023 | • The Contractor was reminded to remove stagnant water regularly. | Reminder only. |
| 27 October 2023 | • The Contractor was reminded to remove stagnant water regularly to prevent runout of site after rainy day. | Reminder only. |

Table 7-3Site Observations of Contract 3

Contract 4

7.2.2 In the Reporting Period, joint site inspections for Contract 4 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 4, 11, 19 and 25 October 2023 in which IEC joined the site inspection with SSEMC on 19 October 2023. No non-compliance was noted. The findings / deficiencies of *Contract 4* that observed during the weekly site inspection are listed in *Table 7-4*.

Table 7-4Site Observations of Contract 4

| Date | Findings / Deficiencies | Follow-Up Status |
|--------------------|--|---|
| 4 October 2023 | • The Contractor should clear the stagnant water inside drip tray. (Portion 1B) | • The Contractor was clean stagnant water inside drip tray. |
| 11 October 2023 | • The Contractor was reminded to clear stagnant water after rainy. | • Reminder only. |
| 19 October 2023 | • The Contractor was reminded to remove stagnant water to prevent runout of site wet season. | • Reminder only. |
| | • The Contractor was reminded to enhance good house-keeping. | • Reminder only. |
| 25 October 2023 | The Contractor was reminded to provide mitigation measures to avoid dust impact. | Reminder only. |

Contract 5



7.2.3 In the Reporting Period, joint site inspections for Contract 5 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 5, 12, 19 and 26 October 2023 in which IEC joined the site inspection on 26 October 2023. No non-compliance was noted. The findings / deficiencies of *Contract 5* that observed during the weekly site inspection are listed in *Table 7-5*

| Date | Findings / Deficiencies | Follow-Up Status |
|--------------------|--|--|
| 5 October 2023 | The Contractor should clean stagnant water inside drip tray. (E10) The Contractor should clean oil stain at haul road to prevent leak out. (E10) | The Contractor was remove stagnant water. The oil stain cleaned properly. |
| 12 October 2023 | The Contractor should remove or cover sandy stockpile properly to reduce dust impact. (E6) The Contractor should display the NRMM label clearly. (E6) The Contractor was reminded to enhance good house-keeping. | Sandy stockpile was removed to reduce dust impact. NRMM was displayed properly. Reminder only. |
| 19 October 2023 | Stopper should be provided for the drip tray to avoid leakage of any spilled chemical inside drip tray. (E10) The Contractor was reminded to remove stagnant water accumulated on site after rainy days. | The stopped was provided for the drip tray. Reminder only. |
| 26 October 2023 | • The Contractor was reminded to clean the stagnant water regularly to prevent runout after rainy day. | • Reminder only. |

Table 7-5Site Observations of Contract 5



8 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

8.1 Environmental Complaint, Summons and Prosecution

- 8.1.1 In the Reporting Period, no environmental complaint was received. Besides, no summons and prosecution under the EM&A Programme was lodged for the project.
- 8.1.2 The complaint log is shown in *Appendix M*.
- 8.1.3 The statistical summary table of environmental complaint, summons and prosecution is presented in *Tables 8-1, 8-2* and *8-3*.

| Donoutin a Douio d | Contract | Environmental Complaint Statistics | | |
|---------------------------|----------|------------------------------------|------------|-------------------------|
| Reporting Period | no. | Frequency | Cumulative | Complaint Nature |
| 31 May 2018 – 30 Sep 2023 | 3 | 0 | 8 | NA |
| 27 Sep 2021 – 30 Sep 2023 | 4 | 0 | 6 | NA |
| 30 Mar 2021 – 30 Sep 2023 | 5 | 0 | 0 | NA |
| | 1 | 0 | 65 | NA |
| | 2 | 0 | 10 | NA |
| 1 – 31 October 2023 | 3 | 0 | 8 | NA |
| | 4 | 0 | 6 | NA |
| | 5 | 0 | 0 | NA |

 Table 8-1
 Statistical Summary of Environmental Complaints

| Depenting Devied | Contract | Environmental Summons Statistics | | |
|---------------------------|----------|---|------------|-----------------------|
| Reporting Period | no. | Frequency | Cumulative | Summons Nature |
| 31 May 2018 – 30 Sep 2023 | 3 | 0 | 0 | NA |
| 27 Sep 2021 – 30 Sep 2023 | 4 | 0 | 0 | NA |
| 30 Mar 2021 – 30 Sep 2023 | 5 | 0 | 0 | NA |
| | 1 | 0 | 0 | NA |
| | 2 | 0 | 0 | NA |
| 1 – 31 October 2023 | 3 | 0 | 0 | NA |
| | 4 | 0 | 0 | NA |
| | 5 | 0 | 0 | NA |

Table 8-2Statistical Summary of Environmental Summons

| 1 able 0-5 Statistical Summary of Environmental Prosecution | Table 8-3 | Statistical Summary of Environmental Prosecution |
|---|-----------|---|
|---|-----------|---|

| Donouting David | Contract | Environmental Prosecution Statistics | | |
|---------------------------|----------|--------------------------------------|------------|---------------------------|
| Reporting Period | no. | Frequency | Cumulative | Prosecution Nature |
| 31 May 2018 – 30 Sep 2023 | 3 | 0 | 0 | NA |
| 27 Sep 2021 – 30 Sep 2023 | 4 | 0 | 0 | NA |
| 30 Mar 2021 – 30 Sep 2023 | 5 | 0 | 0 | NA |
| | 1 | 0 | 0 | NA |
| | 2 | 0 | 0 | NA |
| 1 – 31 October 2023 | 3 | 0 | 0 | NA |
| | 4 | 0 | 0 | NA |
| | 5 | 0 | 0 | NA |



9 IMPLEMENTATION STATUS OF MITIGATION MEASURES

9.1 GENERAL REQUIREMENTS

- 9.1.1 The environmental mitigation measures that recommended in the Implementation Schedule for Environmental Mitigation Measures (ISEMM) in the approved EM&A Manual covered the issues of dust, noise, water and waste and they are summarized presented in *Appendix L*.
- 9.1.2 All contracts under the Project shall be implementing the required environmental mitigation measures according to the approved EM&A Manual as subject to the site condition. Environmental mitigation measures generally implemented in this Reporting Period are summarized in *Table 9-1*.

| Table 7-1 | Environmental witugation weasures |
|-------------------------------------|--|
| Issues | Environmental Mitigation Measures |
| Water Quality | Wastewater to be treated by filtration system; such as, silt curtain or sedimentation tank before discharge. Replace silt curtain materials if necessary |
| Air Quality | Maintain damp / wet surface on access road Keep slow speed in the sites All vehicles must use wheel washing facility before off site All vehicles must use wheel washing facility before off site Sprayed water during breaking works |
| Noise | Restrain operation time of plants from 07:00 to 19:00 on any working day except for Public Holiday and Sunday. Keep good maintenance of plants Place noisy plants away from residence or school Provide noise barriers or hoarding to enclose the noisy plants or works Shut down the plants when not in used. |
| Waste and Chemical Management | On-site sorting prior to disposal Follow requirements and procedures of the "Trip-ticket System" Predict required quantity of concrete accurately Collect the unused fresh concrete at designated locations in the sites for subsequent disposal |
| General | The site was generally kept tidy and clean. |

 Table 9-1
 Environmental Mitigation Measures

9.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

Contract 3 (NE/2017/03)

Pedestrian Connectivity Facility System B (PC-SYB)

- RC works at SyB-LT1 &ST1 is in-progress.
- RC works to escalator pit P3 to P4 and P4 to P6 (Escalator No. E3 & E4, E5 & E6)
- Welding works for footbridge steel frame erection.
- Preparation works for watermain diversion near PC1 is in-progress.

Contract 4 (ED/2020/02)

- Excavation work for Drainage Works at Portion 2a, 6, 8, 9 & 12
- Drainage works at Portion 2a, 6, 8, 9 & 12
- Construction of Foundation at Portion 1a, 1b
- Construction of Retaining Wall and staircase at Portion 6, 8, 12
- Construction of Planter at Portion 8, 12
- Slope works at Portion 10, Portion 17
- Preparation works for Construction of bridge at Portion 13b
- Modification works at RWA10 and RWA9at Portion 13b
- Construction of precast beam for elevated walkway



- Road works at G2-Site at Portion 13b
- Fill Rock Slope at Portion 16

Contract 5 (ED/2019/02)

Portion 1

- Installation of Escalators (E1-E2)
- Installation of Escalators (E3-E4)

Portion 2

- Steel Roof Installation
- Installation of Escalators (E1-E4)

Portion 3

- Excavation of Pile Cap
- Construction of Pile Cap

Portion 4

- Concreting of E10 (7th Pour)
- Concreting of E10 (8th Pour)

9.3 KEY ISSUES FOR THE COMING MONTH

- 9.3.1 Key issues to be considered in the coming month include:
 - Implementation of dust suppression measures at all times;
 - Potential wastewater quality impact due to surface runoff;
 - Potential fugitive dust quality impact due from the dry/loose/exposure soil surface/dusty material;
 - Disposal of empty engine oil containers within site area;
 - Ensure dust suppression measures are implemented properly;
 - Sediment catch-pits and silt removal facilities should be regularly maintained;
 - Management of chemical wastes;
 - Discharge of site effluent to the nearby wetland, stockpiling or disposal of materials, and any dredging or construction area at this area are prohibited;
 - Follow-up of improvement on general waste management issues; and
 - Implementation of construction noise preventative control measures
- 9.3.2 During wet season, the Contractors should pay special attention on water quality mitigation measures and fully implement according to the ISEMM of the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained. The implementation of water quality mitigation measures conducted by the Contractor is shown in *Appendix N*.



10 CONCLUSIONS AND RECOMMENDATIONS

10.1 CONCLUSIONS

- 10.1.1 This is **79th** monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from 1 to **31 October 2023**.
- 10.1.2 The previous service contractor nos. NTE/07/2016 and EDO 8/2022, covering the EM&A service for the Development ARQ for Contracts 1, 2, 3, 4 and 5 was completed in September 2022 and September 2023 respectively. In view of the completion of major construction works, the EM&A service for Contract 1 and Contract 2 under service contract no. EDO 8/2022 was ceased in late September 2023 and the relevant monitoring stations have been handover to current contract no. EDO 8/2022.
- 10.1.3 No 24-hour or 1-hour TSP monitoring and noise monitoring results that triggered the Action or Limit Levels were recorded. No NOEs or the associated corrective actions were therefore issued.
- 10.1.4 In the Reporting Period, no exceedance was recorded and no Notification of Exceedance was issued. Moreover, no noise complaints (which triggered Action Level) were received for the Project.
- 10.1.5 In the Reporting Period, no environmental complaint was received.
- 10.1.6 No notification of summons or successful prosecution was received under the Project.
- 10.1.7 During the Reporting Period, weekly joint site inspection by the RE, ET with the relevant Main-contractor was carried out for Contracts 3, 4 and 5 in accordance with the EM&A Manual stipulation whereas IEC performed monthly site inspection for both contracts. No non-compliance observed during the site inspection.

10.2 RECOMMENDATIONS

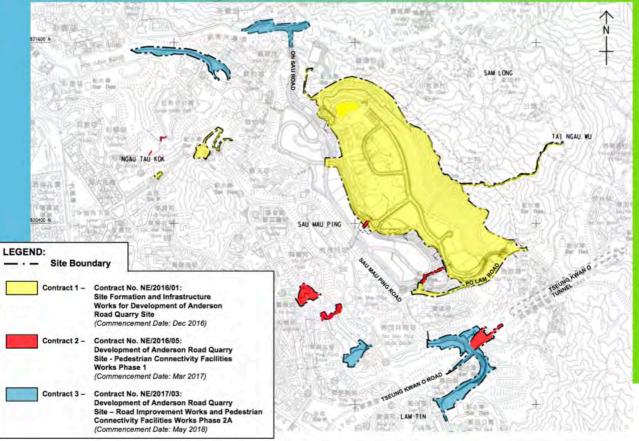
- 10.2.1 The Contractors are reminded to pay special attention on water quality mitigation measures and should fully implement the measures as recommended in the EM&A Manual, in particular to prevent muddy water or other water pollutants from site surface overflow to public area should be properly maintained.
- 10.2.2 Since construction site is highly visible to the resident at nearby estates, the Contractors should pay special attention on potential environmental impact generated by the site activities and adhere implement adequate air quality and noise mitigation measures as far as practicable to reduce the impact to the public.
- 10.2.3 Construction noise is one of the key environmental issues during construction work of the Project. Noise mitigation measures such as using quiet plants and noise barriers shall be implemented where practicable according to the EM&A manual.
- 10.2.4 In addition, the Contractors should ensure all effluent discharge shall be fulfilled the Technical Memorandum of Effluent Discharged into Drainage and Sewerage Systems, inland and Coastal Waters criteria or relevant discharge license requirement.
- 10.2.5 Mosquito control measures should be continued to prevent mosquito breeding on site.



Appendix A

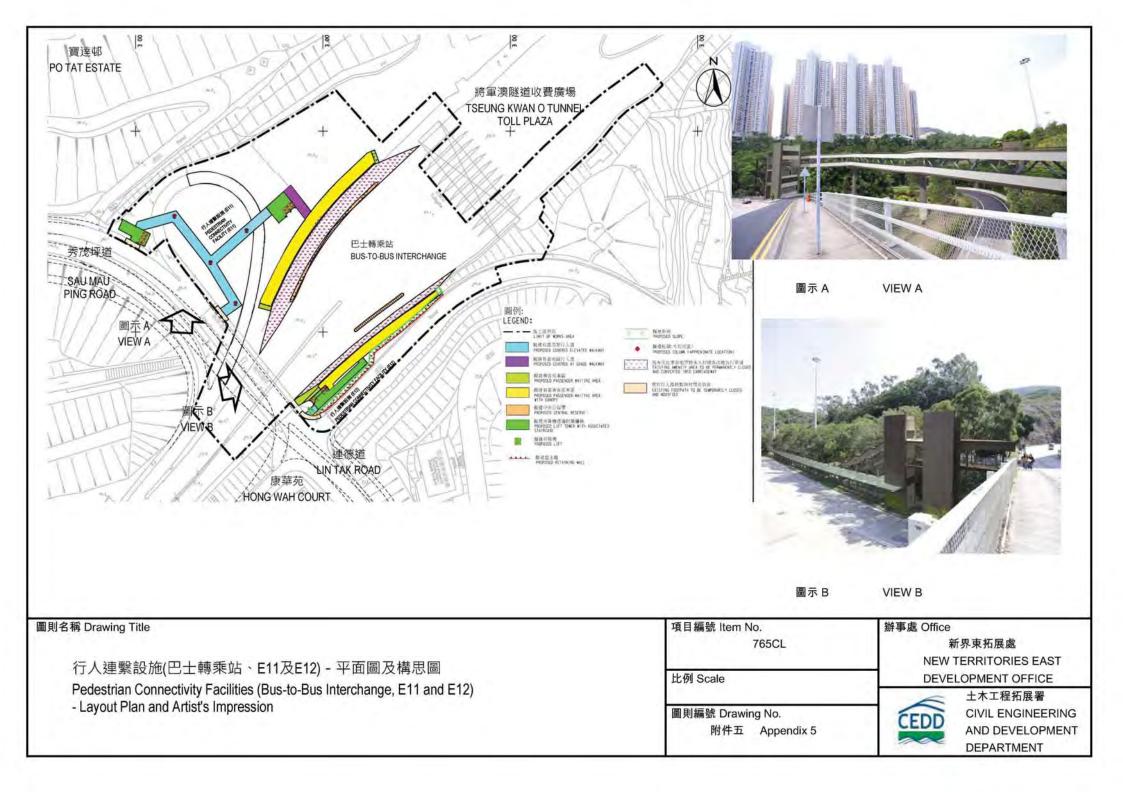
Layout plan of the Project

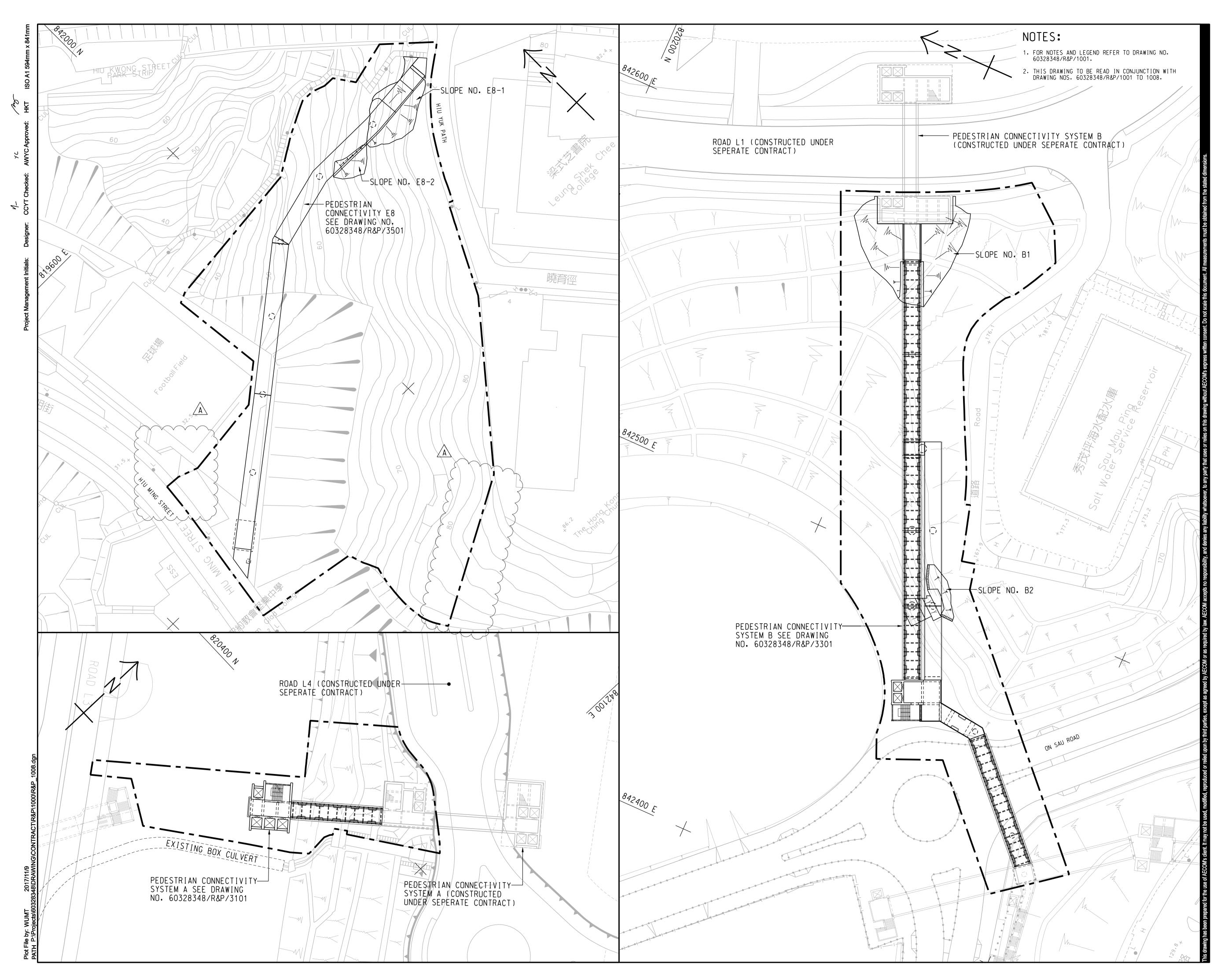
Contract Packages





Layout plan of Contract 3 (NE/2017/03) (Non-Designated Area)







PROJECT ^{項目}

DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - INVESTIGATION, DESIGN AND CONSTRUCTION

CONTRACT TITLE DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - ROAD IMPROVEMENT WORKS AND PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 2A CLIENT _{業主}



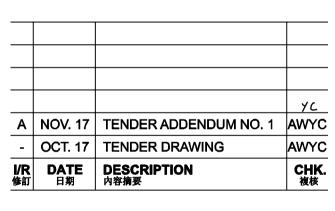
全林工程拓展署 Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



STATUS ^{階段}

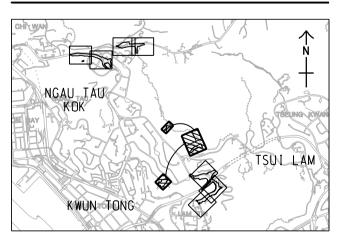
SCALE 比例

A1 1 : 500

DIMENSION UNIT _{尺寸單位}

METRES

KEY PLAN A1 1 : 60000 家引國



PROJECT NO. _{項目編}號

SHEET 8 OF 8

60328348

SHEET TITLE 圖紙名稱

SHEET NUMBER 圖紙編號

60328348/R&P/1008A

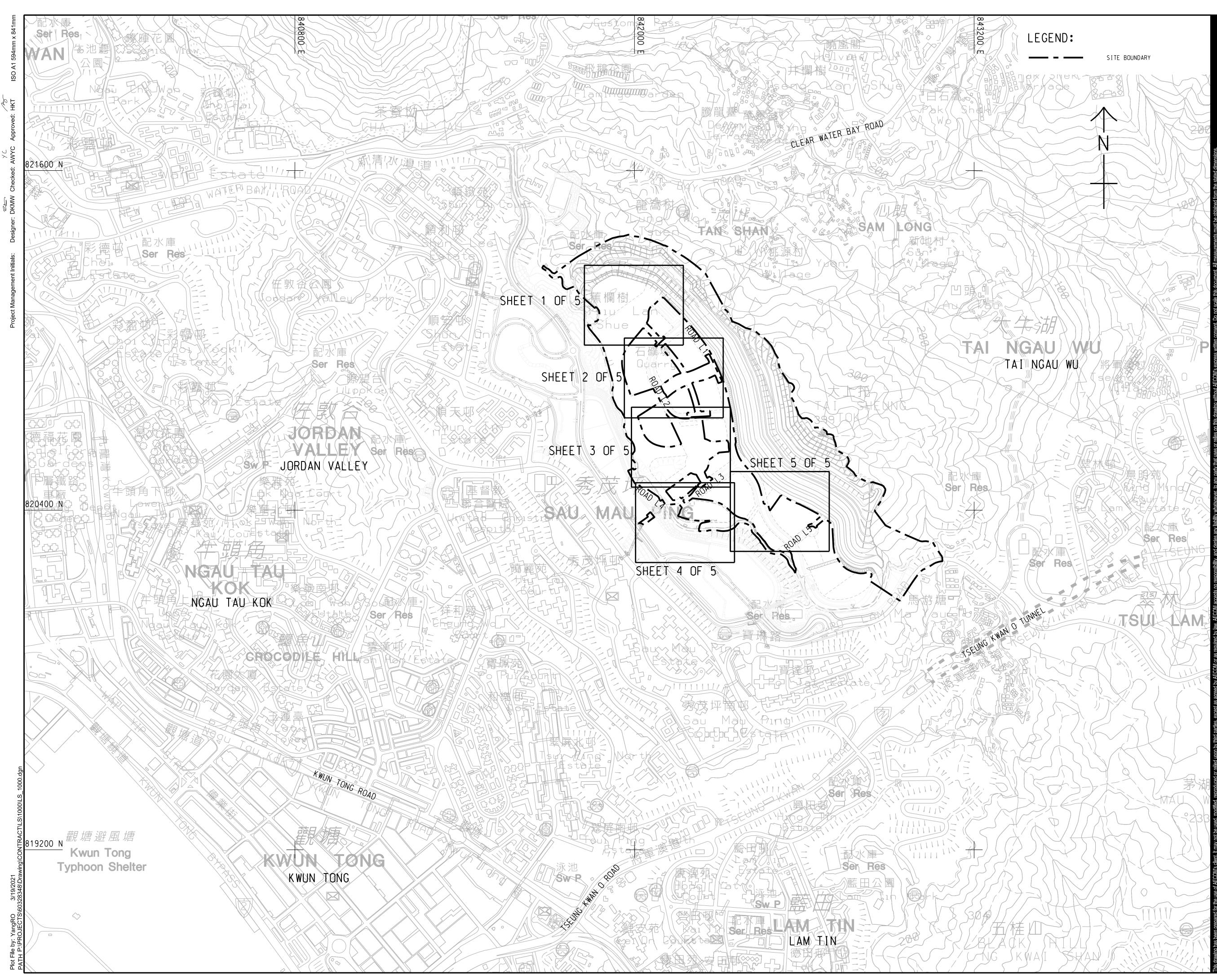
CONTRACT NO. ^{合約編}號

NE/2017/03

GENERAL LAYOUT



Layout plan of Contract 4 (ED/2020/02)



γC



PROJECT

DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - INVESTIGATION, DESIGN AND CONSTRUCTION

CONTRACT TITLE DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - INFRASTRUCTURE, GREENING AND LANDSCAPE WORKS

CLIENT



 CEDD

 土木工程拓展署

 CEDD

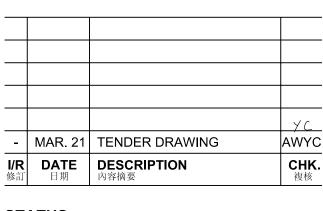
 Civil Engineering and Development Department

CONSULTANT

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION



| SCALE 比例 | DIMENSION UNIT 尺寸單位 |
|----------------------------|------------------------|
| A1 1 : 6000 | METRES |
| KEY PLAN _{委리國} | |

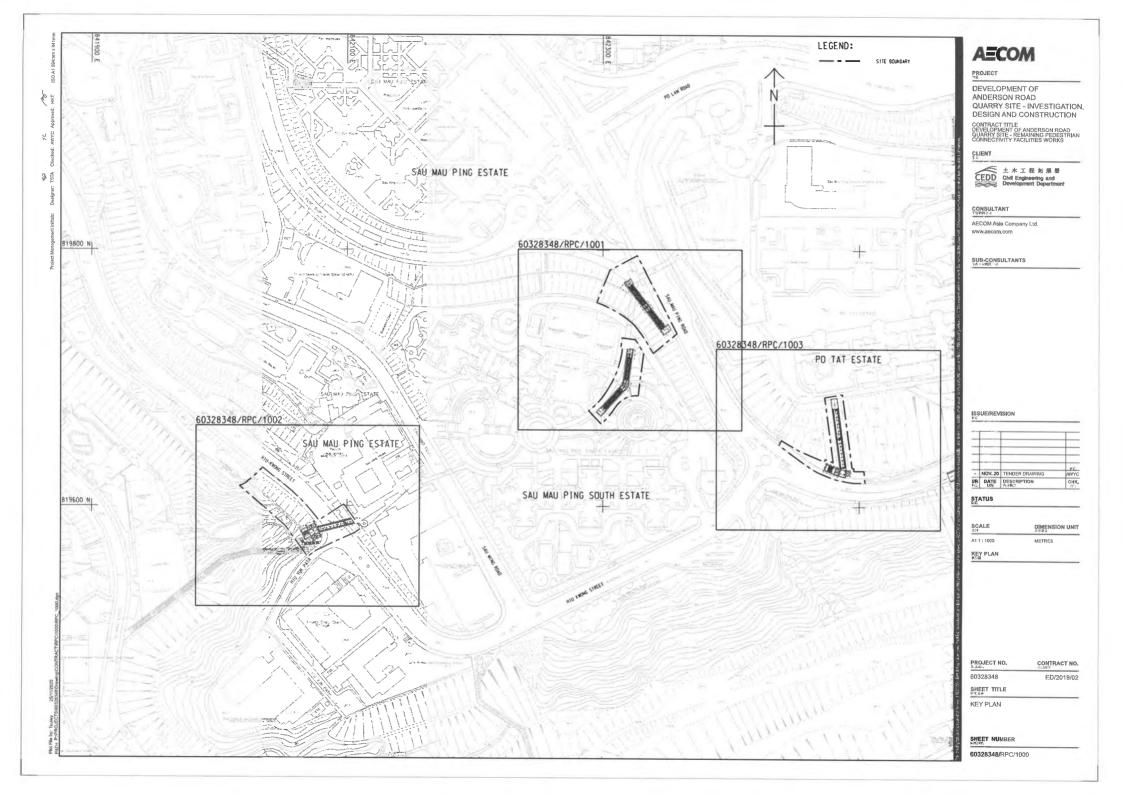
PROJECT NO. ^{項目編號} CONTRACT NO. _{合約編號} ED/2020/02 60328348 **SHEET TITLE** 圖紙名稱 KEY PLAN

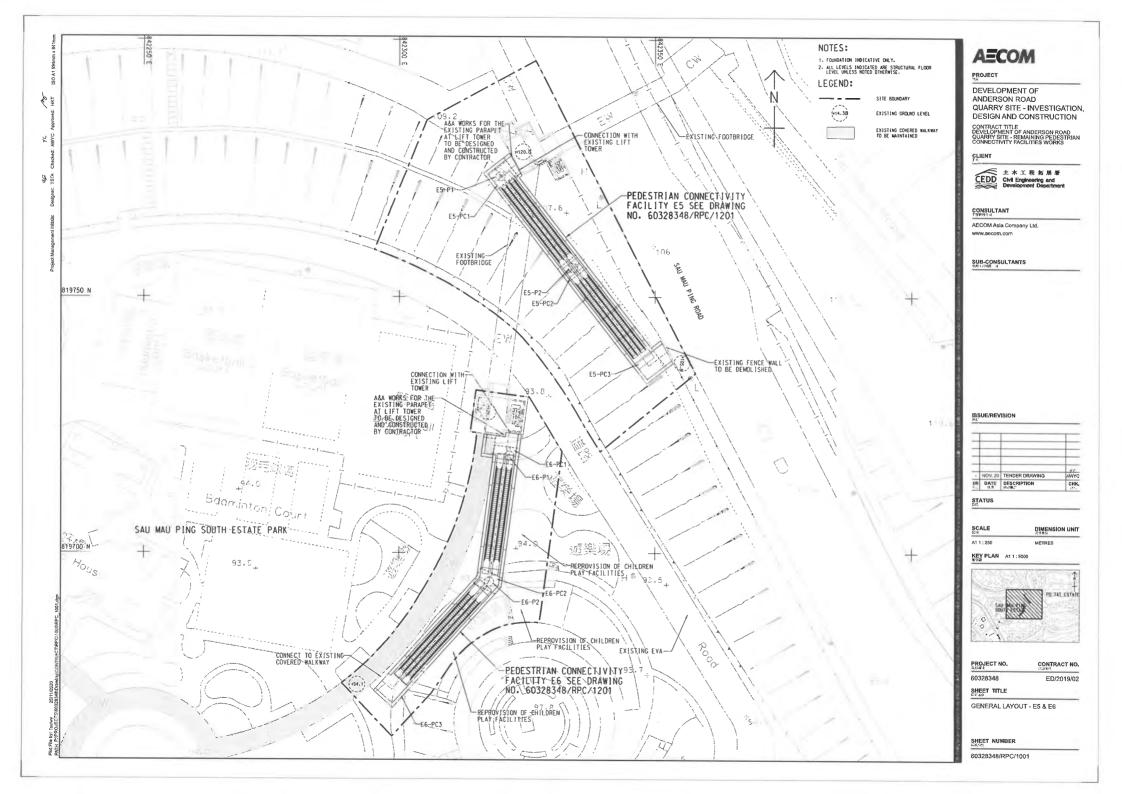
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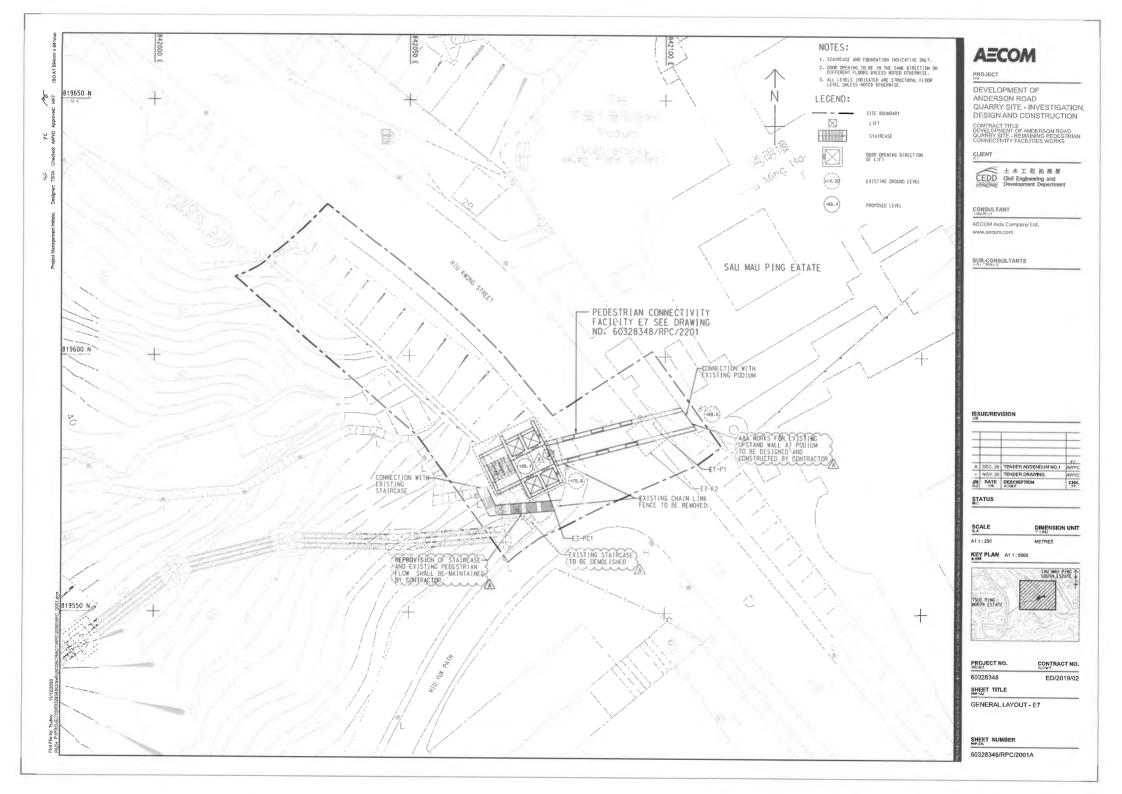
60328348/LS/1000

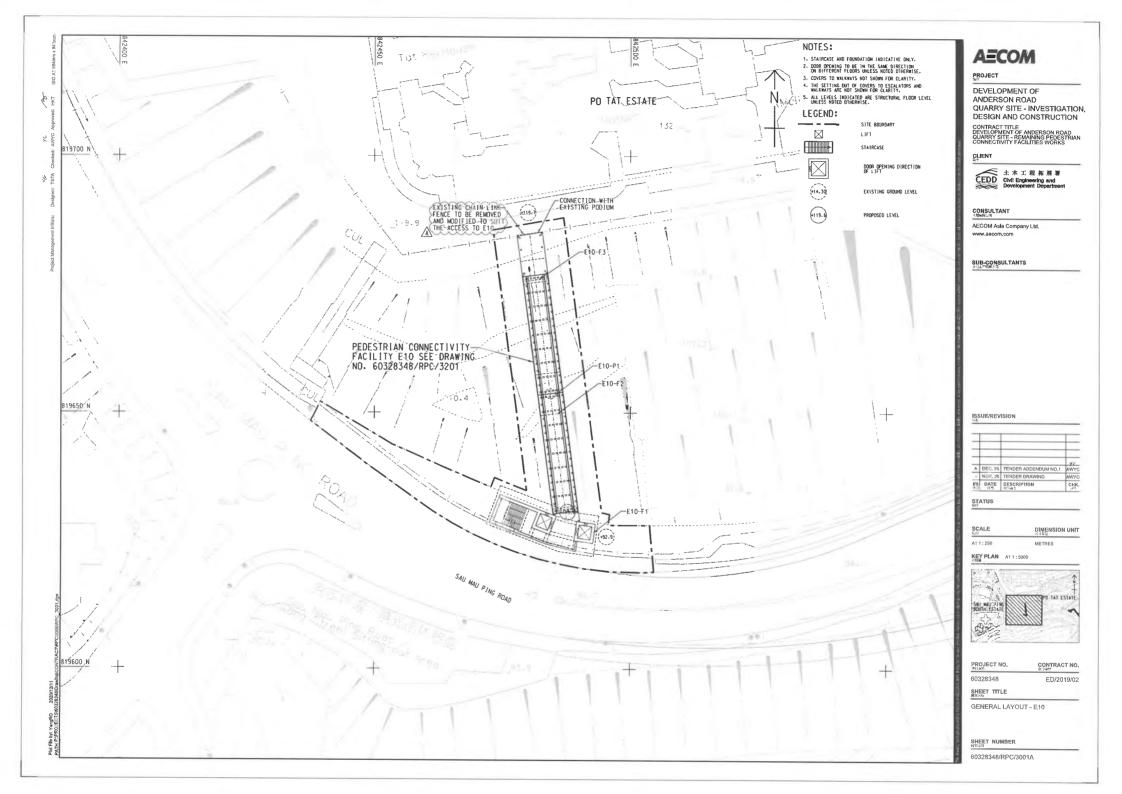


Layout plan of Contract 5 (ED/2019/02)









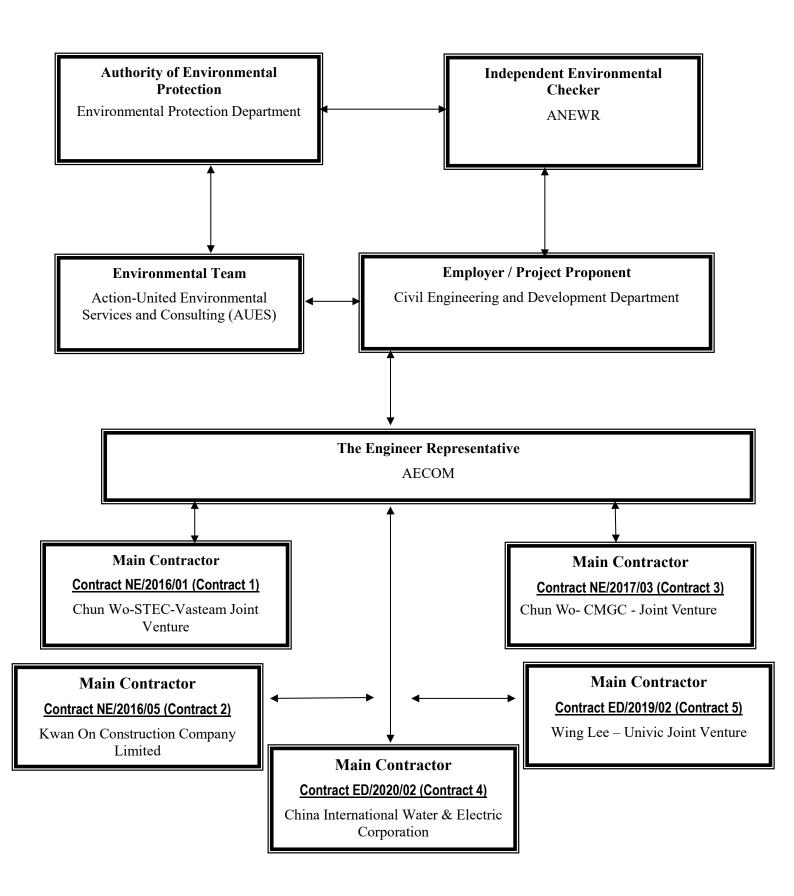


Appendix B

Project Organization Structure



Project Organization Structure





| Organization | Project Role | Name of Key Staff | Tel No. | Fax No. |
|----------------|--------------------------------------|--------------------|-----------|-----------|
| CEDD | Engineer | Mr Leung Chi Foon | 3842 7087 | 2739 0076 |
| AECOM | Chief Resident Engineer | Lee, Yu Ching Paul | 5723 6880 | 2473 3221 |
| AECOM | Senior Resident Engineer | Brad Chan | 5506 0068 | 2473 3221 |
| ANEWR | Independent Environmental Checker | James Choi | 2618 2836 | 3007 8648 |
| CW – CMGC - JV | Construction Manager | Lau Kwai Ming | 9845 4251 | 3965 9900 |
| CW – CMGC - JV | Site Agent | Leung, Tak Yu | 9026 3897 | 3965 9900 |
| CW – CMGC - JV | Environmental Officer | Ken Chu | 9774 0154 | 3965 9900 |
| CW – CMGC - JV | Environmental Supervisor | Zero Choi | 5300 3643 | 3965 9900 |
| AUES | Environmental Team Leader | T. W. Tam | 2959 6059 | 2959 6079 |
| AUES | Environmental Consultant | Nicola Hon | 2959 6059 | 2959 6079 |
| AUES | Environmental Consultant | Ben Tam | 2959 6059 | 2959 6079 |

Contact Details of Key Personnel for Contract 3 - NE/2017/03

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

CW – CMGC - JV (Main Contractor) – Chun Wo- CMGC - Joint Venture

ANEWR (IEC) –ANewR Consulting Limited

AUES (ET) – Action-United Environmental Services & Consulting



Ben Tam

2959 6059

AUES

2959 6079

Legend:

AUES

CEDD (Employer) – Civil Engineering and Development Department

Environmental Consultant

- AECOM (Engineer) AECOM Asia Co. Ltd.
- CIWEC (Main Contractor) China International Water & Electric Corporation
- ANEWR (IEC) ANewR Consulting Limited
- AUES (ET) Action-United Environmental Services & Consulting



| Organization | Project Role | Name of Key Staff | Tel No. | Fax No. |
|--------------|--------------------------------------|--------------------|-----------|-----------|
| CEDD | Engineer | Mr Leung Chi Foon | 3842 7087 | 2739 0076 |
| AECOM | Chief Resident Engineer | Lee, Yu Ching Paul | 9824 7016 | 2473 3221 |
| AECOM | Senior Resident Engineer | Bill Hon | 5599 1486 | 2473 3221 |
| ANEWR | Independent Environmental Checker | James Choi | 2618 2836 | 3007 8648 |
| WL-UJV | Construction Manager | РН Но | 9464 1392 | 2983 6640 |
| WL-UJV | Site Agent | Lee Chi Wai | 9255 7014 | 2983 6640 |
| WL-UJV | Environmental Officer | Guo Liming | 5723 9883 | 2983 6640 |
| AUES | Environmental Team Leader | T. W. Tam | 2959 6059 | 2959 6079 |
| AUES | Environmental Consultant | Nicola Hon | 2959 6059 | 2959 6079 |
| AUES | Environmental Consultant | Ben Tam | 2959 6059 | 2959 6079 |

Contact Details of Key Personnel for Contract 5 - ED/2019/02

Legend:

- CEDD (Employer) Civil Engineering and Development Department
- AECOM (Engineer) AECOM Asia Co. Ltd.
- WL-UJV (Main Contractor) Wing Lee Univic Joint Venture
- ANEWR (IEC) -ANewR Consulting Limited
- AUES (ET) Action-United Environmental Services & Consulting



Appendix C

Construction Programme (a) Contract 3 (NE/2017/03) (b) Contract 4 (ED/2020/02) (c) Contract 5 (ED/2019/02)



Contract 3 (NE/2017/03)

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2023\October 2023\R0673v1.docx

| vity ID | Activity Name | Duration | Start | Finish | Oct | 2023 Nov |
|------------------------|---|----------|----------------------------|-----------|-----|-------------|
| NE2017/03 - ARO PHASE | 2A - Monthly Programme Update (202309)-1 231021 | 1767 | 21-Jun-21 A | 20-Jun-26 | 70 | 71 |
| Road Improvement Wor | | 589 | 21-Jun-21 A | 02-Oct-24 | | |
| Construction Works | | 589 | 21-Jun-21 A | 02-Oct-24 | | |
| CON12110 | Drainage & utilities works (RWC2 type 4, 6, 7, 8) | 60 | 21-Jun-21 A | 08-Jul-24 | | |
| CON12110 CON12130 | Road works (RWC2 type 4, 6, 7, 8) | 60 | 21-Jul-21 A 26-Jul-21 A | 12-Aug-24 | _ | |
| CON12130 | Install stone facing for wall (RWC2 type 4, 6, 7, 8) | 72 | 02-Aug-21 A | 02-Oct-24 | - | |
| CON12134 CON10231E | (CE358) Watermain diversion due to unforeseen ground condition (by WSD 8 | 30 | 17-Aug-22 A | 03-Oct-23 | | |
| CON10231L | Further ELS to RWC2 type 5 due to unforeseen ground utilities | 54 | 31-Aug-22 A | 27-Sep-23 | -[| |
| CON10271 | Install sheet pile & ELS to RW pile cap (RWC2 type 3, stage 1), 1 team | 90 | 15-May-23 A | 27-Sep-23 | - | |
| CON10732 | Construct RW footing (RWC2 type 4 [bay 45 to bay 38]) | 42 | 01-Jun-23 A | 21-Nov-23 | _ | |
| CON10432 | PM Review & comment; JV reviese & re-submit; PM review & acceptance on (| 36 | 01-Jun-23 A | 28-Oct-23 | | |
| CON10751 | (CE267) Great depth varying encountered on RH level for socket H for on RW | 172 | 06-Jun-23 A | 30-Dec-23 | | |
| CON10751 | Cut slope works (RWC2 Bay 48 to Bay 47) | 30 | 12-Jun-23 A | 23-Nov-23 | _ | |
| CON10272 | Construct RW wall (RWC2 by 46 to bay 47) Construct RW wall (RWC2 type 4 [bay 45 to bay 38]) | 42 | 08-Jul-23 A | 15-Dec-23 | - | |
| CON10434 CON10240 | (CE396) Existing sewage drainage pipe diversion (lower stream) | 28 | 01-Aug-23 A | 16-Oct-23 | _ | |
| CON10240 | | 72 | 08-Sep-23A | 09-Dec-23 | - | |
| | Construct RW pile cap / footing (RWC2 type 3, stage 1), 1 team (NCE272) (NCE275) Inclement weather (21/8/2023 to 20/9/2023) at CT6 | | • | | | |
| CON115282B CON10274 | | 20 | 14-Sep-23A | 09-Oct-23 | | |
| CON10274 CON12330D | Cut slope works (RWC2 type 4 Bay 45 to Bay 38) | 60 | 18-Sep-23A | 06-Jan-24 | _ | |
| | (PMI512) Additional E&M civil provision works & additional drainage works (CP | 36 | 18-Sep-23A | 21-Nov-23 | | |
| CON12470A | (NCE272) (NCE275) Inclement weather (21/8/2023 to 20/9/2023) on KS27 w | 18 | 18-Sep-23A | 12-Oct-23 | | |
| CON12330E | (NCE272) (NCE275) Inclement weather (21/8/2023 to 20/9/2023) at KS27 ea | 17 | 18-Sep-23A | 12-Oct-23 | | |
| CON115743 | Construct NB RC footing (FE1-F6b to FE1-F7b, 30m, 1.0m/d, 1 team) | 30 | 21-Sep-23 | 28-Oct-23 | | |
| CON10651 | Construct RW wall (RWC2 type 1a [Bay 2]) | 60 | 28-Sep-23 | 09-Dec-23 | _ | |
| CON11530 | Construct piling foundation on CT6 Type 1 (18nos, 2d/no, 1 team) + 2d for 1st | 38 | 10-Oct-23 | 23-Nov-23 | | |
| CON12510 | Install steel frame, canopy, glass panels, louver & PMMA at lift tower (KS27 eas | 12 | 13-Oct-23 | 27-Oct-23 | | |
| CON12530 | ABWF works (KS27 east side) | 37 | 13-Oct-23 | 25-Nov-23 | _ | |
| CON12490 | At grade works (KS27 east side) | 60 | 13-Oct-23 | 22-Dec-23 | | |
| CON12550 | E&M works (KS27 east side) | 37 | 13-Oct-23 | 25-Nov-23 | | |
| CON12478 | Construct at grade works (KS27 west side) | 36 | 13-Oct-23 | 24-Nov-23 | | |
| CON12480 | Install steel frame, canopy, glass panels, louver & PMMA at lift tower (KS27 we | 20 | 13-Oct-23 | 06-Nov-23 | | |
| CON12482 | ABWF works (KS27 west side) | 72 | 13-Oct-23 | 09-Jan-24 | | |
| CON12484 | E&M works (KS27 west side) | 72 | 13-Oct-23 | 09-Jan-24 | _ | |
| CON124781 | Construct underground drainage (KS27 west side) | 36 | 13-Oct-23 | 24-Nov-23 | _ | |
| CON10240A | (NCE272) (NCE275) Inclement weather (21/8/2023 to 20/9/2023) on RIW1 R | 20 | 17-Oct-23 | 09-Nov-23 | _ | |
| CON11670 | Construct NB RC wall (FE1-PC1b, 32m 0.75m/d, 1 team) | 30 | 21-Oct-23 | 25-Nov-23 | _ | |
| CON12552 | Modify working platform for lift installation (KS27 east side) | 6 | 28-Oct-23 | 03-Nov-23 | | |
| CON12502 | Construct underground drainage (KS27 east side) | 48 | 28-Oct-23 | 22-Dec-23 | | |
| CON11328D | Subletting works - socketed H-pile at CT5 | 36 | 30-Oct-23 | 09-Dec-23 | | |
| CON115763 | Construct NB RC wall (FE1-F5b to FE1-F7b, 30m, 0.85m/d, 1 team) | 36 | 30-Oct-23 | 09-Dec-23 | | |
| CON12554 | Install lift (KS27 east side) | 36 | 04-Nov-23 | 15-Dec-23 | | |
| CON12556 | Install pillar box (KS27 east side) | 36 | 04-Nov-23 | 15-Dec-23 | _ | |
| CON12486 | Modify working platform for lift installation (KS27 west side) | 12 | 07-Nov-23 | 20-Nov-23 | _ | |
| CON12488 | Install lift (KS27 west side) | 42 | 21-Nov-23 | 11-Jan-24 | _ | |
| CON12489 | Install pillar box (KS27 west side) | 42 | 21-Nov-23 | 11-Jan-24 | _ | |
| CON10390 | Construct pile cap (RWC2 type 5 [bay 46]) | 48 | 24-Nov-23 | 22-Jan-24 | _ | |
| CON11532 | Construct piling foundation on CT6 Type 2 (21nos, 2d/no, 1 team) | 42 | 24-Nov-23 | 15-Jan-24 | _ | |
| CON10412 | Construct RW footing (RWC2 type 6 [bay 48 to bay 47]) | 24 | 24-Nov-23 | 21-Dec-23 | _ | |
| CON12570 | T&C to lift, submit LE5 and EMSD inspection (KS27 east side) | 20 | 05-Dec-23 | 29-Dec-23 | _ | |
| CON11330 | Construct CT5 piling foundation (15nos, 6d/no, 1 team + setup) | 90 | 11-Dec-23 | 03-Apr-24 | | |
| CON11692 | Remove ELS | 18 | 11-Dec-23 | 03-Jan-24 | _ | |
| CON10652 | Construct RW footing (RWC2 type 2) | 60 | 11-Dec-23 | 24-Feb-24 | | |
| CON10756 | Construct RW wall (RWC2 type 3, stage 1), 1 team | 72 | 11-Dec-23 | 09-Mar-24 | _ | |
| CON104341 | (CE754) Erect 1no. DN 150mm watermain & 1no. DN 200mm watermain (dov | 30 | 16-Dec-23 | 23-Jan-24 | | |
| CON10414 | Construct RW wall (RWC2 type 6 [bay 48 to bay 47]) | 24 | 22-Dec-23 | 22-Jan-24 | | |
| CON10770 | Install sheet pile & ELS to RW pile cap (RWC2 type 3, stage 2), 1 team | 90 | 02-Jan-24 | 23-Apr-24 | | |
| CON11710 | Backfilling, construct road drainage & road paving | 36 | 04-Jan-24 | 17-Feb-24 | | |
| CON10654 | Construct RW wall (RWC2 type 2) | 60 | 04-Jan-24 | 16-Mar-24 | | |
| CON10452A | ELS to retaining wall footing (RWC2 type 3a Bay 37 to Bay 31) | 72 | 08-Jan-24 | 08-Apr-24 | | |
| CON12590 | T&C and Statutory Inspection _KS27 | 30 | 12-Jan-24 | 19-Feb-24 | | |
| CON12492 | T&C to lift, submit LE5 and EMSD inspection (KS27 west side) | 1 | 12-Jan-24 | 12-Jan-24 | | |
| CON115321 | (NCE036) Additional duration for Great Depth Condition on Rockhead Level fc | 42 | 16-Jan-24 | 07-Mar-24 | | |

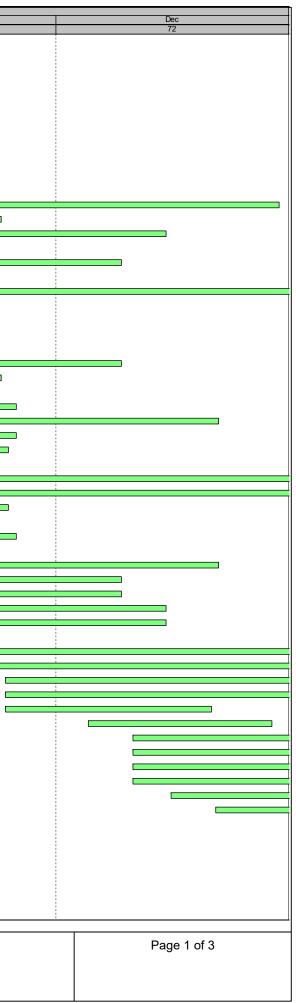
Actual Work

Remaining Work

♦ ♦ Milestone

NE/2017/03 Development of Anderson Road Quarry Site - Investigation Design & Construction Development of Anderson Road Quarry Site Road - Improvement Works & Pedestrian Connectivity Facilities Works Phase 2A

3-Month Rolling Programme



| | Activity Name | Duration | Start | Finish | |
|----------------------------------|--|----------|----------------------------|------------------------|-------|
| Road Improvement Works Lo | peation 2 (RIW2) | 548 | 30-Aug-22 A | 25-May-24 | 70 71 |
| · · · · · | | 298 | 02-Aug-23 A | 25-May-24 | |
| Construction Works in Slope | | | | | |
| CON21130 CON21114 | T&C and Statutory Inspection _Portion B & Slope C3 Construct drainage works & utilities at new U-turn bay | 30 42 | 02-Aug-23 A | 09-Oct-23 12-Oct-23 | |
| CON21114 | Construct drainage works & duilles at new 0-turn bay | 42 | 23-Aug-23 A 23-Aug-23 A | 12-Oct-23 | |
| CON20210 | Fabrication of NB steel post - central median near junction at on sau road left ti | 42 70 | 31-Aug-23 A | 08-Nov-23 | |
| CON21116 | Road works at new U-turn bay | 18 | 13-Oct-23 | 03-Nov-23 | |
| CON21118 | Traffic diversion from OSR to Sai Keung | 3 | 04-Nov-23 | 07-Nov-23 | |
| CON21150 | Construct hard landscape works at Portion B (Part 1) | 60 | 04-Nov-23 | 19-Jan-24 | |
| CON21150 CON21170 | Construct hard landscape works at Portion B (Part 1) | 60 | 08-Nov-23 | 19-Jan-24 | |
| CON21170 | Construct hard landscape works at Portion B (Part 2) | 60 | 08-Nov-23 | 19-Jan-24 | |
| CON20230 | Steel post near on sau road left turn to kowloon side delivery | 17 | 09-Nov-23 | 25-Nov-23 | |
| CON20290 | Fabrication of NB acoustic panels - along slope side | 70 | 09-Nov-23 | 17-Jan-24 | |
| CON20250 | Fabrication of NB steel post - central median along new clean water bay road t | 182 | 26-Nov-23 | 25-May-24 | - |
| CON20230 | Acoustic panels along slope side delivery | 28 | 18-Jan-24 | 14-Feb-24 | |
| Construction Noise Semi-Encl | , , , | 391 | 30-Aug-22 A | 21-Mar-24 | |
| CON21968 | (NCE208) Construct piling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 team + s | 200 | 30-Aug-22 A | 06-Oct-23 | |
| CON21690 | Excavate & install lateral support (SE2 Bay4 to Bay12; L=110m) | 125 | 25-Nov-22 A | 11-Oct-23 | |
| CON21970 | ELS works & UU hanging (Bay13 to Bay21) | 24 | 06-Feb-23 A | 06-Oct-23 | |
| CON21970 CON21780 | Construct NB RC L-shaped wall (CT4 Bay1 to Bay3; L=30m) | 42 | 08-Jun-23 A | 30-Nov-23 | |
| CON21780 CON21710 | Construct NB RC L-snaped wall (C14 Bay1 to Bay3; L=30m) Construct NB pile cap (SE2 Bay4 to Bay12; L=110m) | 42 60 | 28-Aug-23 A | 08-Jan-24 | |
| CON21710 CON21968C | (NCE211) (NCE264) Inclement weather 21/5/2023 to 20/6/2023 at SE2 (Bay1 | 16 | 28-Aug-23 A 19-Sep-23 A | 24-Oct-23 | |
| CON21966C | (NCE271) (NCE275) Inclement weather 21/8/2023 to 20/9/2023 at SE2 (Bay1 (NCE272) (NCE275) Inclement weather 21/8/2023 to 20/9/2023 at SE2 (Bay1 | 20 | 25-Oct-23 | 16-Nov-23 | |
| CON22010 | (NCE272) (NCE275) incernent weather 21/6/2023 to 20/9/2023 at SE2 (bay4 Install pipe pile wall (SE2 Bay13 to Bay21; 65nos 2nos/d + setup, 1 team) | 36 | 17-Nov-23 | 30-Dec-23 | |
| CON22030 | Excavate & install lateral support for UU (SE2 Bay13 to Bay21; L=85m, 1 team) | 42 | 02-Jan-24 | 22-Feb-24 | |
| CON21730 | Construct NB RC L-shaped wall (SE2 Bay4 to Bay12; L=110m) | 60 | 09-Jan-24 | 21-Mar-24 | |
| Road Improvement Works Lo | | 1431 | 19-Jul-21 A | 20-Jun-26 | |
| · · · | | | | | |
| Construction Works | | 1431 | 19-Jul-21 A | 20-Jun-26 | |
| CON31130 | Cut slope works (CH115 to CH200) (L=85m, 13007m3, 10m3/d) | 1300 | 19-Jul-21 A | 15-Oct-25 | |
| CON30170 | Slope works & fill no-fine concrete at slope D1 (Level 1/4, 400m3) | 72 | 19-Aug-21 A | 28-Oct-23 | |
| CON31212 | Rock slope mapping (Stage 2) | 180 | 03-Oct-22 A | 20-Oct-23 | |
| CON31170 | Soil nail works & further construct RWD3 (11NE-D/F246, stage 2) | 150 | 21-Oct-22 A | 10-Oct-23 | |
| CON31710 | Construct footing, pier & pier head F1-4 | 144 | 20-Dec-22 A | 01-Mar-24 | - |
| CON31214 | PM review & acceptance and slope stabilization measures (Stage 2) | 180 | 20-Jan-23 A | 01-Mar-24 | |
| CON30412D | Install UU support (Bay 14b to Bay 16) | 6 | 13-Feb-23 A | 30-Oct-23 | |
| CON30394 | Backfill RWD1 (bay7 to bay10) | 48 | 21-Apr-23 A | 27-Sep-23 | |
| CON32810 | Road works (RWD2 remaining) | 42 | 05-Jun-23 A | 06-Oct-23 | |
| CON31290 | Reinstatment works & fill no-fine concrete works | 90 | 09-Jun-23 A | 12-Dec-23 | |
| CON30430 | Construct pile cap (Bay 14b) | 12 | 30-Jun-23 A | 06-Nov-23 | |
| CON30430A | Plate load test (Bay 15 to Bay 16) | 12 | 15-Jul-23 A | 07-Nov-23 | |
| CON324386 | Install pipe pile wall (NB SE1 Bay6 to Bay1 & VB1) | 18 | 18-Aug-23 A | 07-Oct-23 | |
| CON30674 | Construct fresh watermain connection A & B | 60 | 26-Aug-23 A | 07-Nov-23 | |
| CON31550 | Construct soil nails (55nos 10m depth, 3.5d/no, 3 teams) (Slope D4) | 60 | 30-Aug-23 A | 10-Nov-23 | |
| CON30510A | (NCE272) (NCE275) Inclement weather (21/8/2023 to 20/9/2023) at RWD1 & | 20 | 20-Sep-23 A | 21-Oct-23 | |
| CON30688 | Lay twin DN600 gasmains Bay 7 to Bay 1 (by Towngas) | 72 | 28-Sep-23 | 23-Dec-23 | |
| CON31550A CON324386A | (NCE272) (NCE275) Inclement weather (21/8/2023 to 20/9/2023) on RIW3 SI (NCE272) (NCE276) Inclement weather (21/8/2023 to 20/9/2023) at SE1 Bay | 20 | 06-Oct-23 | 30-Oct-23 | |
| | (NCE272) (NCE276) Inclement weather (21/8/2023 to 20/9/2023) at SE1 Bay | 20 | 09-Oct-23 | 01-Nov-23 | |
| CON31190 | Erect working platform for soil nail works (Slope D3, stage 2) | 42 | 11-Oct-23 | 29-Nov-23 | |
| CON30530 | Drainage & utilities works (bay 1 to bay 7) | 30 | 24-Oct-23 | 27-Nov-23 | |
| CON30190 | Excavation, find-out rock-head & ELS works (Level 1/4) | 102 | 30-Oct-23 | 02-Mar-24 | |
| CON31570 | Utilities works & drainage works (Slope D4) | 60 | 31-Oct-23 02-Nov-23 | 11-Jan-24 22-Nov-23 | |
| CON324387 CON30430B | ELS works at (NB SE1 Bay6 to Bay1 & VB1) | 18 | 02-Nov-23 08-Nov-23 | 22-Nov-23 28-Nov-23 | |
| | Construct RC stem wall (Bay 14a to Bay 14b) | 18 | | | |
| CON30676 | Trial pit / inspection pit excavation for slat watermain D lower connection | 12 | 08-Nov-23 | 21-Nov-23 | |
| CON30678 | Construct slat watermain D lower connection | 36 | 22-Nov-23 | 05-Jan-24 | |
| CON32440 | Construct type 2 NB footing (SE1 bay6 to bay1 & VB1) | 12 | 23-Nov-23 | 06-Dec-23 | |
| CON30430C | Construct RC footing (Bay 15 to Bay 16) | 18 | 29-Nov-23 | 19-Dec-23 | |
| CON31210 | Soil nail works (11NE-D/C190, stage 2) | 135 | 30-Nov-23 | 18-May-24 | |
| 00104500 | Road works (Slope D4) Cut slope works (Slope D3) (CH430 to CH330) (L=100m, 7500m3, 10m3/d) | 60 | 05-Dec-23 | 19-Feb-24 | |
| | UUIII slope Works (Slope U3) (CH430 to CH330) (L=100m 7500m3 10m3/d) | 750 | 05-Dec-23 | 20-Jun-26 | |
| CON31590 CON31552 CON32444 | Construct SE1 bay6 to bay1 & VB1 (lower-pour) retaining wall | 12 | 07-Dec-23 | 20-Dec-23 | |



| ivity ID | Activity Name | Duration | Start | Finish | | 2023 |
|------------------------|---|----------|------------------------|------------------------|-----------|--------|
| | | | | | Oct 70 | Nov 71 |
| CON30450 | Construct RC stem wall (Bay 15 to Bay 16) | 18 | 20-Dec-23 | 12-Jan-24 | | |
| CON32448 | Construct SE1 & VB1 (upper-pour) retaining wall | 12 | 21-Dec-23 | 06-Jan-24 | | |
| CON32432 | Backfilling to watermain's level (NB SE1 Bay1 to Bay6) | 24 | 08-Jan-24 | 03-Feb-24 | | |
| CON30570 | Drainage & utilities works (Type 4 RW) | 42 | 13-Jan-24 | 05-Mar-24 | | |
| Pedestrian Connectivit | ty Facility System B (SYB) | 187 | 17-Jul-23 A | 18-Mar-24 | | |
| Construction Works | <u>, , , , , , , , , , , , , , , , , , , </u> | 187 | 17-Jul-23 A | 18-Mar-24 | | |
| CON51184 | Subletting works for ABWF works at System B | 48 | 17-Jul-23 A | 27-Sep-23 | | |
| CON52530 | Construct escalator pit P3 to P4 (E3 & E4) | 48 | 09-Aug-23 A | 05-Oct-23 | | |
| CON523301 | (NCE272) (NCE275) Inclement weather (21/8/2023 to 20/9/2023) on SYB-FB | 20 | 20-Sep-23 A | 13-Oct-23 | | |
| CON52172 | Construct superstructure SYB-LT1 (remaining works, support of escalator) | 36 | 21-Sep-23 | 04-Nov-23 | | |
| CON51186 | Submission works for ABWF works at System B | 30 | 28-Sep-23 | 04-Nov-23 | | |
| CON51170 | Install glass & window @SYB-LT1 | 42 | 06-Oct-23 | 24-Nov-23 | | |
| CON52530A | (NCE272) (NCE275) Inclement weather (21/8/2023 to 20/9/2023) on SYB-Es | 20 | 06-Oct-23 | 30-Oct-23 | | |
| CON52270 | Erect footbridge steel frame PC7 to PC6 (P7 to P6) | 12 | 14-Oct-23 | 28-Oct-23 | | |
| CON52270 | Construct deck slab, planter wall and roofing PC6 to PC4 (P6 to P5) | 30 | 14-Oct-23 | 18-Nov-23 | | |
| CON52470 CON52490 | Construct deck slab, planter wall and roofing PC6 to PC4 (P6 to P5) Construct deck slab, planter wall and roofing PC4 to PC3 (P5 to LT1) | 30 | 14-Oct-23 | 18-Nov-23 | | |
| CON52250 | Erect footbridge steel frame PC8 to PC7 (P8 to P7) | 12 | 30-Oct-23 | 11-Nov-23 | | |
| CON52230 | Construct deck slab, planter wall and roofing PC7 to PC6 (P7 to P6) | 30 | 30-Oct-23 | 02-Dec-23 | | |
| CON52550 | | 48 | 31-Oct-23 | 27-Dec-23 | | |
| | Construct escalator pit P4 to P7 (E5 & E6) | | 31-Oct-23 | 20-Nov-23 | | |
| CON52590 | Install steel roof (steel frame) P4 to P7 | 18 72 | 06-Nov-23 | 31-Jan-24 | | |
| CON53410 | Install steel works at LT1 / ST1 | | | | | |
| CON53430 CON52290 | Install hand railing at ST1 | 72 24 | 06-Nov-23 07-Nov-23 | 31-Jan-24 04-Dec-23 | | |
| | Erect footbridge steel frame PC2 to PC1 (P2 to P1) | | | 04-Dec-23 | | |
| CON52310 | Erect footbridge steel frame PC1 to existing footbridge (P1) | 24 | 07-Nov-23 | 25-Nov-23 | | |
| CON52230 | Erect footbridge steel frame SYB-A1 to PC8 (A1 to P8) | 12 | 13-Nov-23 | | | |
| CON52390 | Construct deck slab, planter wall and roofing PC8 to PC7 (P8 to P7) | 30 | 13-Nov-23 | 16-Dec-23 | | |
| CON52710 CON52730 | ABWF works @ steel frame footbridge P6 to P5 | 48 | 20-Nov-23 | 17-Jan-24 | | |
| | ABWF works @ steel frame footbridge P5 to LT1 | 48 | 20-Nov-23 | 17-Jan-24 | | |
| CON52790 | ABWF works @ escalator pit P7 to P4 | 48 | 21-Nov-23 | 18-Jan-24 | | |
| CON51190 | ABWF works @SYB-LT1 | 18 | 25-Nov-23 | 15-Dec-23 | | |
| CON52370 | Construct deck slab, planter wall and roofing SYB-A1 to PC8 (A1 to P8) | 30 | 27-Nov-23 | 03-Jan-24 | | |
| CON52690 | ABWF works @ steel frame footbridge P7 to P6 | 48 | 04-Dec-23 | 31-Jan-24 | | |
| CON52430 | Construct deck slab, planter wall and roofing PC2 to PC1 (P2 to P1) | 30 | 05-Dec-23 16-Dec-23 | 11-Jan-24 | | |
| CON51490 | E&M works @SYB-LT1 | 30 | | 23-Jan-24 | | |
| CON51192 | ABWF works @SYB-LT1 (other than lift shart area) | 60 | 16-Dec-23 | 01-Mar-24 | | |
| CON52670 | ABWF works @ steel frame footbridge P8 to P7 | 48 | 18-Dec-23 | 17-Feb-24 | | |
| CON53090 CON53110 | E&M works @ escalator pit P7 to P4 | 60 | 19-Dec-23 27-Dec-23 | 04-Mar-24 | | |
| | E&M works @ steel frame footbridge P6 to P5 | 48 | | 24-Feb-24 24-Feb-24 | | |
| CON53170 | E&M works @ steel frame footbridge P5 to LT1 | 48 | 27-Dec-23 | | | |
| CON52570 | Construct escalator pit LT1 to P3 (E1 & E2) | 48 | 28-Dec-23 | 26-Feb-24 | | |
| CON52610 | Install steel roof (steel frame) P3 to P4 | 18 | 28-Dec-23 | 18-Jan-24 | | |
| CON52174 | Construct R.C. desk P2 to LT1 | 55 | 28-Dec-23 | 05-Mar-24 | | |
| CON52650 | ABWF works @ steel frame footbridge A1 to P8 | 48 | 04-Jan-24 | 02-Mar-24 | | |
| CON53050 | E&M works @ steel frame footbridge P7 to P6 | 48 | 11-Jan-24 | 09-Mar-24 | | |
| CON52750 | ABWF works @ steel frame footbridge P2 to P1 | 48 | 12-Jan-24 | 11-Mar-24 | | |
| CON52450 | Construct deck slab, planter wall and roofing PC1 to ex. footbridge (P1) | 30 | 12-Jan-24 | 19-Feb-24 | | |
| CON52810 | ABWF works @ escalator pit P4 to P3 | 48 | 19-Jan-24 | 18-Mar-24 | | |

Actual Work

Remaining Work

NE/2017/03 Development of Anderson Road Quarry Site - Investigation Design & Construction Development of Anderson Road Quarry Site Road - Improvement Works & Pedestrian Connectivity Facilities Works Phase 2A

♦ ♦ Milestone

3-Month Rolling Programme

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Contract 4 (ED/2020/02)

| D | Task Name | Duration | Start | Finish | Predecessors | | | - | me: Septen | | | | | Dece | mber 20 | 23 | | | | 12 | nuary |
|----------|--|-----------|----------------------------|------------------------------|---------------|-----|--------|-----|------------|-------|------|---|------|---------|---------|------|-------|-------|---|-----|-------|
| | | Duration | Start | 1 111311 | 1 Tedecessors | 29/ | /10 5/ | /11 | 12/11 | 19/11 | 26/1 | 1 | 3/12 | 10/12 | | 7/12 | 24/12 | 31/12 | 2 | 7/1 | 1 |
| | Contract Period | | Fri 30/7/21 | Wed 12/11/25 | | | | | | | | | | | | | | | | | |
| | Contract Starting Date [Contract Award Date 21 Jul 2021] | | Fri 30/7/21 | Fri 30/7/21 | | | | | | | | | | | | | | | | | |
| | Contract Duration | | Fri 30/7/21 | Sat 28/12/24 | 2SS | | | | | | | | | | | | | | | | |
| | Original Completion Date | , | Sat 28/12/24 | Sat 28/12/24 | 3 | | | | | | | | | | | | | | | | |
| 5 | Potential EOT due to CEs and Inclement weather | , | Sun 29/12/24 | Wed 12/11/25 | 4 | | | | | | | | | | | | | | | | |
|) 7 | Anticipated Completion of the Whole of the Works Section of Works and Relevant Portions of Work | | Wed 12/11/25 | Wed 12/11/25 | 25FF,5 | | | | | | | | | | | | | | | | |
| 7 | Section of Works and Relevant Portions of Work Section of Works 1 - Portions 1a, 2a & 2b | - | Fri 30/7/21 Mon 30/8/21 | Wed 12/11/25 Tue 12/11/24 | | - | | | | | | | | | | | | | | | |
| B 9 | Original Completion Date | | | Wed 13/12/23 | 2FS+867 days | | | | | | | | | + | 13/12 | | | | | | |
| 9 0 | Portion 1a | | Fri 29/4/22 | Tue 12/11/24 | 21 3+007 days | | | | | | | | | - | 10/12 | | | | | | |
| 1 | Access date | | Fri 29/4/22 | Fri 29/4/22 | 2FS+273 days | - | | | | | | | | | | | | | | | |
| 2 | Construction Duration | | Fri 29/4/22 | Wed 13/12/23 | 11SS | _ | | | | | | | | 1 | 3/12 | | | | | | |
| 3 | Potential EOT due to Inclement weather and CEs | | Thu 14/12/23 | Tue 12/11/24 | 12 | | | | | | | | | 4/12 | | | | | | | |
| 4 | Anticipated Completion Date | | Tue 12/11/24 | Tue 12/11/24 | 404FF,13 | | | | | | | | | | | | | | | | |
| 5 | Portion 2a | - | Mon 30/8/21 | Tue 12/11/24 | | | | | | | | | | | | | | | | | |
| 6 | Access date | | Mon 30/8/21 | Mon 30/8/21 | 2FS+31 days | | | | | | | | | | | | | | | | |
| 7 | Construction Duration | 836 days | Mon 30/8/21 | Wed 13/12/23 | 16SS | | | | | | | | | 1 | 3/12 | | | | | | |
| 8 | Potential EOT due to Inclement weather and CEs | 335 days | Thu 14/12/23 | Tue 12/11/24 | 17 | | | | | | | | 1 | 14/12 📩 | | | | | | | |
| 9 | Anticipated Completion Date | 0 days | Tue 12/11/24 | Tue 12/11/24 | 439FF | | | | | | | | | | | | | | | | |
| 20 | Portion 2b | 1022 days | Tue 14/12/21 | Mon 30/9/24 | | - | | | | | | | | | | | | | | | _ |
| 21 | Access date | 0 days | Tue 14/12/21 | Tue 14/12/21 | 2FS+137 days | | | | | | | | | | | | | | | | |
| 2 | Construction Duration | 730 days | Tue 14/12/21 | Wed 13/12/23 | 21SS | | | | | | | | | 1 | 3/12 | | | | | | |
| 23 | Potential EOT due to Inclement weather and CEs | 292 days | Thu 14/12/23 | Mon 30/9/24 | 22 | | | | | | | | 1 | 14/12 🎽 | | | | | | | |
| 24 | Anticipated Completion Date | 0 days | Mon 30/9/24 | Mon 30/9/24 | 509FF,23 | | | | | | | | | | | | | | | | |
| 25 | Section of Works 1A - Establishment Works for all Landscape Softworks in Section 1 of the Works | - | Wed 13/11/24 | | | | | | | | | | | | | | | | | | |
| 26 | Original Completion Date | | Thu 12/12/24 | Thu 12/12/24 | 9FS+365 days | | | | | | | | | | | | | | | | |
| 7 | Commencement of Establishment Work | | Wed 13/11/24 | Wed 13/11/24 | 28SS | | | | | | | | | | | | | | | | |
| 8 | Establishment Work Duration | | Wed 13/11/24 | | 14,19,24 | | | | | | | | | | | | | | | | |
| 9 | Anticipated Completion Date Section of Works 2 - Portion 8 | | Wed 12/11/25 | | 28FF | | | | | | | | | | | | | | | | |
| 60 51 | Original Completion Date | | Fri 30/7/21 Sat 29/7/23 | Mon 15/7/24 Sat 29/7/23 | | - | | | | | | | | | | | | | | | |
| 2 | Access date | | Fri 30/7/21 | Fri 30/7/21 | 2 | - | | | | | | | | | | | | | | | |
| 3 | Construction Duration | | Fri 30/7/21 | Sat 29/7/23 | 32 | | | | | | | | | | | | | | | | |
| 3 4 | Potential EOT due to Inclement weather and CEs up to Jan 2023 | | Sun 30/7/23 | Mon 15/7/24 | 33 | | | | | | | | | | | | | | | | |
| 35 | Anticipated Completion Date | | | Mon 15/7/24 | 546FF | - | | | | | | | | | | | | | | | |
| 36 | Section of Works 2A - Establishment Works for all Landscape Softworks in Section 2 of the Works | - | Fri 30/7/21 | Tue 15/7/25 | | | | | | | | | | | | | | | | | |
| 37 | Original Completion Date | 0 days | Fri 30/7/21 | Fri 30/7/21 | | | | | | | | | | | | | | | | | |
| 8 | Commencement of Establishment Work | 0 days | Tue 16/7/24 | Tue 16/7/24 | 39SS | | | | | | | | | | | | | | | | |
| 9 | Establishment Work Duration | 365 days | Tue 16/7/24 | Tue 15/7/25 | 35 | | | | | | | | | | | | | | | | |
| 0 | Anticipated Completion Date | 0 days | Tue 15/7/25 | Tue 15/7/25 | 39FF | | | | | | | | | | | | | | | | |
| 1 | Section of Works 3 - Portions 1b, 3, 4, 5 | 763 days | Fri 30/7/21 | Thu 31/8/23 | | | | | | | | | | | | | | | | | |
| 2 | Original Completion Date | 0 days | Tue 30/5/23 | Tue 30/5/23 | 2FS+669 days | | | | | | | | | | | | | | | | |
| 3 | Portion 1b | | Tue 29/11/22 | | | | | | | | | | | | | | | | | | |
| 4 | Access date | - | Tue 29/11/22 | | 2FS+487 days | | | | | | | | | | | | | | | | |
| 5 | Construction Duration | | Tue 29/11/22 | | 44 | | | | | | | | | | | | | | | | |
| 6 | Potential EOT due to Inclement weather and CEs | - | Wed 31/5/23 | Thu 31/8/23 | 45 | | | | | | | | | | | | | | | | |
| 7 | Anticipated Completion Date | - | Thu 31/8/23 | Thu 31/8/23 | 677FF,46 | | | | | | | | | | | | | | | | |
| 8 | Portion 3 | | Wed 29/9/21 | Thu 31/8/23 | 050.01.1 | | | | | | | | | | | | | | | | |
| 9 | Access date | - | Wed 29/9/21 | Wed 29/9/21 | 2FS+61 days | | | | | | | | | | | | | | | | |
| 0 | Construction Duration | - | Wed 29/9/21 | Tue 30/5/23 | 49 | - | | | | | | | | | | | | | | | |
| 1 | Potential EOT due to Inclement weather and CEs | | Wed 31/5/23 | Thu 31/8/23 | 50 | - | | | | | | | | | | | | | | | |
| 2 | Anticipated Completion Date | 0 days | Thu 31/8/23 | Thu 31/8/23 | 689FF,51 | | | | | | | | | | | | | | | | |

| | | | Updated or | n 4 Sept 2023 |
|-------|-----------|--------------------|------------|---------------|
| 31/12 | Ja 7/1 | nuary 2024 14/1 | 21/1 | 28/1 |
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| | nternational Water & Electric Corp. | | | Development of A | ndersor | | | e - Infras | tructur | e, Gree | | nd Lan | Idsca | ape Wor | ks | | | | | | | | | |
|----------|--|--|----------------------------|------------------|---------|------|------|------------|---------|---------|---|--------|-------|---------|----|-------|----------|------|----|------|----|------|---|-------|
| D. | Task Name | Duration Start | Finish | Predecessors | | | | Novemb | | | 1 | | 1 | | 1 | | nber 202 | | | | | | | Janua |
| 53 | Portion 4 | 763 days Fri 30/7/21 | Thu 31/8/23 | | 29/* | 10 8 | 5/11 | 12/1 | 1 | 19/11 | | 26/11 | | 3/12 | | 10/12 | 1 | 7/12 | 24 | 1/12 | 3 | 1/12 | 7 | 7/1 |
| 54 | Access date | 0 days Fri 30/7/21 | Fri 30/7/21 | 2 | | | | | | | | | | | | | | | | | | | | |
| 55 | Construction Duration | 670 days Fri 30/7/21 | Tue 30/5/23 | 54 | | | | | | | | | | | | | | | | | | | | |
| 56 | Potential EOT due to Inclement weather and CEs | 93 days Wed 31/5/23 | Thu 31/8/23 | 55 | | | | | | | | | | | | | | | | | | | | |
| 57 | Anticipated Completion Date | 0 days Thu 31/8/23 | Thu 31/8/23 | 700FF,56 | | | | | | | | | | | | | | | | | | | | |
| 58 | Portion 5 | 551 days Sun 27/2/22 | Thu 31/8/23 | | | | | | | | | | | | | | | | | | | | | |
| 59 | Access date | 0 days Sun 27/2/22 | Sun 27/2/22 | 2 | | | | | | | | | | | | | | | | | | | | |
| 60 | Construction Duration | 458 days Sun 27/2/22 | Tue 30/5/23 | 59 | | | | | | | | | | | | | | | | | | | | |
| 51 | Potential EOT due to Inclement weather and CEs | 93 days Wed 31/5/23 | Thu 31/8/23 | 60 | | | | | | | | | | | | | | | | | | | | |
| 62 | Anticipated Completion Date | 0 days Thu 31/8/23 | Thu 31/8/23 | 704FF,61 | | | | | | | | | | | | | | | | | | | | |
| 53 | Section of Works 3A - Establishment Works for all Landscape Softworks in Section 3 of the Works | 365 days Fri 1/9/23 | Fri 30/8/24 | | | | | | | | | | | | | | | | | | + | | | |
| 64 | Original Completion Date | 0 days Tue 28/5/24 | Tue 28/5/24 | 42FS+365 days | | | | | | | | | | | | | | | | | | | | |
| 65 | Commencement of Establishment Work | 0 days Fri 1/9/23 | Fri 1/9/23 | 66SS | | | | | | | | | | | | | | | | | | | | |
| 6 | Establishment Work Duration | 365 days Fri 1/9/23 | Fri 30/8/24 | 52,47,57,62 | | | | | | | | | | | | | | | | | | | | |
| 67 | Anticipated Completion Date | 0 days Fri 30/8/24 | Fri 30/8/24 | 66FF | | | | | | | | | | | | | | | | | | | | |
| 8 | Section of Works 4 - Portions 6, 12 | 1129 days Fri 30/7/21 | Sat 31/8/24 | | | | | | | | | | | | | | | | | | +- | | | |
| 69 | Original Completion Date | 0 days Tue 13/6/23 | Tue 13/6/23 | 2FS+683 days | | | | | | | | | | | | | | | | | | | | |
| 70 | Portion 6 | 946 days Sat 29/1/22 | Sat 31/8/24 | | | | | | | | | | | | | | | | | | + | | | |
| 71 | Access date | 0 days Sat 29/1/22 | Sat 29/1/22 | 2FS+183 days | | | | | | | | | | | | | | | | | | | | |
| 72 | Construction Duration | 501 days Sat 29/1/22 | Tue 13/6/23 | 71 | | | | | | | | | | | | | | | | | | | | |
| 73 | Potential EOT due to Inclement weather and CEs | 445 days Wed 14/6/23 | Sat 31/8/24 | 72 | | | | | | | | | | | | | | | | | | | | |
| 74 | Anticipated Completion Date | 0 days Sat 31/8/24 | Sat 31/8/24 | 713FF,73 | | | | | | | | | | | | | | | | | | | | |
| 75 | Portion 12 | 1129 days Fri 30/7/21 | Sat 31/8/24 | | | | | | | | | | | | | | | | | | - | | | |
| 76 | Access date | 0 days Fri 30/7/21 | Fri 30/7/21 | 2 | | | | | | | | | | | | | | | | | | | | |
| 7 | Construction Duration | 684 days Fri 30/7/21 | Tue 13/6/23 | 76 | | | | | | | | | | | | | | | | | | | | |
| 78 70 | Potential EOT due to Inclement weather and CEs | 445 days Wed 14/6/23 | Sat 31/8/24 | 77 759FF,78 | | | | | | | | | | | | | | | | | | | | |
| 79 30 | Anticipated Completion Date Section of Works 4A - Establishment Works for all Landscape Softworks | 0 days Sat 31/8/24 445 days Wed 12/6/24 | Sat 31/8/24 Sun 31/8/25 | /09FF,/0 | | | | | | | | | | | | | | | | | | | | |
| 50 | in Section 4 of the Works | 445 days wed 12/0/24 | Juli 3 1/0/2J | | | | | | | | | | | | | | | | | | | | | |
| 31 | Original Completion Date | 0 days Wed 12/6/24 | Wed 12/6/24 | 69FS+365 days | | | | | | | | | | | | | | | | | | | | |
| 32 | Commencement of Establishment Work | 0 days Sun 1/9/24 | Sun 1/9/24 | 83SS | | | | | | | | | | | | | | | | | | | | |
| 33 | Establishment Work Duration | 365 days Sun 1/9/24 | Sun 31/8/25 | 74,79 | | | | | | | | | | | | | | | | | | | | |
| 34 | Anticipated Completion Date | 0 days Sun 31/8/25 | Sun 31/8/25 | 83FF | | | | | | | | | | | | | | | | | | | | |
| 35 | Section of Works 5A - Portions 9, 10 | 1098 days Fri 30/7/21 | Wed 31/7/24 | | | | | | | | | | | | | | | | | | + | | | |
| 36 | Original Completion Date | 0 days Wed 28/6/23 | | 2FS+698 days | | | | | | | | | | | | | | | | | | | | |
| 7 | Porion 9 | 1037 days Wed 29/9/21 | | | | | | | | | | | | | | | | | | | - | | | |
| 38 | Access date | 0 days Wed 29/9/21 | | 2FS+61 days | | | | | | | | | | | | | | | | | | | | |
| 9 | Construction Duration | 638 days Wed 29/9/21 | | 88 | | | | | | | | | | | | | | | | | | | | |
| 0 | Potential EOT due to Inclement weather and CEs Anticipated Completion Date | 399 days Thu 29/6/23 0 days Wed 31/7/24 | Wed 31/7/24 Wed 31/7/24 | 89 806FF,90 | | | | | | | | | | | | | | | | | | | | |
|)1)2 | Portion 10 | 1098 days Fri 30/7/21 | Wed 31/7/24 Wed 31/7/24 | 000FF,90 | | | | | | | | | | | | | | | | | | | | |
| 3 | Access date for Portion | 0 days Fri 30/7/21 | Fri 30/7/21 | 2 | | | | | | | | | | | | | | | | | | | | |
| 94 | Construction Duration for Portion | 699 days Fri 30/7/21 | Wed 28/6/23 | 93 | | | | | | | | | | | | | | | | | | | | |
| 95 | Potential EOT due to Inclement weather and CEs | 399 days Thu 29/6/23 | Wed 31/7/24 | 94 | | | | | | | | | | | | | | | | | | | | |
| 96 | Anticipated Completion Date | 0 days Wed 31/7/24 | Wed 31/7/24 | 837FF,95 | | | | | | | | | | | | | | | | | | | | |
| 97 | Section of Works 5AI - Establishment Works for all Landscape Softworks in Section 5A of the Works | 400 days Wed 26/6/24 | Thu 31/7/25 | | | | | | | | | | | | | | | | | | | | | |
| 98 | Original Completion Date | 0 days Wed 26/6/24 | Wed 26/6/24 | 86FS+365 days | | | | | | | | | | | | | | | | | | | | |
| 99 | Commencement of Establishment Work | 0 days Thu 1/8/24 | Thu 1/8/24 | 100SS | | | | | | | | | | | | | | | | | | | | |
| 00 | Establishment Work Duration | 365 days Thu 1/8/24 | Thu 31/7/25 | 91,96 | | | | | | | | | | | | | | | | | | | | |
| 01 | Anticipated Completion Date | 0 days Thu 31/7/25 | Thu 31/7/25 | 100FF | | | | | | | | | | | | | | | | | | | | |
| 02 | Section of Works 5B - Portion 11 | 886 days Sun 27/2/22 | | 2EQ: 607 days | | | | | | | | | | | | | | | | | | | | |
| 03 04 | Original Completion Date | 0 days Tue 27/6/23 | Tue 27/6/23 | 2FS+697 days | | | | | | | | | | | | | | | | | | | | |
| J4 | Access date | 0 days Sun 27/2/22 | Sun 27/2/22 | 2FS+211 days | | | | | | | | | | | | | | | | | | | | |

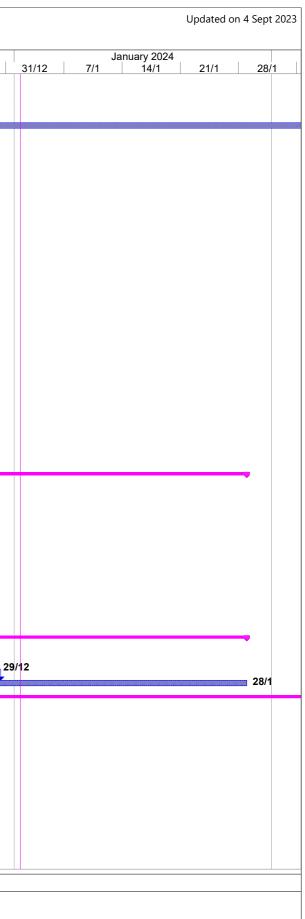
| | | | | | Updated | on 4 Sept 2023 |
|------------------|-------|-------|-----------|--------------------|---------|----------------|
| er 2023 17/12 | 24/12 | 31/12 | Ja 7/1 | nuary 2024 14/1 | 21/1 | 28/1 |
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| nina Int | ternational Water & Electric Corp. | | | D | evelopment of An | derso | on Ro R | CEDI toad Qu Revised | arry Si | ite - Infra | astructu | | ning and | d Lai | ndscape | Works | 5 | | | | | | | | | | opuar | ted on 4 | i Sept |
|------------|--|------------|---------------------------|----------------------------|------------------|-------|------------|----------------------------|---------|-------------|----------------|-------------|----------|------------------|---------|-------|---|----------------|------------------|-------|----------|-----|-------|---|-----|------------------|-------|----------|--------|
| ID Ta | ask Name | Duration S | Start | Finish | Predecessors | 29 | 9/10 | 6 | 5/11 | Novem | ber 202 /11 | 23 19/11 | 2 | 26/11 | 1 | 3/12 | | ecemb) 0/12 | er 2023 17/12 | 2 2 | 24/12 | | 31/1 | 2 | 7/1 | ary 2024 14/1 | 21/ | 1 | 28/ |
| 105 | Construction Duration | 487 days S | un 27/2/22 | Wed 28/6/23 | 104SS | | | | | | | | | | | | | | | | | | | | | | | | |
| 106 | Potential EOT due to Inclement weather and CEs | 399 days T | hu 29/6/23 | Wed 31/7/24 | 105 | | | | | | | | | | | | | | | | | | | | | | | | |
| 107 | Anticipated Completion Date | 0 days V | Ved 31/7/24 | Wed 31/7/24 | 928FF,106 | | | | | | | | | | | | | | | | | | | | | | | | |
| 108 | Section of Works 6 - Portion 7 | 455 days T | ue 29/11/22 | Mon 26/2/24 | | | | | | | | | | - | | | | | | | | | | | | | | | |
| 09 | Original Completion Date | 0 days T | ue 28/11/23 | Tue 28/11/23 | 2FS+851 days | | | | | | | | | <mark>∳ 2</mark> | 8/11 | | | | | | | | | | | | | | |
| 10 | Access date | 0 days T | ue 29/11/22 | Tue 29/11/22 | 2FS+487 days | | | | | | | | | | | | | | | | | | | | | | | | |
| 111 | Construction Duration | | | Tue 28/11/23 | 110 | | | | | | | | | 28 | 3/11 | | | | | | | | | | | | | | |
| 112 | Deferred possession (CE 067) | , | | Mon 26/2/24 | 111 | | | | | | | | 29/11 | _ | | | | | | | | | | | | | | | |
| 113 | Anticipated Completion Date | · · · | | Mon 26/2/24 | 934FF,112 | | | | | | | | | | | | | | | | | | | | | | | | |
| 114 | Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works | | | Tue 25/2/25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 115 | Original Completion Date | 0 days V | Ved 27/11/24 | Wed 27/11/24 | 109FS+365 days | | | | | | | | | | | | | | | | | | | | | | | | |
| 116 | Commencement of Establishment Work | - | ue 27/2/24 | Tue 27/2/24 | 117SS | | | | | | | | | | | | | | | | | | | | | | | | |
| 117 | Establishment Work Duration | | ue 27/2/24 | Tue 25/2/25 | 113 | | | | | | | | | | | | | | | | | | | | | | | | |
| 118 | Anticipated Completion Date | | ue 25/2/25 | Tue 25/2/25 | 117FF | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | Section of Works 7A - Portions 13a, 14 (DELETED) | 669 days F | | Mon 29/5/23 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | Access date for Portion 13a | - | at 29/1/22 | Sat 29/1/22 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 120 | Construction Duration for Portion 13a | | at 29/1/22 | Mon 29/5/23 | 120 | | | | | | | | | | | | | | | | | | | | | | | | |
| 121 | Completion of Works in Portion 13a | | lon 29/5/23 | Mon 29/5/23 | 121,964 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Access date for Portion 14 | | ri 30/7/21 | Fri 30/7/21 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 123 | | | | Mon 29/5/23 | 123 | | | | | | | | | | | | | | | | | | | | | | | | |
| 124 125 | Construction Duration for Portion 14 Completion of Works in Portion 14 | 669 days F | ri 30/7/21 Ion 29/5/23 | Mon 29/5/23 Mon 29/5/23 | 123 124,976,975 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 26 | Section of Works 7AI - Establishment Works for all Landscape Softworks | | lon 29/5/23 | Tue 28/5/24 | 124,970,975 | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | in Section 7A of the Works (DELETED) Commencement of Establishment Work for Section 7A | 0 days M | lon 29/5/23 | Mon 29/5/23 | 125 | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Establishment Work Duration for Section 7A | · · · | ue 30/5/23 | Tue 28/5/24 | 123 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Completion of Works in Section 7A | · · · | ue 28/5/24 | Tue 28/5/24 | 128,981 | | | | | | | | | | | | | | | | | | | | | | | | |
| 129 | | | | | 120,901 | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | Section of Works 7B - Portions 13b, 15 | 948 days S | | Mon 30/9/24 | 050,000 dava | | | | | | | | | | | | | | | | + | 20/ | 10 | | | | | | - |
| 31 | Original Completion Date | | ri 29/12/23 | Fri 29/12/23 | 2FS+882 days | | | | | | | | | | | | | | | | ~ | 29/ | 2 | | | | | | |
| 132 | Portion 13b | 948 days S | | Mon 30/9/24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | Access date | | at 26/2/22 | Sat 26/2/22 | 2FS+211 days | | | | | | | | | | | | | | | | | | | | | | | | |
| 134 | Construction Duration | · · · | un 27/2/22 | Fri 29/12/23 | | | | | | | | | | | | | | | | | | | /12 | | | | | | |
| 135 | Potential EOT due to Inclement weather and CEs up to Jan 2023 | · · · | at 30/12/23 | Mon 30/9/24 | 134 | | | | | | | | | | | | | | | | 30/12 | | | | | | | | |
| 36 | Anticipated Completion Date | | Ion 30/9/24 | Mon 30/9/24 | 983FF | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | Portion 15 | - | un 27/2/22 | Mon 30/9/24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138 | Access date | 0 days S | un 27/2/22 | Sun 27/2/22 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 139 | Construction Duration | 671 days S | un 27/2/22 | Fri 29/12/23 | 138 | | | | | | | | | | | | | | | | | | /12 | | | | | | |
| 40 | Potential EOT due to Inclement weather and CEs | 276 days S | at 30/12/23 | Mon 30/9/24 | 139 | | | | | | | | | | | | | | | | 30/12 | | | | | | | | |
| 141 | Anticipated Completion Date | 0 days N | Ion 30/9/24 | Mon 30/9/24 | 983FF | | | | | | | | | | | | | | | | | | | | | | | | |
| 142 | Section of Works 7BI - Establishment Works for all Landscape Softworks in Section 7B of the Works | 365 days T | ue 1/10/24 | Tue 30/9/25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | Original Completion Date | 0 days F | ri 27/12/24 | Fri 27/12/24 | 131FS+365 days | | | | | | | | | | | | | | | | | | | | | | | | |
| 144 | Commencement of Establishment Work | - | ue 1/10/24 | Tue 1/10/24 | 145SS | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | Establishment Work Duration | 365 days T | ue 1/10/24 | Tue 30/9/25 | 136,141 | | | | | | | | | | | | | | | | | | | | | | | | |
| 146 | Anticipated Completion Date | 0 days T | ue 30/9/25 | Tue 30/9/25 | 145FF | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | Section of Works 8 - Portion 16 | | | Sun 31/12/23 | | | | | | | | | | | | | | | | | | | , | | | | | | |
| 48 | Original Completion Date | - | /ed 28/6/23 | Wed 28/6/23 | 2FS+698 days | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | Access date | | hu 16/6/22 | Thu 16/6/22 | 2FS+321 days | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | Construction Duration | | hu 16/6/22 | Wed 28/6/23 | 149 | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | Potential EOT due to Inclement weather and CEs | - | hu 29/6/23 | Sun 31/12/23 | 150 | | | | | | | | | | | | | | | | | | 31/12 | 2 | | | | | |
| 152 | Anticipated Completion Date | · · · | | Sun 31/12/23 | 151,1091FF | | | | | | | | | | | | | | | | | | 31/1 | | | | | | |
| 153 | Section of Works 8A - Establishment Works for all Landscape Softworks in Section 8 of the Works | | lon 1/1/24 | Mon 30/12/24 | | | | | | | | | | | | | | | | | | | | _ | | | | | |
| 154 | Original Completion Date | 0 days T | hu 27/6/24 | Thu 27/6/24 | 148FS+365 days | | | | | | | | | | | | | | | | | | | | | | | | |
| 155 | Commencement of Establishment Work | - | Ion 1/1/24 | Mon 1/1/24 | 156SS | | | | | | | | | | | | | | | | | | 1/1 | | | | | | |
| | | ,• | | | | | | | | | | | | | 1 | | | | | | | | 11 | | | | | | |
| | Task Critical Task | Miles | stone 🔷 | Su | mmary 🗸 | - | Progre | ess 💼 | | | | | | | | | | | | | | | | | | | | | |
| | nal subject to confirmation by PM | | | | | | | | | Page 3 /2 | | | | | | | | | | | | | | | | | | | |

| Normal Normal< | | Duration Start | Finish | evelopment of An | | | rogramm | e: September | | | | Decembe | * 0000 | | | | | | |
|--|--|-----------------------|--------------|------------------|-----|-------|---------|--------------|-------|-------|------|---------|--------|-------|-------------|-------|------|------|----|
| B | D Task Name | Duration Start | FINISN | Predecessors | 29/ | 10 5/ | | | 19/11 | 26/11 | 3/12 | 1 | | 24/12 | | 31/12 | | 21/1 | 28 |
| Justice instanti- forder V Buy contraction Buy contraction | 56 Establishment Work Duration | 365 days Mon 1/1/24 | Mon 30/12/24 | 152 | | | | ,, | | | | | | | La da M | | | , . | |
| Display Operating Section Ope | 57 Anticipated Completion Date | 0 days Mon 30/12/24 | Mon 30/12/24 | 156FF | | | | | | | | | | | | | | | |
| Monale Sankarban Sankarban Sankarban Sankarban Sankarban | 58 Section of Works 9 - Portion 17 | 931 days Sun 27/2/22 | Sat 14/9/24 | | - | | | | | | | | | | | | | | |
| Image: 10 metal starter start | 59 Original Completion Date | 0 days Fri 29/12/23 | Fri 29/12/23 | 2FS+882 days | | | | | | | | | | • | * 29 | /12 | | | |
| Number of the incluster and and of the second sec | | 0 days Sun 27/2/22 | Sun 27/2/22 | - | | | | | | | | | | | | | | | |
| Instrume of expansion | | | | | | | | | | | | | | | | 12 | | | |
| Note:::::::::::::::::::::::::::::::::::: | | - | | | | | | | | | | | | 30/12 | | | | | |
| Proceedings | | | | 1107FF,162 | | | | | | | | | | | | | | | |
| 68/2 69/4 <th< td=""><td></td><td>365 days Sat 14/9/24</td><td>Sun 14/9/25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<> | | 365 days Sat 14/9/24 | Sun 14/9/25 | | | | | | | | | | | | | | | | |
| 107 Exclusion/Contant and Association (Section (Sectic | | 0 days Sat 28/12/24 | Sat 28/12/24 | 159FS+365 days | | | | | | | | | | | | | | | |
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| Interact Hants Is All Ten Networks Wei All Ten Services Wei All Serv | 167 Establishment Work Duration | 365 days Sun 15/9/24 | Sun 14/9/25 | 163 | | | | | | | | | | | | | | | |
| 100 00/put 0/uption 0/usion 0/ | 168 Anticipated Completion Date | 0 days Sat 14/9/24 | Sat 14/9/24 | 163FF | | | | | | | | | | | | | | | |
| 101 Controphysical and Hospital Social and Hospital Hospital Hos | 169 Section of Works 10 - All Tree Protection and Preservation Works | 1202 days Fri 30/7/21 | Tue 12/11/24 | | | | | | | | | | | | | | | | |
| 1/2 A Hap Improvise out Proceeders and Proceeders a | 170 Original Completion Date | 0 days Fri 29/12/23 | Fri 29/12/23 | 131FF | | | | | | | | | | 4 | 29/1 | 2 | | | |
| Nume Num Num <td></td> <td></td> <td>Fri 30/7/21</td> <td></td> | | | Fri 30/7/21 | | | | | | | | | | | | | | | | |
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| 189 Contractor's Management Teem 14 days Fri 30/721 Thu 12/821 2 90 Bill team | | , | | | | | | | | | | | | | | | | | |
| BM team Int 1 days Fi 3 07/21 Thu 1 2821 2 09 Competent mether of the steuper visory staff to oversee and supervisor 21 days Fi 3 07/22 Thu 198/21 2 192 Content of Contact Webage (Monthy update afterwards) 21 days Fi 3 07/22 Thu 198/21 2 192 Content of Contact Webage (Monthy update afterwards) 21 days Fi 3 07/21 Thu 198/21 2 194 Details of Geotechnical montoring team 21 days Fi 3 07/21 Thu 198/21 2 194 Details of Geotechnical montoring team 21 days Fi 3 07/21 Thu 198/21 2 194 Details of Geotechnical montoring team 21 days Fi 3 07/21 Sta 8/21 2 194 Details of Geotechnical montoring team 30 days Fi 307/21 Sta 8/21 2 197 Spacially required staff 30 days Sta 8/21 2 2 198 Public reduitor fifter (Sto) Meeting (monthy afterwards) 30 days Sta 8/21 2 199 Sta Safety Commitee (Sto) Meeting (monthy afterwards) 30 | | · · · · | | | | | | | | | | | | | | | | | |
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| 01Professional Indemnity Insurance in respect of Contractor's Design60 daysFri 30/7/21Mon 27/9/21202Proposed gasket material for waterworks60 daysFri 30/7/21Mon 27/9/212037 days advance notice of the date on which workers begin to wear Site uniform; Provide uniforms within 5 days after the design is accepted by PM60 daysFri 30/7/21Mon 27/9/21042 Engineering Graduates & 3 Technician apprentices90 daysFri 30/7/21Wed 27/10/212 | | | | | | | | | | | | | | | | | | | |
| 02Proposed gasket material for waterworks60 daysFri 30/7/21Mon 27/9/212037 days advance notice of the date on which workers begin to wear Site uniform; Provide uniforms within 5 days after the design is accepted by PM60 daysFri 30/7/21Mon 27/9/212042 Engineering Graduates & 3 Technician apprentices90 daysFri 30/7/21Wed 27/10/212 | | | | | | | | | | | | | | | | | | | |
| 1037 days advance notice of the date on which workers begin to wear Site uniform; Provide uniforms within 5 days after the design is accepted by PM60 daysFri 30/7/21Mon 27/9/2121042 Engineering Graduates & 3 Technician apprentices90 daysFri 30/7/21Wed 27/10/212 | | | | | | | | | | | | | | | | | | | |
| uniform; Provide uniforms within 5 days after the design is accepted by PM Image: Comparison of the design is accepted by PM 204 2 Engineering Graduates & 3 Technician apprentices 90 days Fri 30/7/21 Wed 27/10/21 2 | | | | | | | | | | | | | | | | | | | |
| | uniform; Provide uniforms within 5 days after the design is accepted by PM | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | 30 uays rfi 30///21 | weu 21/10/21 | ۷. | | | | | | | | | | | | | | | |

| | | | | E | evelopment of An | | | September 20 | | ind Lands | саре могк | S | | | | | | | | | | ept 2 |
|-------|--|----------|--------------|--------------|------------------|-------|------|-----------------------|----|-----------|-----------|------|-------------------|---------------|-------|-------|---|----------|-------------------|---|------|-------|
| ID Ta | sk Name | Duration | Start | Finish | Predecessors | 29/10 | 5/1 | ber 2023 /11 19/ | 11 | 26/11 | 3/12 | | ecember 2 0/12 | 2023 17/12 | 24/12 | 31/12 | - | J 7/1 | anuary 20 14/1 | | 21/1 | 28/1 |
| 206 | Agree on the content and presentation of the dashboard of DWSS | 90 days | Fri 30/7/21 | Wed 27/10/21 | 2 | | | | | | | | | | | | | | | 1 | | |
| 207 | Monthly collaboration and information exchange of BIM | 90 days | Fri 30/7/21 | Wed 27/10/21 | 2 | | | | | | | | | | | | | | | | | |
| 208 | Combined Services Drawing (CSD) and CBWD generated from BIM model | 90 days | Fri 30/7/21 | Wed 27/10/21 | 2 | | | | | | | | | | | | | | | | | |
| 209 | Video script for Project Video Film | 180 days | Fri 30/7/21 | Tue 25/1/22 | 2 | | | | | | | | | | | | | | | | | |
| 210 | Employment of Construction Industry Council's Graduates (min. 4 graduates) | 180 days | Fri 30/7/21 | Tue 25/1/22 | 2 | | | | | | | | | | | | | | | | | |
| 211 | Nomination of Treatment process specialist, Design Engineer, and Independent Checking Engineer (ICE) | 34 days | Fri 1/7/22 | Wed 3/8/22 | | | | | | | | | | | | | | | | | | |
| 212 | Plan & Proposals | 60 days | Fri 30/7/21 | Mon 27/9/21 | | | | | | | | | | | | | | | | | | |
| 213 | Preparation and submission of Noise Mitigation Plan (3 hard copies, 2 electronic copies) | 30 days | Fri 30/7/21 | Sat 28/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 214 | Preparation and submission of Waste Management Plan (WMP) | 30 days | Fri 30/7/21 | Sat 28/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 215 | Preparation and submission of Draft Construction Health and Safety Plan (3 | 7 days | Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 216 | copies) Preparation and submission of Quality Policy statement and quality plan | 7 dava | Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 216 | | | | Mon 2/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 217 | Preparation and submission of Draft Environmental Management Plan (EMP) 3 copies | | Fri 30/7/21 | | | | | | | | | | | | | | | | | | | |
| 218 | Tender requirements for suppliers of Plant and Materials, Equipment and Insurance Proposal | 14 days | Fri 30/7/21 | Thu 12/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 219 | Preparation of Proposal for arrangement for placement of storage compartments/ drinking water facilities/ toilet/ hand-wash facilities/ showering/ rubbishbin/ working shelter on Site | 14 days | Fri 30/7/21 | Thu 12/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 220 | Preparation Proposal for security system | 14 davs | Fri 30/7/21 | Thu 12/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 221 | Preparation and submission of DWSS proposal | | Fri 30/7/21 | Thu 19/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 222 | Preparation and submission of Subcontractor Management Plan (SMP) | | Fri 30/7/21 | Thu 19/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 223 | Preparation and submission of Construction Health and Safety Plan (6 copies) | , | Fri 30/7/21 | Sat 28/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 224 | Weather protection scheme | | Fri 30/7/21 | Sat 28/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 25 | Proposal of COBie information requirements | | Fri 30/7/21 | Sat 28/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 226 | Preparation and submission of Final Environmental Management Plan | | Fri 30/7/21 | Sat 28/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 227 | (EMP) 3 copies Preparation of Proposed Plans for submission of each Release of | | Fri 30/7/21 | Sat 28/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 228 | construction and Project Video Films Preparation and submission of Site Traffic Safety Management Plan | 60 days | Fri 30/7/21 | Mon 27/9/21 | 2 | | | | | | | | | | | | | | | | | |
| 220 | (STSMP), (monthly update) | 60 dava | E-: 20/7/24 | Mon 27/9/21 | 2 | | | | | | | | | | | | | | | | | |
| 229 | Preparation and submission of Site Management Plan for TTS | | Fri 30/7/21 | | 2 | | | | | | | | | | | | | | | | | |
| 230 | Preparation and submission of BIM Execution Plan accordance with the PSA 1.140 | | Fri 30/7/21 | Mon 27/9/21 | | | | | | | | | | | | | | | | | | |
| 231 | Public Relation (PR) Company, PR plan | , | Fri 30/7/21 | Mon 27/9/21 | 2 | | | | | | | | | | | | | | | | | |
| 232 | Preparation and submission of Temporary drainage management plan | | Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | | | | | | | | |
| | Procurements of Major Materials | - | Thu 16/3/23 | Fri 8/3/24 | | | | | | | | | | | | | | | | | | |
| 234 | Procurement & material submission of bearing for elevated walkway | - | Thu 16/3/23 | | | | | | | | | | | | | | | | | | | |
| 235 | Design, manufacturing and FAT of bearing for elevated walkway | | Sun 30/4/23 | Tue 22/8/23 | 234 | | | | | | | | | | | | | | | | | |
| 236 | Deliveries and site inspection of bearing for elevated walkway etc. | | Wed 23/8/23 | | 235 | | | | | | | | | | | | | | | | | |
| 237 | Procurement & material submission of movement joinst for elevated walkway | - | Thu 16/3/23 | Sat 29/4/23 | | | | | | | | | | | | | | | | | | |
| 238 | Design, manufacturing and FAT of movement joinst for elevated walkway | - | Sun 30/4/23 | Tue 22/8/23 | 237 | | | | | | | | | | | | | | | | | |
| 239 | Deliveries and site inspection of movement joinst for elevated walkway etc. | | Wed 23/8/23 | | 238 | | | | | | | | | | | | | | | | | |
| 240 | Procurement of Raise Planter Type A&B | | Mon 11/9/23 | | 040 | | | | | | | 9/12 | 2 | | | | | | | | | |
| 241 | Manufacturing, FAT & delivery of Raise Planter Type A&B | | | Fri 8/3/24 | 240 | | | | | | 10/1 | | | | | | | | | | | _ |
| 242 | Procurement of Balustrade Wall BW1-2 | - | Mon 11/9/23 | | | | | | | | | 9/12 | 2 | | | | | | | | | |
| 243 | Manufacturing, FAT & delivery of Balustrade Wall BW1-2 | | | Fri 8/3/24 | 242 | | | | | | 10/1 | 2 | | | | | | | | | | |
| 244 | Procurement of Children Play Areas & water play area Park Facilities | - | Mon 11/9/23 | | | | | | | | | 9/12 | 2 | | | | | | | | | |
| 245 | Design, Manufacturing, FAT & delivery of Children Play Areas & water play area Park Facilities | - | | Fri 8/3/24 | 244 | | | | | | 10/1 | | | | | | | | | | | |
| 246 | Procurement of Adult fitness Area Park Facilities | | Mon 11/9/23 | Sat 9/12/23 | 040 | | | | | | | 9/12 | i | | | | | | | | | |
| 247 | Design Manufacturing, FAT & delivery of Adult fitness Area Park Facilities | - | Sun 10/12/23 | | 246 | | | | | | 10/1 | | | | | | | | | | | - |
| 248 | Procurement of Elderly fitness Area Park Facilities | - | Mon 11/9/23 | | 040 | | | | | | | 9/12 | | | | | | | | | | |
| 249 | Design, Manufacturing, FAT & delivery of Elderly fitness Area Park Facilities | - | Sun 10/12/23 | | 248 | | | | | | 10/1 | 2 | | | | | | | | | | |
| | Programme | - | Fri 30/7/21 | Mon 13/10/25 | | | | | | | | | | | | | | | | | | - |
| 251 | Preparation & Submission of First Works Program | - | Fri 30/7/21 | Wed 4/8/21 | 2 | | | | | | | | | | | | | | | | | |
| 252 | Preparation & Submission of Three Months Rolling Program | 14 days | Fri 30/7/21 | Thu 12/8/21 | 2 | | | | | | | | | | | | | | | | | |
| | Taal. | • | atau - | - | | - | | | | | | | | | | | | | | | | |
| | Task Critical Task | Mile | estone 🔷 | Si | ummary 🤍 | Progr | ress | | | | | | | | | | | | | | | |

| | | | | | | Revis | sed Progra | amme: Septem | ber 2023 | | | | | | |
|----------|--|----------|--------------------------------|----------------------------|--------------|-------|------------|-----------------------|-------------|-------|--------|---------------|-----------|---|------|
| ID | Task Name | Duration | Start | Finish | Predecessors | 29/10 | 5/11 | November 202 12/11 | 23 19/11 | 26/1 | 1 3/12 | Dece 10/12 | mber 2023 | 2 | 4/1: |
| 253 | Program Review and Acceptance of First Program | 14 day | s Thu 5/8/21 | Wed 18/8/21 | 251 | | | | | | | | | | |
| 54 | Preparation and Submission of Detailed Works Program | 60 day | s Thu 19/8/21 | Sun 17/10/21 | 253,252 | | | | | | | | | | |
| 55 | Program Review and Acceptance of Works Program | 14 day | s Mon 18/10/21 | Sun 31/10/21 | 254 | | | | | | | | | | |
| 56 | Implementation of Programme Management and Monthly Reporting | 1443 day | s Mon 1/11/21 | Mon 13/10/25 | 255 | i% | | | | | | | | | |
| 57 | Permit and Licences | 60 day | s Fri 30/7/21 | Mon 27/9/21 | | | | | | | | | | | |
| 58 | Detailed construction sequences with associated traffic diversion schemes and obtain endorsement in principle from the relevant authorities and the | 30 day | s Fri 30/7/21 | Sat 28/8/21 | 2 | | | | | | | | | | |
| 59 | Risk Assessment for slope works | 7 day | s Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | |
| 50 | Welfare facilities for workers in accordance with requirements in PS Clause 1. | 7 day | s Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | |
| 61 | UU detection equipment brand/model | 7 day | s Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | |
| 62 | Certified calibration certificates | 7 day | s Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | |
| 63 | Contract Computer Facilities, Electronic Document Management System, Site Record Information System, Digital Works Supervision System and other | 6 day | s Fri 30/7/21 | Wed 4/8/21 | 2 | | | | | | | | | | |
| 64 | Name of the designated bank and all related arrangement details for payment of wages to all the Site Workers | 6 day | s Fri 30/7/21 | Wed 4/8/21 | 2 | | | | | | | | | | |
| 65 | Site Cleanliness and Tidiness | 7 day | s Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | |
| 66 | 3 sets of coloured record photos in SR size (recording existing building/ street furniture) | 7 day | s Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | |
| 67 | Contract Cars | 7 day | s Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | |
| 68 | Design of uniform for site workers | 7 day | s Fri 30/7/21 | Thu 5/8/21 | 2 | | | | | | | | | | |
| 69 70 | Survey Equipment for Initial survey Inclinometer access tubes - suppliers, material specification and samples of | | s Fri 30/7/21 s Fri 30/7/21 | Thu 5/8/21 Thu 12/8/21 | 2 | | | | | | | | | | |
| 71 | the tubes and couplings Payment of Wages System for Site Workers | - | s Fri 30/7/21 | Thu 12/8/21 | 2 | | | | | | | | | | |
| 72 | Tree survey record | | s Fri 30/7/21 | Thu 12/8/21 | 2 | | | | | | | | | | |
| 73 | Supply of Survey Equipment for PM use | | s Fri 30/7/21 | Sat 28/8/21 | 2 | | | | | | | | | | |
| 74 | Complete setting up and begin to operate the Security System | | s Fri 30/7/21 | Mon 27/9/21 | 2 | | | | | | | | | | |
| 74 75 | Initial Survey | | s Fri 30/7/21 | Mon 27/9/21 Mon 27/9/21 | 2 | | | | | | | | | | |
| 76 | Assessment for the risk resulting from working in hot weather | | s Fri 30/7/21 | Mon 27/9/21 | 2 | | | | | | | | | | |
| 77 | Contractor's Design | | s Fri 1/7/22 | Sun 28/1/24 | 2 | | | | | | | | | | |
| 78 | Architectural & Structural | | s Fri 1/7/22 | Fri 30/12/22 | | | | | | | | | | | |
| 79 | Prepare & Submission | | s Fri 1/7/22 | Sun 31/7/22 | 2 | | | | | | | | | | |
| 80 | Internal Review & Submission | | s Mon 1/8/22 | Mon 15/8/22 | 279 | | | | | | | | | | |
| 81 | PM Review & AIP | - | s Tue 16/8/22 | Wed 31/8/22 | 280 | | | | | | | | | | |
| 82 | Re-submission | , | s Thu 1/9/22 | Fri 30/9/22 | 281 | | | | | | | | | | |
| 83 | Design Checker Review & Endorsement | - | s Sat 1/10/22 | Fri 7/10/22 | 282 | | | | | | | | | | |
| 84 | DDA Submission (circulation to Government Authorities) | | s Sat 8/10/22 | Sat 15/10/22 | 283 | | | | | | | | | | |
| 85 | Time risk allowance for DDA processing | | s Sun 16/10/22 | Sat 22/10/22 | 284 | | | | | | | | | | |
| 86 | Vetting Process and Approval by Government Authorities and PM | | s Sun 23/10/22 | | 285 | | | | | | | | | | |
| 87 | Park lighting, irrigation system, smart system etc. | - | s Mon 14/11/22 | | | | | | | | | | | | |
| 288 | Covered walkway | , | s Fri 1/9/23 | Sun 28/1/24 | | | | | | | | | | | |
| 289 | Prepare | | s Fri 1/9/23 | Wed 29/11/23 | 2 | | | | | | 29/11 | | | | |
| 290 | Internal review, ICE, CSD and submission | | s Thu 30/11/23 | Fri 29/12/23 | 289 | | | | | 30/11 | • | | | | |
| 291 | AIP | | s Sat 30/12/23 | Sun 28/1/24 | 290 | | | | | | | | | 3 | 30/ |
| 292 | Contractor's Design [Enhancement on Architectural Design & Associated Works] | 803 day | s Fri 14/1/22 | Tue 26/3/24 | | | | | | | | | | | - |
| 93 | Engagement of Design Architectural Firm (CE 005) | 0 day | s Fri 14/1/22 | Fri 14/1/22 | | | | | | | | | | | |
| 294 | Enhancement on Architectual Design & Associated Works at Portions 1a, 2a and 2b (Quarry Lake) (CE 070) | 0 day | s Tue 4/4/23 | Tue 4/4/23 | 293 | | | | | | | | | | |
| 95 | AIP and approvals | 275 day | s Fri 1/7/22 | Sat 1/4/23 | | | | | | | | | | | |
| 296 | Schematic Landscape Master Plan (LMP), Design AIP, GBP approval | 153 day | s Fri 1/7/22 | Wed 30/11/22 | 293 | | | | | | | | | | |
| 297 | Production of AIP Drawings | 92 day | s Sat 31/12/22 | Sat 1/4/23 | 296 | | | | | | | | | | |
| 98 | DSD's AIP approval | 0 day | s Sat 1/4/23 | Sat 1/4/23 | 297 | | | | | | | | | | |
| 299 | Detailed Design Submission Schedule | 149 day | s Tue 4/7/23 | Thu 30/11/23 | | | | | | | | | | | |
| 800 | Statutory submission | 92 day | s Wed 30/8/23 | Thu 30/11/23 | 298 | | | | | | | | | | |
| 301 | FSD submission for GBP | 0 day | s Thu 30/11/23 | Thu 30/11/23 | | | | | | ۵ | 30/11 | | | | |
| 02 | WWO542 documment | 0 day | s Wed 30/8/23 | Wed 30/8/23 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | _ |



| ID Ta | k Name | Duration Start | Finish | Predecessors | | | ramme: September 2023 November 2023 | | | December 2023 | | January 2024 | |
|----------|--|--|--------------|---------------|---------|------|--|-------|-------|-------------------|-----------|--------------|------|
| 803 | Civil | 46 days Wed 30/8/23 | Sun 15/10/23 | 298 | 29/10 | 5/11 | 12/11 19/11 | 26/11 | 3/12 | 10/12 17/12 24/12 | 31/12 7/1 | 1 14/1 | 21/1 |
| 04 | Underground rain water drainage | | Sun 15/10/23 | | | | | | | | | | |
|)5 | Underground watermain | 0 days Wed 30/8/23 | Wed 30/8/23 | | | | | | | | | | |
| 06 | Undergroud sewerage | 0 days Sat 30/9/23 | Sat 30/9/23 | | | | | | | | | | |
| 07 | Irrigation | | Wed 30/8/23 | | | | | | | | | | |
| 08 | Landscape and Miscellaneous | , | Thu 30/11/23 | 298 | | | | | | | | | |
| 09 | Landscape | 56 days Mon 21/8/23 | | | | | | • | | | | | |
| 10 | Smart weir system | 0 days Mon 20/10/23 | | | 30/10 | | | | | | | | |
| 11 | Flood warning system | 0 days Thu 30/11/23 | | | V 00/10 | | | | 30/11 | | | | |
| 12 | Building | 92 days Tue 4/7/23 | Tue 3/10/23 | | | | | • | 00/11 | | | | |
| 13 | A1: Lavatories | 59 days Tue 4/7/23 | Thu 31/8/23 | | | | | | | | | | |
| 14 | Architecture | 32 days Mon 31/7/23 | Thu 31/8/23 | | | | | | | | | | |
| 15 | Structure | 0 days Tue 4/7/23 | Tue 4/7/23 | | | | | | | | | | |
| 16 | E& M | 8 days Mon 14/8/23 | Mon 21/8/23 | | | | | | | | | | |
| 17 | A2: Management Office Building | 38 days Tue 15/8/23 | Thu 21/9/23 | | | | | | | | | | |
| | Architecture | 17 days Tue 15/8/23 | Thu 31/8/23 | | | | | | | | | | |
| 18 19 | Structure | 0 days Mon 21/8/23 | Mon 21/8/23 | | | | | | | | | | |
| 20 | E& M | 8 days Thu 14/9/23 | Thu 21/9/23 | | | | | | | | | | |
| 20 | B1: Multi-Purpose Building | 45 days Tue 15/8/23 | Thu 21/9/23 | | | | | | | | | | |
| 22 | Architecture | 17 days Tue 15/8/23 | Thu 31/8/23 | | | | | | | | | | |
| 22 | Structure | 0 days Tue 15/8/23 | Tue 15/8/23 | | | | | | | | | | |
| | E& M | 8 days Thu 21/9/23 | Thu 28/9/23 | | | | | | | | | | |
| 24 | | | | | | | | | | | | | |
| 25 | B2: TX Room/Lavatories | 50 days Tue 15/8/23 29 days Tue 15/8/23 | Tue 3/10/23 | | | | | | | | | | |
| 26 | Architecture | | Tue 12/9/23 | | | | | | | | | | |
| 27 | Structure E& M | 0 days Wed 30/8/23 | Wed 30/8/23 | | | | | | | | | | |
| 28 | | 8 days Tue 26/9/23 | Tue 3/10/23 | | | | | | | | | | |
| 29 | C1: Storeroom/Lavatories | 32 days Mon 31/7/23 | Thu 31/8/23 | | | | | | | | | | |
| 30 | Architecture | 32 days Mon 31/7/23 | Thu 31/8/23 | | | | | | | | | | |
| 31 | Structure | 0 days Tue 15/8/23 | Tue 15/8/23 | | | | | | | | | | |
| 32 | E& M | 8 days Mon 14/8/23 | Mon 21/8/23 | | | | | | | | | | |
| 33 | C2: Water Treatment Plant Room | 39 days Tue 15/8/23 | Fri 22/9/23 | | | | | | | | | | |
| 34 | Architecture | 17 days Tue 15/8/23 | Thu 31/8/23 | | | | | | | | | | |
| 35 | Structure | 0 days Tue 15/8/23 | Tue 15/8/23 | | | | | | | | | | |
| 36 | E& M | 9 days Thu 14/9/23 | Fri 22/9/23 | 000 | | | | | | | | | |
| 37 | Schedule of Accommodation (SoA) Submission | 141 days Sun 2/4/23 | | 298 | | | | | | | | | |
| 38 | Stage 1 | 56 days Sun 2/4/23 | Sat 27/5/23 | | | | | | | | | | |
| 39 | Agree SoA with DSD | 14 days Sun 2/4/23 | Sat 15/4/23 | 220 | | | | | | | | | |
| 10 | Workshop | - | Sun 23/4/23 | 339 | | | | | | | | | |
| 41 | GPA submission and approval | · · · · · · · · · · · · · · · · · · · | Sat 27/5/23 | 340 | | | | | | | | | |
| 12 | Stage 2 | 63 days Mon 19/6/23 | Mon 21/8/23 | 341 | | | | | | | | | |
| 43 | Submission | 0 days Mon 19/6/23 | Mon 19/6/23 | 242 | | | | | | | | | |
| 44 | approval | - | Mon 21/8/23 | 343 | | | | | | | | | |
| 45 | DSD's VCAB submission | 183 days Fri 7/4/23 | Fri 6/10/23 | | | | | | | | | | |
| 46 | Stage 1 - AIP | 28 days Fri 7/4/23 | Thu 4/5/23 | | | | | | | | | | |
| 47 | Submission and presentation | 8 days Fri 7/4/23 | Fri 14/4/23 | | | | | | | | | | |
| 18 | Approval | 20 days Sat 15/4/23 | Thu 4/5/23 | 347 | | | | | | | | | |
| 19 | Stage 2 - Detailed design | 67 days Tue 1/8/23 | Fri 6/10/23 | 348 | | | | | | | | | |
| 50 | Submission and presentation | 0 days Tue 1/8/23 | Tue 1/8/23 | 050 | | | | | | | | | |
| 51 | VCAB meeting | 0 days Thu 7/9/23 | Thu 7/9/23 | 350 | | | | | | | | | |
| 52 | Approval | 30 days Thu 7/9/23 | Fri 6/10/23 | 351 | | | | | | | | | |
| 53 | Sub-letting (Cost Trimming Scheme) | 211 days Wed 1/3/23 | Wed 27/9/23 | 00050.00 | | | | | | | | | |
| 54 | Drawings for cost estimation | 30 days Wed 1/3/23 | Thu 30/3/23 | 298FS-32 days | | | | | | | | | |
| 55 | Tender approval | 11 days Fri 31/3/23 | Mon 10/4/23 | 354 | | | | | | | | | |
| | | | | | | | | | | | | | |

| | | | D | evelopment of An | | Revised P | | | | ng and Land | scape works | | | | | | | | | |
|---|---|---|------------------------------|------------------|-------------|-----------|------------|--------------------|-------------|-------------|-------------|---------------------|------|-------|-------|-----|---------------------|---|---|---------|
| Т | ask Name | Duration Start | Finish | Predecessors | 29/10 | 0 5/ | Nov /11 | vember 20 12/11 | 23 19/11 | 26/11 | 3/12 | December 2 10/12 | 2023 | 24/12 | 31/12 | 7/1 | January 202 14/1 | 4 | 1 | 28 |
| | Tender addendum | 8 days Mon 17/4/23 | Mon 24/4/23 | 355 | | | · · · · · | | | | | | | | | | | | | |
| | Sub-letting Period | 25 days Tue 4/4/23 | Fri 28/4/23 | 356FS-21 days | | | | | | | | | | | | | | | | |
| | Tender Assessment & approval | 12 days Sat 29/4/23 | Wed 10/5/23 | 357 | | | | | | | | | | | | | | | | |
| | PMI preparation | 58 days Thu 11/5/23 | Fri 7/7/23 | 358 | | | | | | | | | | | | | | | | |
| | Recost trimming by DSD | 21 days Sat 8/7/23 | Fri 28/7/23 | 359 | | | | | | | | | | | | | | | | |
| - | Resubmission of detailed design | 30 days Tue 8/8/23 | Wed 6/9/23 | 360 | | | | | | | | | | | | | | | | |
| - | Retendering | 21 days Thu 7/9/23 | Wed 27/9/23 | 361 | | | | | | | | | | | | | | | | |
| | Material submission | 181 days Thu 28/9/23 | Tue 26/3/24 | 362 | | | | | | | | | | | | | | | | |
| | Method Statements & Temporary Works | 792 days Fri 30/7/21 | Fri 29/9/23 | | | | | | | | | | | | | | | | | |
| | Prepartion & submission of generic method statement for site formation work | 60 days Tue 1/11/22 | Fri 30/12/22 | | | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | | | | | | | |
| | Preparation & submission of generic method statement for earth slope works | 60 days Tue 1/11/22 | Fri 30/12/22 | | | | | | | | | | | | | | | | | |
| | Preparation & submission of generic method statement for retaining wall construction Preparation & submission of generic method statement for G.I works | 60 days Wed 1/6/22 60 days Fri 30/7/21 | Sat 30/7/22 Mon 27/9/21 | | | | | | | | | | | | | | | | | |
| | | , | | | | | | | | | | | | | | | | | | |
| _ | Preparation & Submission of generic method statement for drainage works | 60 days Fri 30/7/21 | Mon 27/9/21 | | | | | | | | | | | | | | | | | |
| | Preparation and submission of generic method statement of road works | 60 days Tue 1/11/22 | Fri 30/12/22 | | | | | | | | | | | | | | | | | |
| | Preparation & submission of generic method statement of elevated walkway construction | 60 days Thu 1/6/23 | Sun 30/7/23 | | | | | | | | | | | | | | | | | |
| | Temporary Work for cut/fill slope works | 60 days Tue 1/11/22 | Fri 30/12/22 | | | | | | | | | | | | | | | | | |
| | Temporary Work for retaining wall construction | 60 days Wed 1/6/22 | Sat 30/7/22 | | | | | | | | | | | | | | | | | |
| | Temporary Work for elevated walkway construction | 60 days Tue 1/8/23 | Fri 29/9/23 | | | | | | | | | | | | | | | | | |
| | Temporary Work for road and drainage works | 60 days Fri 30/7/21 | Mon 27/9/21 | | | | | | | | | | | | | | | | | |
| | BIM Deliverable | 1567 days Fri 30/7/21 | Wed 12/11/25 | | | | | | | | | | | | | | | | | |
| | Submission of COBie Information Requirements for Asset Management | 30 days Fri 30/7/21 | Sat 28/8/21 | | | | | | | | | | | | | | | | | |
| | Submission of BIM Execution Plan in accordance with the PS Appendix 1.14D | 60 days Fri 30/7/21 | Mon 27/9/21 | | | | | | | | | | | | | | | | | |
| | Submission of Combined Services Drawings | 90 days Fri 30/7/21 | Wed 27/10/21 | | | | | | | | | | | | | | | | | |
| | Submission of proposal for BIM training plan Nomination of staff or subcontractor to attend BIM skill training courses under | 90 days Fri 30/7/21 120 days Fri 30/7/21 | Wed 27/10/21 Fri 26/11/21 | | | | | | | | | | | | | | | | | |
| | the pre approved list of the CITF managed by the CIC Collaboration and Model Sharing | 60 days Thu 28/10/21 | | 378FS+30 days | | | | | | | | | | | | | | | | |
| + | Monthly Coordination meeting& Submission of monthly BIM progress reports | 1417 days Mon 27/12/2 | | 382 | | | | | | | | | | | | | | | | |
| + | & Submission of 4D Simulation Submission of COBie data deliverables | 30 days Sun 14/9/25 | Mon 13/10/25 | 383FS-60 days | | | | | | | | | | | | | | | | |
| | Submission of a Fully Coordinated BIM Model with field verified in LOD 500 | 30 days Thu 2/10/25 | Fri 31/10/25 | 383FS-42 days | | | | | | | | | | | | | | | | |
| | Submission of O&M Manuals, Product Catalogues and Operating Data | 30 days Thu 2/10/25 | Fri 31/10/25 | 383FS-42 days | | | | | | | | | | | | | | | | |
| - | Submission of As-built drawings | 30 days Thu 2/10/25 | Fri 31/10/25 | 383FS-42 days | | | | | | | | | | | | | | | | |
| | Submission of Asset Data | 30 days Thu 2/10/25 | | 383FS-42 days | | | | | | | | | | | | | | | | |
| v | lork Area | 1572 days Fri 30/7/21 | Mon 17/11/25 | 5051 0 42 days | | | | | | | | | | | | | | | | |
| | CRE Site Office Design & ICE Endorsement | 30 days Fri 30/7/21 | Sat 28/8/21 | | | | | | | | | | | | | | | | | |
| - | - | | | 390 | | | | | | | | | | | | | | | | |
| | CRE Site office Design Review and Acceptance | 30 days Sun 29/8/21 | | | | | | | | | | | | | | | | | | |
| | CRE Site office Construction Works | 90 days Tue 28/9/21 | Sun 26/12/21 | 391 | | | | | | | | | | | | | | | | |
| | Completion of CRE Site office Construction Works | 0 days Mon 24/1/22 | | 392 | N 0/ | | | | | | | | | | | | | | | |
| | CRE Site office Mobilization & Maintenance | 1394 days Mon 24/1/22 | | 392,393 |)% | | | | | | | | | | | | | | | <u></u> |
| | Access for Works Area | 0 days Fri 30/7/21 | Fri 30/7/21 | 00550 4 1 | | | | | | | | | | | | | | | | |
| | Maintenance Duration for Works Area | 1566 days Sat 31/7/21 | Wed 12/11/25 | 395FS+1 day | | | | | | | | | | | | | | | | |
| | Vacate / Handover Works Area | 0 days Wed 12/11/2 | | | | | | | | | | | | | | | | | | |
| | Setting up Contractor's Project office | 90 days Tue 28/9/21 | | 2 | | | | | | | | | | | | | | | | |
| | Contractor Site office Maintenance | 1389 days Mon 24/1/22 | | 398 | | | | | | | | | | | | | | | | |
| C | onstruction Works | 1567 days? Fri 30/7/21 | Wed 12/11/25 | | | | | | | | | | | | | | | | | _ |
| | Section of Works 1 - Portions 1a, 2a, 2b | 1202 days Fri 30/7/21 | Tue 12/11/24 | | | | | | | | | | | | | | | | | |
| | Engagement of Design Architectural Firm (CE 005) Enhancement on Architectual Design & Associated Works at Portions 1a, 2a | 0 days Fri 14/1/22 0 days Fri 30/7/21 | Fri 14/1/22 Fri 30/7/21 | | | | | | | | | | | | | | | | | |
| | and 2b (Quarry Lake) (CE 070) | 0 00,011 00/1/21 | | | | | | | | | | | | | | | | | | |
| | Portion 1a | 929 days Fri 29/4/22 | Tue 12/11/24 | | | | | | | | | | | | | | | | | _ |
| | Provision of site access [273 days after starting date as per Contract] | 0 days Fri 29/4/22 | Fri 29/4/22 | 11SS | | | | | | | | | | | | | | | | |
| | Preparation& submission of MS, Temp works, associated plans & docs | 210 days Wed 1/2/23 | Tue 29/8/23 | 402,405 | | | | | | | | | | | | | | | | |
| - | Task Critical Task | Milestone 🔶 | | mman/ | - D | droce | | _ | | 1 | | | | | | | | | | _ |
| | LASK Critical Lask | Milestone 🔷 | Su | immary 🔍 | - Pro | gress | | | | | | | | | | | | | | |

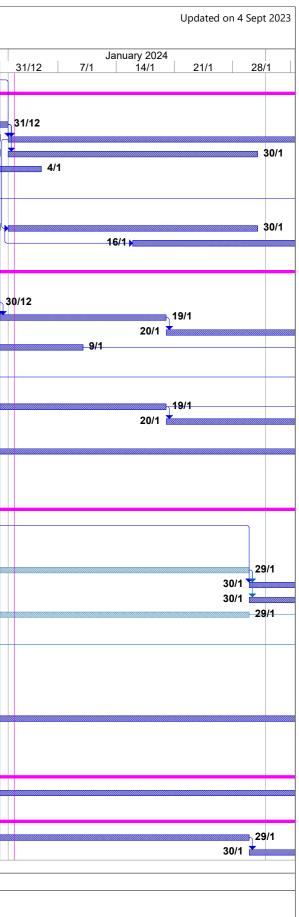
| | | | | | | Revi | ised Programme: September 202 | 5 | | | | |
|--------|--|---------------------------------------|--------------|-----------------|------|----------|----------------------------------|-------|-------|------------------------------------|--------------------------------|--------|
|) Task | < Name | Duration Start | Finish | Predecessors | | 9/10 | November 2023 5/11 12/11 19/1 | 26/11 | 3/12 | December 2023 10/12 17/12 24/12 | January 2024 31/12 7/1 14/1 | 21/1 2 |
| 7 | Engineer's AIP of MS, Temp works, plans & associated docs | 210 days Wed 1/3/23 | Tue 26/9/23 | 406SS+28 days | | | | | 0,12 | | | |
| 3 | Mobilization & Site Clearance | 14 days Fri 14/4/23 | Thu 27/4/23 | 405 | | | | | | | | |
|) | Time Risk Allowance | 14 days Fri 28/4/23 | Thu 11/5/23 | 408 | | | | | | | | |
|) | Urban Forest | 602 days Wed 22/3/23 | Tue 12/11/24 | | | | | | | | | |
| 1 | North Portion (Sloping) | 602 days Wed 22/3/23 | Tue 12/11/24 | | | | | | | | | |
| 2 | Watermain | 64 days Sat 21/10/23 | Sat 23/12/23 | | | - | | | | 23/12 | | |
| 3 | Site formation | 91 days Sun 24/12/23 | Sat 23/3/24 | 412 | | | | | | 24/12 | | |
| 1 | Soil replacement & bioswale system | 150 days Sun 24/3/24 | Tue 20/8/24 | 413 | | | | | | | | |
| 5 | Landscape wall and seat | 150 days Sun 24/3/24 | Tue 20/8/24 | 413 | | | | | | | | |
| 6 | U channel, edge and pavement | 150 days Sun 24/3/24 | Tue 20/8/24 | 413 | | | | | | | | |
| 7 | Tree transplanting from nursery | 84 days Wed 21/8/24 | Tue 12/11/24 | 418FF | | | | | | | | |
| 8 | Soft landscaping works | 84 days Wed 21/8/24 | Tue 12/11/24 | 414,415,416,438 | | | | | | | | |
| 9 | Boardwalk | 145 days Thu 1/2/24 | Mon 24/6/24 | | | | | | | | | |
| 0 | Structure | 100 days Thu 1/2/24 | Fri 10/5/24 | | | | | | | | | 1/ |
| 1 | Finishes | 45 days Sat 11/5/24 | Mon 24/6/24 | 420 | | | | | | | | |
| 2 | Application for electricity power supply | 224 days Wed 22/3/23 | Tue 31/10/23 | | | 31/10 | | | | | | |
| 3 | Lighting design | 210 days Wed 22/3/23 | Tue 17/10/23 | 422SS | | | | | | | | |
| 4 | Underground cable ducts | 90 days Sun 24/3/24 | Fri 21/6/24 | 423,413 | | | | | | | | |
| 5 | Application for water supply | 138 days Mon 26/6/23 | Fri 10/11/23 | | - | | - 10/11 | | | | | |
| 6 | Underground water supply for irrigation | 90 days Sun 24/3/24 | Fri 21/6/24 | 425,413 | - | | | | | | | |
| 7 | Lighting system | 92 days Thu 1/8/24 | Thu 31/10/24 | 424 | | | | | | | | |
| 8 | Irrigation system | 92 days Thu 1/8/24 | Thu 31/10/24 | 426 | | | | | | | | |
| 9 | Approval of WWO542 | 30 days Wed 1/11/23 | Thu 30/11/23 | | 1/11 | | | | 30/11 | | | |
| 0 | Approval of WWO 046 | 21 days Fri 1/12/23 | Thu 21/12/23 | | | | | 1/12 | | 21/12 | | |
| 1 | Underground water supply for irrigation | 90 days Fri 22/12/23 | Wed 20/3/24 | | | | | | | 22/12 | | |
| 2 | South Portion | 150 days Mon 1/4/24 | Wed 28/8/24 | | | | | | | | | |
| 3 | Shelter | 100 days Mon 1/4/24 | Tue 9/7/24 | | | | | | | | | |
| 4 | Construction of wetland | 150 days Mon 1/4/24 | Wed 28/8/24 | | | | | | | | | |
| 5 | Boardwalk | 90 days Mon 1/4/24 | Sat 29/6/24 | | | | | | | | | |
| 6 | Structure | 60 days Mon 1/4/24 | Thu 30/5/24 | | | | | | | | | |
| | Finishes | 30 days Fri 31/5/24 | Sat 29/6/24 | 436 | | | | | | | | |
| 7 8 | U channel, edge and pavement | 122 days Mon 1/4/24 | Wed 31/7/24 | 430 | | | | | | | | |
| | Portion 2a | 1171 days Mon 30/8/21 | Tue 12/11/24 | | | | | | | | | |
| 9 | Provision of site access [31 days after starting date as per Contract] | | Mon 6/9/21 | 16SS | - | | | | | | | |
| | Mobilization & Site Clearance | 8 days Mon 30/8/21 | | | | | | | | | | |
| 1 | | 14 days Tue 7/9/21 | Mon 20/9/21 | 440 | _ | | | | | | | |
| 2 | Preparation & submission of MS, Temp.works, associated plans & docs | 210 days Wed 1/2/23 | Tue 29/8/23 | 402 | | | | | | | | |
| 3 | Engineer's AIP of MS, Temp works, plans & associated docs | 210 days Wed 1/3/23 | Tue 26/9/23 | 442SS+28 days | _ | | | | | | | |
| 4 | Time Risk Allowance | 24 days Tue 21/9/21 | Thu 14/10/21 | 441 | | | | | | | | |
| 5 | Lake side | 590 days Wed 22/3/23 | Thu 31/10/24 | | - | | | | | | | |
| 6 | Pool edge, paving and finishing | 150 days Thu 1/2/24 | Sat 29/6/24 | | | | | | | | | 1/ |
| 7 | Application for electricity power supply | 210 days Wed 22/3/23 | Tue 17/10/23 | 44700 | | | | | | | | |
| 8 | Lighting design | 150 days Wed 22/3/23 | Fri 18/8/23 | 447SS | | | | | | | | |
| 9 | Underground cable ducts | 60 days Thu 1/2/24 | Sun 31/3/24 | 448 | | | | | | | | 1/ |
| 0 | Application for water supply | 128 days Mon 26/6/23 | Tue 31/10/23 | 450 | | 31/10 | | | | | | |
| 1 | Underground water supply for irrigation | 60 days Thu 1/2/24 | Sun 31/3/24 | 450 | | | | | | | | 1/ |
| 2 | Drainage pipes | 60 days Thu 1/2/24 | Sun 31/3/24 | 150 | | | | | | | | 1/ |
| 3 | Emergency vehicular access | 136 days Mon 1/4/24 | Wed 14/8/24 | 452 | | | | | | | | |
| 1 | Outstanding works by NE/2016/01 | · · · · · · · · · · · · · · · · · · · | Mon 30/10/23 | | | 30/10 | _ | | | | | |
| 5 | PMI: Additional works- C1 outstanding works | 30 days Mon 16/10/23 | | | | | 14/11 | | | | | |
| 6 | Bioswale near slope | 92 days Wed 15/11/23 | | | | | 15/11 | | | | | |
| 7 | Lighting system | | Mon 30/9/24 | 449 | | | | | | | | |
| 8 | Irrigation system | 141 days Wed 1/11/23 | | | | | | | | | | |
| 9 | Approval of WWO542 | 30 days Wed 1/11/23 | Thu 30/11/23 | | 1/11 | | | | 30/11 | | | |
| | | | | | | | | | | | | |
| | Task Critical Task | Milestone 🔷 | | nmary | | Progress | | | | | | |

| 3 Bui 4 (1) 5 / 6 / 7 / 8 / 9 / 1 / 2 / 3 1 4 / 5 / 6 / 7 1 2 / 3 0 1 / 2 / 3 0 1 / 2 / 3 0 4 / 5 / 6 / 7 0 8 / 9 / 0 / 1 / 2 / 2 / 2 / | Approval of WWO 046 Underground water supply for irrigation Soft landscaping works uildings Detailed designing A1: Lavatories Structural works Finishing and E&M works/Fire services T& C A2: Management Office Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation T& C | 21 days Fri 1/12/23 90 days Fri 22/12/23 92 days Thu 1/8/24 463 days Tue 8/8/23 214 days Tue 8/8/23 403 days Sat 7/10/23 151 days Sat 7/10/23 150 days Wed 6/3/24 28 days Wed 16/10/24 403 days Sat 7/10/23 150 days Sat 7/10/23 150 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 7/10/23 150 days Sat 7/10/23 150 days Sat 7/10/23 150 days Sat 1/3/42 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 10 days Mon 22/7/24 | Thu 31/10/24 Tue 12/11/24 Fri 8/3/24 Tue 12/11/24 Tue 5/3/24 Fri 2/8/24 Tue 12/11/24 Tue 12/11/24 Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 | 459 460 456 361SS 352 466 467,482SS 352 470 471,482SS 352 474 475,482SS | | 9/10 | 5/11 12/11 19/11 | <u>26/11</u> 1/12 | 3/12 | 10/12 17/12 2 21/12 22/12 | 24/12 | 31/12 7/1 |
|---|---|---|---|---|--|----------|------------------|----------------------|------|---------------------------------|-------|-----------|
| 2 S 3 Bui 4 I 5 J 6 J 7 J 8 J 9 J 1 J 2 J 3 I 4 J 5 J 6 J 7 I 8 J 9 J 1 J 2 J 3 G 4 J 5 J 6 J 7 G 8 J 9 J 1 J 2 J 3 G 4 J 5 J 6 J 7 G 8 J 9 J 1 J 2 Wat | Soft landscaping works uildings Detailed designing A1: Lavatories Structural works Finishing and E&M works/Fire services T& C A2: Management Office Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 92 days Thu 1/8/24 463 days Tue 8/8/23 214 days Tue 8/8/23 403 days Sat 7/10/23 151 days Sat 7/10/23 150 days Wed 6/3/24 28 days Wed 6/3/24 403 days Sat 7/10/23 150 days Sat 7/10/23 150 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 1/3/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Thu 31/10/24 Tue 12/11/24 Fri 8/3/24 Tue 12/11/24 Tue 5/3/24 Fri 2/8/24 Tue 12/11/24 Tue 12/11/24 Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 456 361SS 352 466 467,482SS 352 470 471,482SS 352 470 471,482SS 352 474 | | | | | | 22/12 | | |
| 3 Bui 4 | uildings Detailed designing A1: Lavatories Structural works Finishing and E&M works/Fire services T& C A2: Management Office Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 463 days Tue 8/8/23 214 days Tue 8/8/23 403 days Sat 7/10/23 151 days Sat 7/10/23 150 days Wed 6/3/24 28 days Wed 6/3/24 403 days Sat 7/10/23 150 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 13/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Tue 12/11/24 Fri 8/3/24 Tue 12/11/24 Tue 5/3/24 Fri 2/8/24 Tue 12/11/24 Tue 12/11/24 Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 | 361SS 352 466 467,482SS 352 470 471,482SS 352 471 471,482SS | | | | | | | | |
| 4 1 5 7 6 7 7 7 8 7 9 7 1 7 2 7 3 1 5 6 6 7 7 1 2 7 3 1 2 7 3 1 2 7 3 1 2 1 3 1 4 1 5 1 6 1 7 1 1 1 2 1 2 1 2 1 2 1 2 1 | Detailed designing A1: Lavatories A1: Lavatories Structural works Finishing and E&M works/Fire services T& C A2: Management Office Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 214 days Tue 8/8/23 403 days Sat 7/10/23 151 days Sat 7/10/23 150 days Wed 6/3/24 28 days Wed 6/3/24 28 days Wed 6/3/24 403 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 13/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Fri 8/3/24 Tue 12/11/24 Tue 5/3/24 Fri 2/8/24 Tue 12/11/24 Tue 12/11/24 Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 352 466 467,482SS 352 470 471,482SS 352 471 471,482SS | | | | | | | | |
| 5 / 5 / 6 / 7 / 8 / 9 / 9 / 1 / 2 / 3 1 4 / 5 / 6 / 7 1 2 / 3 / 4 / 5 / 6 / 7 / 6 / 7 / 6 / 7 / 6 / 7 / 6 / 7 / 6 / 7 / 6 / 7 / 6 / 7 / 7 / 7 / 8 / 9 / 1 / 2 Wat | A1: Lavatories Structural works Finishing and E&M works/Fire services T& C A2: Management Office Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 403 days Sat 7/10/23 151 days Sat 7/10/23 150 days Wed 6/3/24 28 days Wed 6/3/24 28 days Wed 16/10/24 403 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 7/10/23 150 days Sat 7/10/23 150 days Sat 7/10/23 150 days Sat 13/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Tue 12/11/24 Tue 5/3/24 Fri 2/8/24 Tue 12/11/24 Tue 12/11/24 Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 | 352 466 467,482SS 352 470 471,482SS 352 471 471,482SS | | | | | | | | |
| 5 7 3 9 1 2 3 4 5 6 7 8 9 1 2 3 4 5 5 5 6 7 6 7 7 6 7 6 7 7 6 9 0 1 2 Wat | Structural works Finishing and E&M works/Fire services T& C A2: Management Office Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 151 days Sat 7/10/23 150 days Wed 6/3/24 28 days Wed 16/10/24 403 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 13/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Tue 5/3/24 Fri 2/8/24 Tue 12/11/24 Tue 12/11/24 Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 466 467,482SS 352 470 471,482SS 352 352 474 | | | | | | | | |
| 7 | Finishing and E&M works/Fire services T& C A2: Management Office Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 150 days Wed 6/3/24 28 days Wed 16/10/24 403 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 7/10/23 150 days Sat 13/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Fri 2/8/24 Tue 12/11/24 Tue 12/11/24 Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 466 467,482SS 352 470 471,482SS 352 352 474 | | | | | | | | |
| 3 | T& C A2: Management Office Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 28 days Wed 16/10/24 403 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 13/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Tue 12/11/24 Tue 12/11/24 Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 467,482SS 352 470 471,482SS 352 352 474 | | | | | | | | |
| 9 // 9 // 1 // 2 // 3 // 4 // 5 // 6 // 9 // 1 // 2 // 3 // 9 // 1 // 2 // 3 // 4 // 5 // 6 // 7 // 6 // 9 // 0 // 1 // 2 Wat | A2: Management Office Building Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Tak C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 403 days Sat 7/10/23 189 days Sat 7/10/23 150 days Sat 13/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Tue 12/11/24 Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 352 470 471,482SS 352 474 | - - - - - - - - - - | | | | | | | |
| D 1 2 3 I 4 5 6 7 I 8 9 1 2 3 O 1 2 3 O 4 5 6 7 O 3 O 4 5 6 7 O 8 O 9 O 1 Val 2 Wat | Structural works Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 189 days Sat 7/10/23 150 days Sat 13/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Fri 12/4/24 Mon 9/9/24 Tue 12/11/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 470 471,482SS 352 474 | | | | | | | | |
| 1 2 3 I 4 | Finishing and E&M works/Fire services T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 150 days Sat 13/4/24 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Mon 9/9/24 Tue 12/11/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 470 471,482SS 352 474 | | | | | | | | |
| 2 3 1 3 1 5 - 5 - 6 - 7 1 2 - 3 0 4 - 5 - 6 - 7 0 8 - 9 - 0 - 1 - 2 - 0 - 1 - 2 Wat | T& C B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 28 days Wed 16/10/24 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Tue 12/11/24 Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 471,482SS 352 474 | | | | | | | | 1 |
| 3 1 4 | B1: Multi-Purpose Building Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 389 days Sat 21/10/23 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sat 31/3/24 | Tue 12/11/24 Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 352 474 | | | | | | | | |
| 4 5 5 6 7 1 3 0 1 2 3 0 4 55 63 9 10 11 12 13 14 15 16 17 10 12 12 13 2 Wat | Structural works Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 191 days Sat 21/10/23 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Sun 28/4/24 Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 474 | | | | | | | | |
| 5 63 7 8 9 9 1 22 33 0 4 55 63 9 10 11 12 13 14 15 16 17 18 19 11 22 Wat | Finishing and E&M works/Fire services T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 135 days Mon 29/4/24 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Tue 10/9/24 Tue 12/11/24 Tue 12/11/24 | 474 | | | | | | | | |
| 6 1 7 1 9 1 1 1 2 1 3 0 4 1 5 1 6 1 7 0 8 1 9 1 2 Wat | T& C B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 28 days Wed 16/10/24 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Tue 12/11/24 Tue 12/11/24 | | - | | | | | | | |
| 7 1 3 | B2: TX Room/Lavatories Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 375 days Sat 4/11/23 219 days Sat 4/11/23 113 days Sun 31/3/24 | Tue 12/11/24 | 475,482SS | | | | | | | | |
| 7 1 3 | Structural works Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 219 days Sat 4/11/23 113 days Sun 31/3/24 | | | 1 | | | | | | | |
| B B C Wat | Finishing and E&M works/Fire services Hand-over of Transformer Room CLP installation and energisation | 113 days Sun 31/3/24 | Sun 9/6/24 | | 1 | | | | | | | |
| D | Hand-over of Transformer Room CLP installation and energisation | - | | 352 | | 4/11 | - | | | | | |
| 1 2 3 4 5 5 6 7 0 3 9 0 1 2 Wat | CLP installation and energisation | 10 days Mon 22/7/24 | Sun 21/7/24 | 478FS-71 days | | | | | | | | |
| 1 2 3 4 5 5 6 7 0 3 9 0 1 2 Wat | • | | Wed 31/7/24 | 479 | | | | | | | | |
| 2 (1) 3 (1) 5 (1) 5 (1) 5 (1) 5 (1) 6 (1) 7 | • | 76 days Thu 1/8/24 | Tue 15/10/24 | 480 | | | | | | | | |
| 3 (0 4) 5) 6) 7 (0 8) 9) 0) 1) 2 Wat | | 28 days Wed 16/10/24 | Tue 12/11/24 | 481 | | | | | | | | |
| 4 5 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | C1: Storeroom/Lavatories | 340 days Sat 9/12/23 | Tue 12/11/24 | | 1 | | | | | | | |
| 5 6 7 8 9 9 1 2 Wat | Structural works | 124 days Sat 9/12/23 | Wed 10/4/24 | 352 | - | | | | 9/12 | | | |
| 6 (7 (8) 9) 1) 2 (Wat | Finishing and E&M works/Fire services | 150 days Thu 4/4/24 | Sat 31/8/24 | 484FS-7 days | | | | | • | | | |
| 7 (3 9 0 1 2 Waf | T& C | - | Tue 12/11/24 | 485,482SS | - | | | | | | | |
| 8 9 0 1 2 Wat | C2: Water Treatment Plant Room | 403 days Sat 7/10/23 | Tue 12/11/24 | 100,10200 | | | | | | | | |
| 9 D 1 2 Wat | Modification to existing structure | 230 days Sat 7/10/23 | Thu 23/5/24 | 352 | | | | | | | | 1 |
| D 1 2 Wat | Structural works | 132 days Wed 10/4/24 | Mon 19/8/24 | 488FS-44 days | - | | | | | | | |
| 1 2 Wat | Finishing work, E&M installation & Fire service and T & C | 102 days Ved 10/4/24 | Tue 15/10/24 | 489FS-45 days | | | | | | | | |
| 2 Wat | Final T&C with permanent supply | - | Tue 12/11/24 | 490,481 | - | | | | | | | |
| | later play installation at A2 | 90 days Mon 3/6/24 | Sat 31/8/24 | 430,401 | - | | | | | | | |
| | xternal works | 590 days Wed 22/3/23 | Thu 31/10/24 | | - | | | | | | | |
| | | • | Tue 31/10/23 | 422SS | | 31/1 | 0 | | | | | |
| | Application for electricity power supply | , | Sun 31/12/23 | 42233 494SS | - | 31/10 | U | | | | | 24/42 |
| | Lighting design (1/12/2023) | 285 days Wed 22/3/23 | | | | | | | | | | 31/12 |
| | Underground cable ducts | 121 days Mon 1/4/24 | Tue 30/7/24 | 449,495 | - | | | | | | | |
| | Approval of WWO 542 Approval of WWO 046 | 30 days Mon 26/6/23 | Tue 25/7/23 | 425SS | - | | | | | | | |
| | | 21 days Wed 26/7/23 | Tue 15/8/23 | 497 | | | | | | 4440 | | |
| | Underground water supply for irrigation | 121 days Wed 16/8/23 | Thu 14/12/23 | 498 | | | | | | 14/12 | | |
| - | Irrigation system | 61 days Thu 1/8/24 | Mon 30/9/24 | | | 2014.0 | | | | | | |
| | Approval of ighting systtem by LCSD | 30 days Sun 1/10/23 | | 501 | | 30/10 | | | | | | |
| | Lighting system | 61 days Thu 1/8/24 | Mon 30/9/24 | 501 | - | | | | | | | |
| | Drainage pipes | 121 days Mon 1/4/24 | Tue 30/7/24 | 400 400 500 | - | | | | | | | |
| | Road, pavement and other features | 92 days Wed 31/7/24 | Wed 30/10/24 | 496,499,503 | 1 | | | | | | | |
| - | Soft landscaping | 92 days Thu 1/8/24 | Thu 31/10/24 | | - | | | | | | | |
| - | PMI-Additional drainage pipe for Quarry Park (Early Start) | 121 days Fri 1/12/23 | Sat 30/3/24 | | 1 | | | 1/12 | | | | |
| | reparation of O&M Manual | 150 days Thu 1/2/24 | Sat 29/6/24 | | - | | | | | | | |
| | s-built drg/model | 180 days Mon 22/4/24 | Fri 18/10/24 | | - | | | | | | | |
| 9 Portio | | 1159 days Fri 30/7/21 | Mon 30/9/24 | | _ | | | | | | | |
| | rovision of site access [137 days after starting date as per Contract] | 7 days Tue 14/12/21 | Mon 20/12/21 | 21SS | | | | | | | | |
| - | obilization & Site Clearance | 16 days Tue 21/12/21 | Wed 5/1/22 | 510 | | | | | | | | |
| 2 Pre | reparation & submission of MS, Temp works, associated plans & docs | 240 days Wed 5/1/22 | Thu 1/9/22 | 511 | | | | | | | | |
| | | | | | | | | | | | | |
| | Task Critical Task | Milestone 🔷 | Su | mmary 🗸 | | Progress | | | | | | |

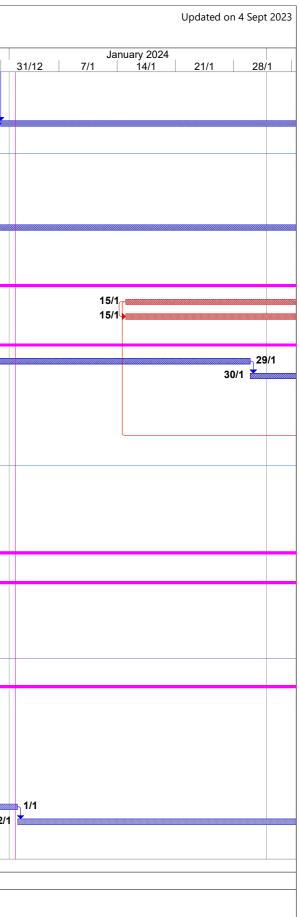
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| | iternational Water & Electric Corp. | | D | evelopment of A | nders | on Road Quarry Site | ct No. ED/2020/02 - Infrastructure, Gree me: September 2023 | ning and La | ndscape Works | | | | | | updated o | on 4 Sept 2 |
|---|---|--|--|---|-------|---------------------|---|-------------|---------------|------------------------------|-------|-------|-----|----------------------|-----------|-------------|
| ID 1 | ask Name | Duration Start | Finish | Predecessors | |) 9/10 5/11 | ovember 2023 12/11 19/11 | 26/1 | 1 3/12 | December 2023 10/12 17/12 | 24/12 | 31/12 | 7/1 | January 2024 14/1 | 4 21/1 | 28/1 |
| 513 | Engineer's AIP of MS, Temp., works, plans & associated docs | 240 days Wed 2/2/22 | Thu 29/9/22 | 512SS+28 days | | | | | | | | | | | | |
| 514 | Time Risk Allowance | 15 days Fri 30/9/22 | Fri 14/10/22 | 513 | 1 | | | | | | | | | | | |
| 515 | Water leakage test within the lake by others | 42 days Thu 20/10/22 | Wed 30/11/22 | 518 | 1 | | | | | | | | | | | |
| 516 | Completion of rectification works for leakage test within lake by others | 0 days Tue 3/10/23 | Tue 3/10/23 | 529 | 1 | | | | | | | | | | | |
| 517 | Artificial Lake Island | 1036 days Fri 30/7/21 | Thu 30/5/24 | | | | | | | | | | | | | |
| 518 | Gabion wall | 80 days Mon 1/8/22 | Wed 19/10/22 | 513FS-60 days | | | | | | | | | | | | |
| 519 | Outstanding works by NE/2016/01 | 823 days Fri 30/7/21 | Mon 30/10/23 | | | 30/10 | | | | | | | | | | |
| 520 | Reconstruction of Gabion wall (actual start subject to C1) | 60 days Tue 3/10/23 | Fri 1/12/23 | 516 | | | | | 1/12 | | | | | | | |
| 521 | Placement of boulder (Stage 1) | 151 days Thu 1/12/22 | Sun 30/4/23 | 515 | 1 | | | | | | | | | | | |
| 522 | Relaying of boulder (actual start subject to C1) | 60 days Tue 3/10/23 | Fri 1/12/23 | 516 | | | | | 1/12 | | | | | | | |
| 523 | Soil replacement (Stage 2) (actual start subject to C1) | 60 days Tue 3/10/23 | Fri 1/12/23 | 516 | | | | | 1/12 | | | | | | | |
| 524 | Soft landscaping | 30 days Wed 1/5/24 | Thu 30/5/24 | 523 | | | | | | | | | | | | |
| 525 | Artificial lake | 731 days Sat 1/10/22 | Mon 30/9/24 | | | | | | | | | | | | | |
| 526 | Granite stone facing | 547 days Sat 1/10/22 | Sat 30/3/24 | | | | | | | | | | | | | |
| 527 | Mock up | 15 days Sat 1/10/22 | Sat 15/10/22 | | | | | | | | | | | | | |
| 528 | Late delivery of granite stone due to COVID 19 | 0 days Mon 5/12/22 | | 527 | 1 | | | | | | | | | | | |
| 529 | Installation (Phase 1) | 162 days Mon 5/12/22 | | 528,515 | 1 | | | | | | | | | | | |
| 530 | resumption of installation (Phase 2) (actual start subject to C1) | 180 days Tue 3/10/23 | Sat 30/3/24 | 516 | | | | | | | | | | | | |
| 531 | Construction of viewing steps (actual start subject to C1) | 121 days Tue 3/10/23 | Wed 31/1/24 | 516 | | | | | | | | | | | | |
| 532 | Finishing for viewing decks A & B and viewing steps | 106 days Fri 16/2/24 | Fri 31/5/24 | 531 | - | | | | | | | | | | | |
| 533 | Protective pavement behind floating bridge | 92 days Fri 1/3/24 | Fri 31/5/24 | 532SS+14 days | - | | | | | | | | | | | |
| 534 | CNC walls | 92 days Fri 1/3/24 | Fri 31/5/24 | 532SS+14 days | - | | | | | | | | | | | |
| 535 | Soil replacement/Eco bag for Riparian Zones A, B & C | 122 days Fri 1/3/24 | Sun 30/6/24 | 532SS+14 days | - | | | | | | | | | | | |
| 536 | Planting works for Riparian zone A, B & C | 92 days Mon 1/7/24 | Mon 30/9/24 | 535 | | | | | | | | | | | | |
| 537 | Boulder placement (400 nos.) (actual start subject to C1) | 90 days Tue 3/10/23 | Sun 31/12/23 | 516 | | | | | | | | 31/12 | | | | |
| 538 | Sloping Lawn | 92 days Mon 1/7/24 | Mon 30/9/24 | 539 | - | | | | | | | | | | | |
| 539 | Nursery for Plantings | 447 days Tue 11/4/23 | Sun 30/6/24 | | | | | | | | | | | | | |
| 540 | Shelters and planter seats | 106 days Fri 1/12/23 | Fri 15/3/24 | | - | | | 1/12 | | | | | | | | |
| 541 | Stoplog, smart weir and overflow chamber | 90 days Mon 1/1/24 | Sat 30/3/24 | | - | | | | | | 1/1 | | | | | |
| | - · · · · · · · · · · · · · · · · · · · | | | | | | | | | | 1/1 | | | | | |
| 04Z | Section of Works 1A - Establishment Works for all Landscape Softworks | | | | | | | | | | 1/1 | | | | | |
| 542 | Section of Works 1A - Establishment Works for all Landscape Softworks in Section 1 of the Works | 365 days Wed 13/11/2 | 4 Wed 12/11/25 | | _ | | | | | | 1/1 | | | | | |
| 543 | in Section 1 of the Works Commencement of Establishment Work for Section 1 | 365 days Wed 13/11/2 0 days Wed 13/11/2 | Wed 12/11/25 Wed 13/11/24 | 491FS+1 day | - | | | | | | 1/1 | | | | | |
| 543 544 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 | 543SS-1 day | - | | | | | | 1/1 | | | | | |
| 543 544 545 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 Completion of Works in Section 1 | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 0 days Wed 12/11/2 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 Wed 12/11/25 | | - | | | | | | 1/1 | | | | | |
| 543 544 545 546 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 Completion of Works in Section 1 Section of Works 2 - Portion 8 | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 12/11/2 1082 days? Fri 30/7/21 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 Wed 12/11/25 Mon 15/7/24 | 543SS-1 day | - | | | | | | 1/1 | | | | | |
| 543 544 545 546 547 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 Completion of Works in Section 1 Section of Works 2 - Portion 8 Portion 8 | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 12/11/2 1082 days? Fri 30/7/21 1082 days? Fri 30/7/21 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Mon 15/7/24 Mon 15/7/24 | 543SS-1 day 544 | - | | | | | | 1/1 | | | | | |
| 543 544 545 546 547 548 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 Completion of Works in Section 1 Section of Works 2 - Portion 8 Portion 8 Provision of site access [on starting date as per Contract] | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 1082 days? Fri 30/7/21 1082 days? Fri 30/7/21 1082 days? Fri 30/7/21 7 days Fri 30/7/21 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Mon 15/7/24 Mon 15/7/24 Thu 5/8/21 | 543SS-1 day 544 32SS | - | | | | | | | | | | | |
| 543 544 545 546 547 548 548 549 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 Completion of Works in Section 1 Section of Works 2 - Portion 8 Portion 8 Provision of site access [on starting date as per Contract] Mobilization& Site Clearance | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 12/11/2 1082 days? Fri 30/7/21 1082 days? Fri 30/7/21 7 days Fri 30/7/21 14 days Fri 6/8/21 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Mon 15/7/24 Mon 15/7/24 Thu 5/8/21 Thu 19/8/21 | 543SS-1 day 544 32SS 548 | - | | | | | | | | | | | |
| 543 544 545 546 547 548 548 549 550 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 Completion of Works in Section 1 Section of Works 2 - Portion 8 Portion 8 Provision of site access [on starting date as per Contract] Mobilization& Site Clearance Preparation & submission of MS, Temp works, associated plans & docs | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 1082 days? Fri 30/7/21 1082 days? Fri 30/7/21 7 days Fri 30/7/21 14 days Fri 6/8/21 52 days Fri 20/8/21 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Mon 15/7/24 Thu 5/8/21 Thu 19/8/21 Sun 10/10/21 | 543SS-1 day 544 32SS 548 549 | | | | | | | | | | | | |
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| 543 544 545 546 547 548 549 550 551 552 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 Completion of Works in Section 1 Section of Works 2 - Portion 8 Portion 8 Portion 8 Provision of site access [on starting date as per Contract] Mobilization& Site Clearance Preparation & submission of MS, Temp works, associated plans & docs Engineer's AIP of MS, Temp works, plans& associated docs Drainage pipe and manhole | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 365 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 1082 days? Fri 30/7/21 1082 days? Fri 30/7/21 1082 days? Fri 30/7/21 14 days Fri 6/8/21 52 days Fri 20/8/21 22 days Mon 11/10/2 350 days Tue 2/11/21 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Mon 15/7/24 Mon 15/7/24 Thu 5/8/21 Thu 19/8/21 Sun 10/10/21 Mon 11/1/21 | 543SS-1 day 544 32SS 548 549 550 | | | | | | | | | | | | |
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| 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 Completion of Works in Section 1 Section of Works 2 - Portion 8 Portion 8 Provision of site access [on starting date as per Contract] Mobilization& Site Clearance Preparation & submission of MS, Temp works, associated plans & docs Engineer's AIP of MS, Temp works, plans& associated docs Drainage pipe and manhole Excavation Pipe laying and manhole construction including backfilling Excavation of or glenter Awaiting for revision of design by PM Time Risk Allowance Application for electricity power supply Lighting design Approval of lighting design by LCSD Testing and commissioning of lighting Irrigation system | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 365 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 0 days Wed 13/11/2 1082 days? Fri 30/7/21 1082 days? Fri 30/7/21 1082 days? Fri 30/7/21 14 days Fri 30/7/21 14 days Fri 20/8/21 22 days Mon 11/10/2 350 days Tue 2/11/21 205 days Tue 7/12/21 20 days Wed 28/9/22 219 days Tue 18/10/22 338 days Mon 14/11/2 321 days Mon 14/11/2 321 days Sun 1/10/23 30 days Thu 13/6/24 1 day? Fri 30/7/21 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Won 15/7/24 Mon 15/7/24 Thu 5/8/21 Thu 19/8/21 Sun 10/10/21 Mon 1/11/21 Mon 17/10/22 Mon 17/10/22 Mon 17/10/22 Wed 24/5/23 Mon 31/10/22 Part 12/1/24 Fri 12/7/24 Fri 30/7/21 | 543SS-1 day 544 32SS 548 549 550 551 553SS+35 days 555 555 555 555 555 555 558SS 559 | | -31/10 | | | | | | | | | | |
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| 443 444 445 446 447 448 449 550 551 555 556 557 558 559 660 661 662 663 664 | in Section 1 of the Works Commencement of Establishment Work for Section 1 Establishment Work Duration for Section 1 Completion of Works in Section 1 Section of Works 2 - Portion 8 Portion 8 Provision of site access [on starting date as per Contract] Mobilization& Site Clearance Preparation & submission of MS, Temp works, associated plans & docs Engineer's AIP of MS, Temp works, plans& associated docs Drainage pipe and manhole Excavation Pipe laying and manhole construction including backfilling Excavation of relater Awaiting for revision of design by PM Time Risk Allowance Application for electricity power supply Lighting design Approval of lighting design by LCSD Testing and commissioning of lighting Irrigation system Approval of WWO542 Approval of Form WWO 046 | 365 days Wed 13/11/2 0 days Wed 13/11/2 365 days Wed 13/11/2 365 days Wed 13/11/2 0 days Wed 12/11/2 1082 days? Fri 30/7/21 1082 days Fri 30/7/21 1082 days Fri 30/7/21 1082 days Fri 30/7/21 1082 days Fri 30/7/21 114 days Fri 30/7/21 20 days Mon 11/10/2 350 days Tue 2/11/21 20 days Wed 28/9/22 219 days Tue 18/10/22 219 days Tue 18/10/22 338 days Mon 14/11/2 321 days Mon 14/11/2 330 days Thu 13/6/24 1 day? Fri 30/7/21 30 days Mon 37/23 30 days Mon 37/23 321 days Mon 37/23 321 days Thu 3/8/23 | Wed 12/11/25 Wed 13/11/24 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Wed 12/11/25 Won 15/7/24 Mon 15/7/24 Thu 5/8/21 Thu 19/8/21 Sun 10/10/21 Mon 11/1/21 Mon 17/10/22 Mon 17/10/22 Wed 24/5/23 Mon 31/10/22 Pertual 11/10/23 Part 12/1/24 Fri 12/7/24 Fri 30/7/21 Wed 23/8/23 Wed 10/7/24 | 543SS-1 day 544 32SS 548 549 550 551 553SS+35 days 555 555 555 555 555 555 555 555 559 623,644,585,573,603 | 3 | | | | | | | | | | | |

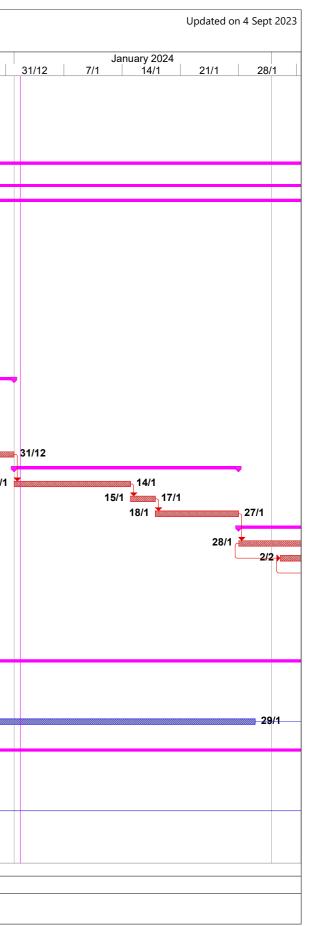
| ID Ta | sk Name | Duration | Start | Finish | Predecessors | | | | | mber 202 | | | | 0.00 | . | Decemb | | | | |
|------------|---|----------|----------------|---------------------------|--------------------|-------------------|-------|------|----|----------|-------|---|-------|-------|----------|--------|-------|----|-------|-----|
| 566 | Awaiting planter seat design from PM due to interfacing parties | 11 days | Thu 5/10/23 | Sun 15/10/23 | | 29 | 9/10 | 5/11 | 12 | 2/11 | 19/11 | 1 | 26/11 | 3/1: | 2 | 10/12 | 17/1 | 12 | 24/12 | |
| 567 | Stage 1 | | 5 Thu 24/8/23 | Fri 31/5/24 | | | | | | | | | | | | | | | | |
| 568 | Awaiting completion of C1 remedial works (postponed to 31 Oct 202 | 61 days | s Fri 1/9/23 | Tue 31/10/23 | | | 31/10 | | | | | | | | | | | | | |
| 569 | Planter | 61 days | Wed 1/11/23 | Sun 31/12/23 | 568 | 1/11 _c | - | | | | | | | | | | | | | _ |
| 570 | Seat | 50 days | Mon 1/1/24 | Mon 19/2/24 | 569,566 | | | | | | | | | | | | | | 1 | 1/1 |
| 571 | Soil replacement | 30 days | Mon 1/1/24 | Tue 30/1/24 | 569 | | | | | | | | | | | | | | 1 | 1/1 |
| 572 | Underground cable ducts and draw pits | 45 days | Tue 21/11/23 | Thu 4/1/24 | 569SS+20 days | (| | | | 21/1 | 1) | | | | | | | | | |
| 573 | Lighting system | 45 days | s Sun 14/4/24 | Tue 28/5/24 | 623SS | | | | | | | | | | | | | | | |
| 574 | Underground water supply for irrigation | 45 days | s Thu 24/8/23 | Sat 7/10/23 | 564 | | | | | | | | | | | | | | | |
| 575 | Irrigation system | 30 days | s Sun 14/4/24 | Mon 13/5/24 | 625SS,574 | | | | | | | | | | | | | | | |
| 576 | U channel | 30 days | Mon 1/1/24 | Tue 30/1/24 | 570SS | | | | | | | | | | | | | | 1 | 1/1 |
| 577 | Edge and pavement | 35 days | 5 Tue 16/1/24 | Mon 19/2/24 | 576SS+15 days | | | | | | | | | | | | | | | |
| 578 | Terrazzo fininshing to panter wall, seat wall and panter kerb | | s Thu 2/5/24 | Fri 31/5/24 | 570 | | | | | | | | | | | | | | | |
| 579 | Stage 2 | | s Sun 18/6/23 | Wed 10/7/24 | | | | | | | | | | | | | | | | ++ |
| 580 | Awaiting removal of the u-turning by C1 | | s Sun 18/6/23 | Thu 30/11/23 | | | | | | | | | | 30/11 | | | | | | |
| 581 | Planter | | s Fri 1/12/23 | Sat 30/12/23 | 580 | | | | | | | | 1/12 | | | | | | | 3 |
| 582 | Seat | | s Sun 31/12/23 | Fri 19/1/24 | 581,566 | | | | | | | | | | | | | | 31/12 | 1 |
| 583 | Soil replacement | | s Sat 20/1/24 | Thu 8/2/24 | 582 | | | | | | | | | | | | | | | |
| 584 | Underground cable ducts and draw pits | | s Thu 21/12/23 | Tue 9/1/24 | 581SS+20 days | | | | | | | | (| | | | 21/12 | • | | |
| 585 | Lighting system | | Sun 14/4/24 | Fri 3/5/24 | 573SS,584 | | | | | | | | | | | | | | | |
| 586 | Underground water supply for irrigation | | s Thu 24/8/23 | Tue 12/9/23 | 564 | | | | | | | | | | | | | | | |
| 587 | Irrigation system | | Sun 14/4/24 | Sun 28/4/24 | 585SS,586 | | | | | | | | | | | | | | 24/40 | |
| 588 | U channel | | Sun 31/12/23 | Fri 19/1/24 | 582SS 588 | | | | | | | | | | | | | | 31/12 | |
| 589 590 | Edge and pavement | | Sat 20/1/24 | Thu 8/2/24 Thu 20/6/24 | 578 | | | | | | | | | | | | | | | |
| 590 591 | Terrazzo fininshing to panter wall, seat wall and panter kerb | | Sat 1/6/24 | Sat 11/5/24 | 576 | | | | | | | | 1/12 | | | | | | | |
| 591 | Procurement of safety mat for play area | | s Sun 12/5/24 | Mon 10/6/24 | 630FF,588 | | | | | | | | 1/12 | | | | | | | |
| 592 593 | Inspection/certification of for play equipment | | s Tue 11/6/24 | Wed 10/7/24 | 592 | | | | | | | | | | | | | | | |
| 594 | Soft landscaping works | | Sat 27/4/24 | Mon 10/6/24 | 592FF,583 | | | | | | | | | | | | | | | |
| 595 | Wing C | | Thu 24/8/23 | Wed 10/7/24 | 00211,000 | | | | | | | | | | | | | | | |
| 596 | Awaiting planter seat design from PM due to interfacing parties | - | Thu 5/10/23 | Sun 15/10/23 | | | | | | | | | | | | | | | | |
| 597 | MoE | | Fri 15/9/23 | Fri 20/10/23 | | | | | | | | | | | | | | | | |
| 598 | TDPM Dry Season | | Wed 1/11/23 | Wed 1/11/23 | | | 1/11 | | | | | | | | | | | | | |
| 599 | Planter | | Wed 1/11/23 | Mon 29/1/24 | 598SS,596,597 | 1/11 | | | | | | | | | | | | | | |
| 600 | Seat | | s Tue 30/1/24 | Fri 29/3/24 | 599,596 | | | | | | | | | | | | | | | |
| 601 | Soil replacement | 45 days | 5 Tue 30/1/24 | Thu 14/3/24 | 599 | | | | | | | | | | | | | | | |
| 602 | Underground cable ducts and draw pits | 60 days | s Fri 1/12/23 | Mon 29/1/24 | 599SS+30 days | [| | | | | | | 1/12 | | | | | | | |
| 603 | Lighting system | 60 days | s Sun 14/4/24 | Wed 12/6/24 | 623SS,602 | | | | | | | | | | | | | | | |
| 604 | Underground water supply for irrigation | 60 days | 5 Thu 24/8/23 | Sun 22/10/23 | 564 | | | | | | | | | | | | | | | _ |
| 605 | Irrigation system | 45 days | s Sun 14/4/24 | Tue 28/5/24 | 604,603SS | | | | | | | | | | | | | | | |
| 606 | U channel | 45 days | s Fri 15/3/24 | Sun 28/4/24 | 600FS-15 days,601F | | | | | | | | | | | | | | | |
| 607 | Edge and pavement | 50 days | s Sat 30/3/24 | Sat 18/5/24 | 606SS+15 days | | | | | | | | | | | | | | | |
| 608 | Terrazzo fininshing to panter wall, seat wall and panter kerb | 45 days | Mon 13/5/24 | Wed 26/6/24 | 600 | | | | | | | | | | | | | | | |
| 609 | Procurement of safety mat for play area | - | s Fri 1/12/23 | Sat 11/5/24 | |] | | | | | | | 1/12 | | | | | | | |
| 610 | Installation of safety mat for play area | 30 days | s Sun 12/5/24 | Mon 10/6/24 | 609 | | | | | | | | | | | | | | | |
| 611 | Inspection/certification of for play equipment | | Tue 11/6/24 | Wed 10/7/24 | 610 | | | | | | | | | | | | | | | |
| 612 | Soft landscaping works | - | s Sat 1/6/24 | Wed 10/7/24 | 650SS | | | | | | | | | | | | | | | |
| 613 | Wing B | | 5 Thu 24/8/23 | Wed 10/7/24 | | | | | | | | | | | | | | | | ++ |
| 614 | Planter | | s Fri 1/12/23 | Wed 28/2/24 | | | | | | | | | 1/12 | | | | | | | |
| 615 | Ramp | , | s Thu 29/2/24 | Sat 13/4/24 | 614 | | | | | | | | | | | | | | | |
| 616 | Shelter (4 nos) | - | s Fri 1/12/23 | Sun 19/5/24 | | | | | | | | | | | | | | | | ++ |
| 617 | Submission of design | | s Fri 1/12/23 | Mon 29/1/24 | | | | | | | | | 1/12 | | | | | | | |
| 618 | Approval of design | 21 days | s Tue 30/1/24 | Mon 19/2/24 | 617 | | | | | | | | | | | | | | | |



| | | | | | Development of A | | | | September 202 | | andsc | ape works | ; | | | | |
|--------|---|----------|-----------------------------------|---------------------------|-------------------|--------|-----------|-----|------------------------|-------|-------|-----------|-------------|------------|----------|-------|---|
| ID Tas | k Name | Duration | Start | Finish | Predecessors | 29/10 | 5/11 | | ber 2023 /11 19/1 | 1 26/ | 11 | 3/12 | Dec 10/* | cember 202 | 3 /12 | 24/12 | |
| 619 | Construction | 90 day: | Tue 20/2/24 | Sun 19/5/24 | 618 | | 0,11 | | | | 1 | 0,12 | | | | | 1 |
| 620 | Seat | 60 day | s Thu 29/2/24 | Sun 28/4/24 | 614 | | | | | | | | | | | | |
| 621 | Soil replacement | 45 day | s Thu 29/2/24 | Sat 13/4/24 | 614 | | | | | | | | | | | | |
| 622 | Underground cable ducts and draw pits | 60 day | s Sun 31/12/23 | Wed 28/2/24 | 614SS+30 days,560 | | | | | | 4 | | | | | 31/12 | |
| 623 | Lighting system | 60 day | s Sun 14/4/24 | Wed 12/6/24 | 644SS,622 | | | | | | | | | | | | |
| 624 | Underground water supply for irrigation | 60 day | 5 Thu 24/8/23 | Sun 22/10/23 | 564 | | | | | | | | | | | | |
| 625 | Irrigation system | 45 day | s Sun 14/4/24 | Tue 28/5/24 | 624,623SS | | | | | | | | | | | | |
| 626 | U channel | 45 day | s Sun 14/4/24 | Tue 28/5/24 | 615,621 | | | | | | | | | | | | |
| 627 | Edge and pavement | 50 day | Mon 29/4/24 | Mon 17/6/24 | 626SS+15 days | | | | | | | | | | | | |
| 628 | Terrazzo fininshing to panter wall, seat wall and panter kerb | 45 day | Mon 29/4/24 | Wed 12/6/24 | 620 | | | | | | | | | | | | |
| 629 | Procurement of safety mat for play area | 163 days | Fri 1/12/23 | Sat 11/5/24 | | | | | | 1/1 | 2 | | | | | | |
| 630 | Installation of safety mat for play area | 30 day | s Sun 12/5/24 | Mon 10/6/24 | 629 | | | | | | | | | | | | |
| 631 | Inspection/certification of for play equipment | 30 day | Tue 11/6/24 | Wed 10/7/24 | 630 | | | | | | | | | | | | |
| 632 | Soft landscaping works | 40 day | s Sat 1/6/24 | Wed 10/7/24 | 650SS | | | | | | | | | | | | |
| 633 | Wing D | 686 days | Tue 30/8/22 | Mon 15/7/24 | | | | | | | _ | | | | | | _ |
| 634 | Planter | 90 day | Mon 15/1/24 | Sat 13/4/24 | | | | | | | | | | | | | |
| 635 | Staircase | 90 day | Mon 15/1/24 | Sat 13/4/24 | 634SS | - | | | | | | | | | | | |
| 636 | Ramp | 45 day | s Sun 14/4/24 | Tue 28/5/24 | 635 | | | | | | | | | | | | |
| 637 | Shelter (1 nos) | 141 days | Fri 1/12/23 | Fri 19/4/24 | | | | | | | | | | | | | _ |
| 638 | Submission of design | | Fri 1/12/23 | Mon 29/1/24 | | | | | | 1/1 | 2 | | | | | | |
| 639 | Approval of design | | s Tue 30/1/24 | Mon 19/2/24 | 638 | | | | | | _ | | | | | | |
| 640 | Construction | | Tue 20/2/24 | Fri 19/4/24 | 639 | | | | | | | | | | | | |
| 641 | Seat | | Sun 14/4/24 | Wed 12/6/24 | 634 | | | | | | | | | | | | |
| 642 | Soil replacement | | Sun 14/4/24 | Tue 28/5/24 | 634 | 9 | | | | | | | | | | | |
| 643 | Underground cable ducts and draw pits | | Wed 14/2/24 | Sat 13/4/24 | 634SS+30 days,560 | | | | | | | | | | | | |
| 644 | Lighting system | | Sun 14/4/24 | Wed 12/6/24 | 643 | | | | | | | | | | | | |
| 645 | Underground water supply for irrigation | - | 5 Thu 24/8/23 | Sun 22/10/23 | 564 | | | | | | | | | | | | |
| 646 | Irrigation system | | s Sun 14/4/24 | Tue 28/5/24 | 645,644SS | | | | | | | | | | | | |
| 647 | U channel | | Tue 14/5/24 | Thu 27/6/24 | 642FS-15 days,636 | | | | | | | | | | | | |
| 648 | Edge and pavement | - | Wed 29/5/24 | Mon 15/7/24 | 647SS+15 days | | | | | | | | | | | | |
| | Terrazzo fininshing to panter wall, seat wall and panter kerb | | Mon 27/5/24 | Wed 10/7/24 | 641FS-25 days | | | | | | | | | | | | |
| 649 | | | | | · · · | | | | | | | | | | | | |
| 650 | Soft landscaping works | | Sat 1/6/24 | Wed 10/7/24 | 634 | | | | | | | | | | | | |
| 651 | Retainning Wall Issuance of site sketch for retaining wall (Letter M45/420/400708) | - | Tue 30/8/22 Tue 30/8/22 | Tue 2/4/24 Tue 30/8/22 | | | | | | | | | | | | | 7 |
| 652 | • • • • • | | | | | | | | | | | | | | | | |
| 653 | Stage 1 (RWA 21, CH15 to CH51.5) | - | Mon 10/10/22 | | 050 | | | | | | | | | | | | 7 |
| 654 | Excavation | | Mon 10/10/22 | | 652 | | | | | | | | | | | | |
| 655 | Blinding layer | | Tue 1/11/22 | Fri 30/12/22 | 654SS+22 days | | | | | | | | | | | | |
| 656 | Base slab | - | Fri 11/11/22 | Mon 9/1/23 | 655SS+10 days | | | | | | | | | | | | |
| 657 | Wall stem | | s Fri 25/11/22 | Mon 23/1/23 | 656SS+14 days | | | | | | | | | | | | |
| 658 | Backfilling | - | Tue 24/1/23 | Sun 19/3/23 | 657 | | | | | | | | | | | | |
| 659 | Finishing works for retaining wall | | Mon 4/3/24 | Tue 2/4/24 | 658 | | | | | | | | | | | | |
| 660 | Stage 2 (Remaining portion) | - | Mon 20/3/23 | Sat 10/2/24 | | | | | | | | | | | | | |
| 661 | Revision of wall details by PM due to interface | | Mon 20/3/23 | Wed 16/8/23 | 658 | | | | | | | | | | | | |
| 662 | Tendering | | s Thu 17/8/23 | Fri 15/9/23 | 661 | | | | | | | | | | | | |
| 663 | Final revised design received on 29 Sept 2023 | - | Fri 29/9/23 | Fri 29/9/23 | 662 | | | | | | | | | | | | |
| 664 | Checking of revised drawings and setting out works | - | s Fri 29/9/23 | Sat 28/10/23 | 663 | 28/10 | | | | | | | | | | | |
| 665 | Excavation | 21 day | s Sun 29/10/23 | Sat 18/11/23 | 664 | | | | 18/11 | | | | | | | | |
| 666 | Blinding layer | 21 day | s Sun 5/11/23 | Sat 25/11/23 | 665SS+7 days | 5/1 | | | | 25/11 | | | | | | | |
| 667 | Base slab (3 bays) | - | s Sun 12/11/23 | Sat 2/12/23 | 666SS+7 days | | 12 | /11 | | | | 2/12 | | | | | |
| 668 | Wall stem (3 bays) | 30 day | s Sun 3/12/23 | Mon 1/1/24 | 667 | | | | | | 3/12 | | | | | | |
| 669 | Backfilling (10 layer) | 40 day | s Tue 2/1/24 | Sat 10/2/24 | 668 | | | | | | | | | | | | 2 |
| 670 | RC staicase at retaining wall | 21 day | s Sun 11/2/24 | Sat 2/3/24 | 669 | | | | | | | | | | | | |
| 671 | Fencing | 30 day | s Sun 3/3/24 | Mon 1/4/24 | 670 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | _ |
| | Task Critical Task | м | lestone 🔷 | | ummary | Progre | | | | | | | | | | | _ |



| ID | Task Name | Duration | Start | Finish | Predecessors | | | Programn | ne: Septen wember 20 | | | | | Dec | ember 2 | 2023 | | |
|------------|--|---------------------------------------|----------------------------|------------------------------|----------------|------|--------|----------|-------------------------|-------|------|-------|------|------|---------|-------|----|------|
| 672 | Section of Works 2A - Establishment Works for all Landscape Softworks in Section 2 of the Works | 365 days | Tue 16/7/24 | Tue 15/7/25 | | 29/1 | 0 5/ | /11 | 12/11 | 19/11 | 26/1 | 1 3 | 8/12 | 10/1 | 2 | 17/12 | 24 | 4/12 |
| 673 | Commencement of Establishment Work for Section 2 | 0 davs | Tue 16/7/24 | Tue 16/7/24 | 633FF+1 day | | | | | | | | | | | | | |
| 674 | Establishment Work Duration for Section 2 | | Tue 16/7/24 | Tue 15/7/25 | 673SS-1 day | | | | | | | | | | | | | |
| 675 | Completion of Works in Section 2 | | Tue 15/7/25 | Tue 15/7/25 | 674 | | | | | | | | | | | | | |
| 676 | Section of Works 3 - Portions 1b, 3, 4, 5 | | Fri 30/7/21 | Thu 31/8/23 | | | | | | | | | | | | | | |
| 708 | Section of Works 3A - Establishment Works for all Landscape Softworks | • | Fri 1/9/23 | Fri 30/8/24 | | | | | | | | | | | | | | |
| | in Section 3 of the Works | | | | | | | | | | | | | | | | | |
| 712 | Section of Works 4 - Portions 6, 12 | | Fri 30/7/21 | Sat 31/8/24 | | | | | | | | | | | | | | |
| 713 | Portion 6 | | Sat 29/1/22 | Sat 31/8/24 | 7400 | | | | | | | | | | | | | |
| 714 | Provision of site access [183 days after starting date as per Contract] | | Sat 29/1/22 | Sat 29/1/22 | 71SS | | | | | | | | | | | | | |
| 715 | Deferred possession | | Sat 29/1/22 | Tue 19/4/22 | 714 | | | | | | | | | | | | | |
| 716 | Mobilization& Site Clearance | | Wed 20/4/22 | Tue 3/5/22 | 715 716 | | | | | | | | | | | | | |
| 717 | Issuance of site sketch for retaining wall (Letter C10/500/400739) | | Wed 14/9/22 | Wed 14/9/22 | | | | | | | | | | | | | | |
| 718 | Drainage works under PMQP 004 | | Fri 14/10/22 | Fri 14/10/22 Thu 27/10/22 | 716 | | | | | | | | | | | | | |
| 719 | Time Risk Allowance | | Fri 14/10/22 | | 718 | | | | | | | | | | | | | |
| 720 | Drainage pipe and manhole below the base slab of retaining wall | - | Mon 19/12/22 | | 740 | | | | | | | | | | | | | |
| 721 | Excavation | | Mon 19/12/22 | | 718 | | | | | | | | | | | | | |
| 722 | Pipe laying and manhole | , | Wed 1/3/23 | Thu 17/8/23 | 721FS-153 days | | | | | | | | | | | | | |
| 723 | CCTV inspection, testing and commissioning | , | Wed 16/8/23 | Fri 18/8/23 | 722FF+1 day | | | | | | | | | | | | | |
| 724 | Backfilling | | Mon 1/5/23 | Mon 21/8/23 | 723FF+3 days | | | | | | | | | | | | | |
| 725 | Retaining wall RWA20 | | Tue 2/5/23 | Sun 31/12/23 | 70455 | | | | | | | | | | | | | |
| 726 | Excavation | | Tue 2/5/23 | Mon 21/8/23 | 724FF | | | | | | | | | | | | | |
| 727 | Blinding layer | | Tue 9/5/23 | Sat 26/8/23 | 726SS+7 days | | 4/40 | | | | | | | | | | | |
| 728 | Base slab (21 bays) | | Tue 16/5/23 | Tue 31/10/23 | 727SS+7 days | 3 | 1/10 | | 4 5 14 | | | | | | | | | |
| 729 | Wall stem (21 bays) | | Mon 3/7/23 | Wed 15/11/23 | 728SS+10 days | | | | 15/1 | 11 | | | | | | | | |
| 730 | Backfilling (15 layers) | | Sun 8/10/23 | Sun 31/12/23 | | | | | | | | | | | | | | |
| 731 | Drainage pipe and manhole above the base slab of retaining wall | | Mon 1/1/24 | Sat 27/1/24 | 700 | | | | | | | | | | | | | 4 /4 |
| 732 | Pipe laying and manhole | | Mon 1/1/24 | Sun 14/1/24 Wed 17/1/24 | 730 | | | | | | | | | | | | | 1/1 |
| 733 734 | CCTV inspection, testing and commissioning Backfilling | | Mon 15/1/24 | | 732 | | | | | | | | | | | | | |
| 734 735 | Retaining wall RWA19 | | Thu 18/1/24 Sun 28/1/24 | Sat 27/1/24 Fri 12/7/24 | 733 | | | | | | | | | | | | | |
| 736 | • | - | Sun 28/1/24 | Tue 16/4/24 | 734 | | | | | | | | | | | | | |
| 737 | Blinding layer Base slab | | Fri 2/2/24 | Sun 21/4/24 | 736SS+5 days | | | | | | | | | | | | | |
| 738 | Wall stem | , | Sun 11/2/24 | Fri 10/5/24 | 737SS+9 days | | | | | | | | | | | | | |
| 739 | Backfilling | , | Sun 14/4/24 | Fri 12/7/24 | 738FS-27 days | | | | | | | | | | | | | |
| 740 | Railing | | Sat 13/7/24 | Mon 26/8/24 | 739 | | | | | | | | | | | | | |
| 740 | Additional Sewage System (PMI 086) | | Sat 13/7/24 | Mon 26/8/24 | 739 | | | | | | | | | | | | | |
| 742 | U channel & catchpit, edging and pavement | | Fri 28/6/24 | Sat 31/8/24 | 739FS-15 days | | | | | | | | | | | | | |
| 743 | Soft landscaping works | | Thu 18/7/24 | Sat 31/8/24 | 742FF | | | | | | | | | | | | | |
| 744 | Irrigation system | | Tue 16/5/23 | Tue 28/5/24 | | | | | | | | | | | | | | |
| 745 | Contractor's design | | Tue 16/5/23 | Wed 2/8/23 | | | | | | | | | | | | | | |
| 746 | Approval of WWO542 | | Thu 3/8/23 | Fri 1/9/23 | 745 | | | | | | | | | | | | | |
| 747 | Approval of Form WWO 046 | - | Fri 10/11/23 | Thu 30/11/23 | 746 | | 10/ | 11 | | | | 30/11 | | | | | | |
| 748 | Underground water supply for irrigation | | Fri 1/12/23 | Mon 29/1/24 | 747 | | | | | | 1/12 | | | | | | | |
| 749 | Irrigation system | | Sun 14/4/24 | Tue 28/5/24 | 739SS,748 | | | | | | | | | | | | | |
| 750 | Lighting system | | Fri 30/9/22 | Mon 19/8/24 | | | | | | | | | | | | | | |
| 751 | Contractor's design | | Fri 30/9/22 | Sun 13/11/22 | | | | | | | | | | | | | | |
| 752 | Application for electricity power supply | | Mon 14/11/22 | | 751 | 3 | 1/10 | | | | | | | | | | | |
| 753 | Lighting design | | Mon 14/11/22 | | 751 | | | | | | | | | | | | | |
| 754 | LCSD's approval of lighting system | | Sun 1/10/23 | Tue 31/10/23 | 753 | | 1/10 | | | | | | | | | | | |
| 755 | Installation including ducting and draw pit | · · · · · · · · · · · · · · · · · · · | Sun 14/4/24 | Wed 12/6/24 | 749SS,754 | | - | | | | | | | | | | | |
| 756 | Installation of lighting | | Thu 13/6/24 | Sat 20/7/24 | 755 | | | | | | | | | | | | | |
| 757 | Energization | | Sun 21/7/24 | Sun 4/8/24 | 756 | | | | | | | | | | | | | |
| | · • • | | | | | | | | | | | | | | | | | |
| | Task Critical Task | Mi | lestone 🔷 | | Summary | Dre | ogress | | - | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |



| | nternational Water & Electric Corp. | | | I | Development of A | nders | | ad Quarr | | | | | ning an | d Lan | dscape | Works | S | | | | | |
|------|--|-------------|--------------|--------------|-------------------|-------|---------|----------|---|-----------------|---------|-------|---------|-------|--------|-------|---|---------------|-------|-------|-----------|-----|
| ID . | Task Name | Duration | Start | Finish | Predecessors | | 9/10 | 5/1 | N | Novembe 12/1 | er 2023 | | | 26/11 | | 8/12 | | Dece 10/12 | ember | 2023 | 24/12 | |
| 758 | Testing and Commissioning of lighting | 15 days I | Mon 5/8/24 | Mon 19/8/24 | 757 | 2 | 5/10 | 5/1 | | 12/1 | | 13/11 | 2 | 20/11 | | /12 | | 10/12 | · | 17/12 | 24/12 | · |
| 759 | Portion 12 | 1129 days | Fri 30/7/21 | Sat 31/8/24 | | | | | | | | | | | | | | | | | | |
| 760 | Provision of site access [on starting date as per Contract] | 7 days I | Fri 30/7/21 | Thu 5/8/21 | 76SS | | | | | | | | | | | | | | | | | |
| 761 | Mobilization& Site Clearance | 14 days l | Fri 6/8/21 | Thu 19/8/21 | 760 | | | | | | | | | | | | | | | | | |
| 762 | Preparation& submission of MS, Temp works, associated plans & docs | 52 days l | Fri 20/8/21 | Sun 10/10/21 | 761 | | | | | | | | | | | | | | | | | |
| 763 | Engineer's AIP of MS, Temp works, plans& associated docs | 22 days I | Mon 11/10/21 | Mon 1/11/21 | 762 | 1 | | | | | | | | | | | | | | | | |
| 764 | Additional GI at Portion 12 (PMI 005) | 15 days \ | Wed 1/6/22 | Wed 15/6/22 | | 1 | | | | | | | | | | | | | | | | |
| 765 | Drainage pipe and manhole | 379 days 1 | Tue 2/11/21 | Tue 15/11/22 | | | | | | | | | | | | | | | | | | |
| 766 | Excavation | 364 days | Tue 2/11/21 | Mon 31/10/22 | 763 | | | | | | | | | | | | | | | | | |
| 767 | Pipe laying and manhole consstruction including backfilling | 245 days \ | Wed 16/3/22 | Tue 15/11/22 | 766FS-230 days | | | | | | | | | | | | | | | | | |
| 768 | Draft wall construction | | Wed 16/11/22 | Tue 28/2/23 | 767 | | | | | | | | | | | | | | | | | |
| 769 | Awaiting for revision of design by PM due to interface | 97 days \ | Wed 1/3/23 | Mon 5/6/23 | 768 | | | | | | | | | | | | | | | | | |
| 770 | Staircase | 388 days | Tue 6/6/23 | Thu 27/6/24 | | | | | | | | | | _ | | | | | | | | _ |
| 771 | Allowance for site access and spoil pile sorting | 284 days | | Fri 15/3/24 | 769 | | | | | | | | | | | | | | | | | |
| 772 | Footing | 290 days | Tue 15/8/23 | Thu 30/5/24 | 771SS+70 days | | | | | | | | | | | | | | | | | |
| 773 | Vertical wall | - | Tue 15/8/23 | Fri 14/6/24 | 771SS+70 days | | | | | | | | | | | | | | | | | |
| 774 | Wing wall | | Mon 25/9/23 | Thu 27/6/24 | 771SS+111 days | | | | | | | | | | | | | | | | | |
| 775 | Steps | 92 days l | Fri 15/12/23 | Fri 15/3/24 | 771SS+192 days | | | | | | | | | | | | 1 | 5/12 | | | | |
| 776 | Seat and railing | 169 days | Sat 16/3/24 | Sat 31/8/24 | 771 | | | | | | | | | | | | | | | | | |
| 777 | Dwaft wall (resumption) | 120 days \$ | Sat 16/3/24 | Sat 13/7/24 | 775 | | | | | | | | | | | | | | | | | |
| 778 | U channel & catchpit, edging and pavement | 169 days \$ | Sat 16/3/24 | Sat 31/8/24 | 771 | 1 | | | | | | | | | | | | | | | | |
| 779 | Soft landscaping | 60 days \ | Wed 3/7/24 | Sat 31/8/24 | 778FF | | | | | | | | | | | | | | | | | |
| 780 | Additional temporary toilet for LCSD | 61 days I | Mon 1/1/24 | Fri 1/3/24 | | | | | | | | | | | | | | | | | | 1/1 |
| 781 | Sunken Plaza | 76 days \ | Wed 1/11/23 | Mon 15/1/24 | | 1/11 | | | | | | | | | | | | | | | | |
| 782 | Irrigation system | 379 days 1 | Tue 16/5/23 | Tue 28/5/24 | | | | | | | | | | | | | | | | | | |
| 783 | Contractor's design | 79 days | Tue 16/5/23 | Wed 2/8/23 | | | | | | | | | | | | | | | | | | |
| 784 | Approval of WWO542 | 30 days | Thu 3/8/23 | Fri 1/9/23 | 745 | | | | | | | | | | | | | | | | | |
| 785 | Approval of Form WWO 046 | 21 days I | Fri 10/11/23 | Thu 30/11/23 | 784 | | | 10/11 | | | | | | | 30/11 | | | | | | | |
| 786 | Underground water supply for irrigation | 60 days l | Fri 1/12/23 | Mon 29/1/24 | 785 | | | | | | | | 1 | /12 | - | | | | | | | |
| 787 | Irrigation system | 45 days | Sun 14/4/24 | Tue 28/5/24 | 739SS | | | | | | | | | | | | | | | | | |
| 788 | Lighting system | 1117 days I | Fri 30/7/21 | Mon 19/8/24 | | | | | | | | | | _ | | | | | | | | _ |
| 789 | Contractor's design | 45 days l | Fri 30/9/22 | Sun 13/11/22 | 751SS | 1 | | | | | | | | | | | | | | | | |
| 790 | Application for electricity power supply | 352 days l | Mon 14/11/22 | Tue 31/10/23 | 789 | | 31/1 | 0 | | | | | | | | | | | | | | |
| 791 | Lighting design | 300 days I | Mon 14/11/22 | Sat 9/9/23 | 789 | | | | | | | | | | | | | | | | | |
| 792 | LCSD's approval of lighting of ighting system | 31 days | Sun 1/10/23 | Tue 31/10/23 | 791 | | 31/1 | 0 | | | | | | | | | | | | | | |
| 793 | Installation including ducting and draw pit | 60 days | Sun 14/4/24 | Wed 12/6/24 | 787SS,792 | | | | | | | | | | | | | | | | | |
| 794 | Installation of lighting | 38 days | Thu 13/6/24 | Sat 20/7/24 | 793 | | | | | | | | | | | | | | | | | |
| 795 | Energization | 15 days | Sun 21/7/24 | Sun 4/8/24 | 794 | | | | | | | | | | | | | | | | | |
| 796 | Testing and Commissioning of lighting | 15 days I | Mon 5/8/24 | Mon 19/8/24 | 795 | | | | | | | | | | | | | | | | | |
| 797 | Watermain | 74 days l | Fri 30/7/21 | Mon 11/10/21 | | | | | | | | | | | | | | | | | | |
| 798 | Pipe laying | 30 days I | Fri 30/7/21 | Sat 28/8/21 | | | | | | | | | | | | | | | | | | |
| 799 | Water connection | 30 days | Sun 29/8/21 | Mon 27/9/21 | 798 | | | | | | | | | | | | | | | | | |
| 800 | Testing and commissioning | 14 days | Tue 28/9/21 | Mon 11/10/21 | 799 | | | | | | | | | | | | | | | | | |
| 801 | Section of Works 4A - Establishment Works for all Landscape Softworks in Section 4 of the Works | 365 days | Sun 1/9/24 | Sun 31/8/25 | | | | | | | | | | | | | | | | | | |
| 802 | Commencement of Establishment Work for Section 4 | 0 days | Sun 1/9/24 | Sun 1/9/24 | 742FS+1 day,778FS | | | | | | | | | | | | | | | | | |
| 803 | Establishment Work Duration for Section 4 | | Sun 1/9/24 | Sun 31/8/25 | 802SS-1 day | - | | | | | | | | | | | | | | | | |
| 804 | Completion of Works in Section 4 | | Sun 31/8/25 | Sun 31/8/25 | 803 | | | | | | | | | | | | | | | | | |
| 805 | Section of Works 5A - Portions 9, 10 | 1098 days I | | Wed 31/7/24 | | | | | | | | | | | | | | | | | | |
| 806 | Portion 9 [Sitting Out Area C & R2-1 Footpath] | - | Wed 29/9/21 | Wed 31/7/24 | | | | | | | | | | | | | | | | | | |
| 807 | Provision of site access [61 days after starting date as per Contract] | - | Wed 29/9/21 | Wed 6/10/21 | 88SS | | | | | | | | | | | | | | | | | |
| 808 | Mobilization& Site Clearance | | Thu 7/10/21 | Thu 21/10/21 | 807 | | | | | | | | | | | | | | | | | |
| 809 | Preparation& submission of MS, Temp works, associated plans & docs | | Tue 1/2/22 | Sat 16/4/22 | 808 | - | | | | | | | | | | | | | | | | |
| 810 | Engineer AIP of MS, Temp works, plans& associated docs | - | Sun 17/4/22 | Wed 15/6/22 | 809 | | | | | | | | | | | | | | | | | |
| J.J | | | | | | | | | | | | | | | | | | | | | | |
| | Task Critical Task | | estone 🔷 | 9 | Summary | _ | Progres | s | | | | | | | | | | | | | | |

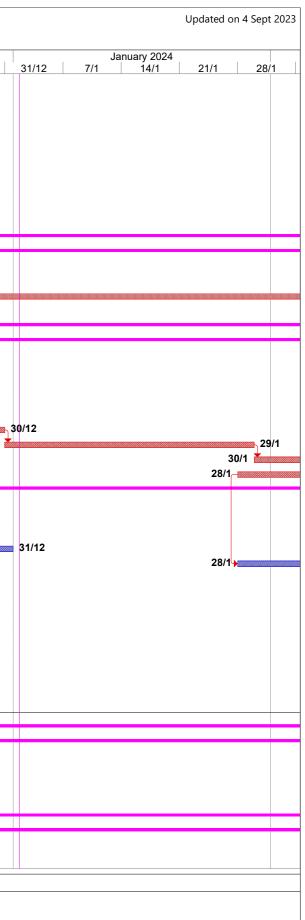
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| _nina inte | rnational Water & Electric Corp. | | [| Development of A | Ander | | | tract No. ED/2020/02 ite - Infrastructure, Gre amme: September 202 | | ndscape Works | | | | | | Updated of | n 4 Sept 202 |
|------------|---|---|---------------|-------------------|-------|----------|-------|--|---------|---------------|-----------------------------|---------|-------|-------------|-------------------|------------|--------------------|
| ID Tas | k Name | Duration Start | Finish | Predecessors | | 29/10 | 5/11 | November 2023 | 1 26/11 | 3/12 | December 2023 10/12 17/1 | 2 24/12 | 31/12 | Janu 7/1 | uary 2024 14/1 | 21/1 | 28/1 |
| 811 | Construction of U channel and catchpit | 256 days Thu 16/6/22 | Sun 26/2/23 | 810,813FS-65 days | | | 0/11 | 12,111 10,1 | 20/1 | 0/12 | 10/12 11/1 | 21/12 | | .,,, | | 2.,, . | 20/1 |
| 812 | Time Risk Allowance | 15 days Mon 27/2/23 | Mon 13/3/23 | 811 | | | | | | | | | | | | | |
| 813 | Modification of existing surface drain at slope toe (PMI 032) | 0 days Fri 19/8/22 | Fri 19/8/22 | | | | | | | | | | | | | | |
| 814 | Modification of existing surface drain at slope toe (PMI 050) | 0 days Wed 28/9/2 | 2 Wed 28/9/22 | 813 | - | | | | | | | | | | | | |
| 815 | Handover site to other Contractor | 232 days Tue 14/3/23 | Tue 31/10/23 | 812 | | 31/1 | 0 | | | | | | | | | | |
| 816 | Resumption of modification of existing drain at slope toe (late return from F | 124 days Wed 1/11/2 | Sun 3/3/24 | 815 | 1/11 | _ | | | | | | | | | | | |
| 817 | Backfilling and compaction of road materials | 30 days Mon 4/3/24 | Tue 2/4/24 | 816 | - | | | | | | | | | | | | |
| 818 | Installation of E1 kerbs | 30 days Wed 3/4/24 | Thu 2/5/24 | 817 | - | | | | | | | | | | | | |
| 819 | Construction of porous pavement footpath | 60 days Fri 3/5/24 | Mon 1/7/24 | 818 | - | | | | | | | | | | | | |
| 820 | Installation of street furniture, traffic signs, bollards and road markings | 30 days Tue 2/7/24 | Wed 31/7/24 | 819 | - | | | | | | | | | | | | |
| 821 | Landscaping works | 60 days Sun 2/6/24 | Wed 31/7/24 | 818FS+10 days,820 |)F | | | | | | | | | | | | |
| 822 | Irrigation system | 352 days Tue 16/5/23 | | | | | | | | | | | | | | | |
| 823 | Contractor's design | 79 days Tue 16/5/23 | | | - | | | | | | | | | | | | |
| 824 | Approval of WWO542 | 30 days Thu 3/8/23 | Fri 1/9/23 | 823 | - | | | | | | | | | | | | |
| 825 | Approval of Form WWO 046 | 21 days Fri 10/11/23 | | 824 | - | | 10/11 | | | 30/11 | | | | | | | |
| 826 | Underground water supply for irrigation | 14 days Fri 1/12/23 | Thu 14/12/23 | 825 | - | | | | 1/12 | | -14/12 | | | | | | |
| 827 | Irrigation system | 14 days Thu 18/4/24 | | 834SS,826 | - | | | | 1/12 | | | | | | | | |
| 828 | Lighting system | 628 days Fri 30/9/22 | Tue 18/6/24 | 00400,020 | | | | | | | | | | | | | |
| 829 | Contractor's design | 45 days Fri 30/9/22 | Sun 13/11/22 | | - | | | | | | | | | | | | |
| 830 | Application for electricity power supply | 352 days Mon 14/11/2 | | 829 | - | 31/1 | 0 | | | | | | | | | | |
| 831 | Lighting design | 300 days Mon 14/11/2 | | 023 | - | J 1/ 1 | 0 | | | | | | | | | | |
| 832 | LCSD's approval of lighting of ighting system | 31 days Sun 1/10/23 | | 831 | - | 31/1 | 0 | | | | | | | | | | |
| | | 45 days Mon 4/3/24 | Wed 17/4/24 | 817SS,832 | - | <u> </u> | 0 | | | | | | | | | | |
| 833 | Installation including ducting and draw pit Installation of lighting | 45 days Mon 4/3/24 45 days Thu 18/4/24 | | 833 | - | | | | | | | | | | | | |
| 834 | | | | 834 | - | | | | | | | | | | | | |
| 835 | Energization | 7 days Sun 2/6/24 | Sat 8/6/24 | | - | | | | | | | | | | | | |
| 836 | Testing and Commissioning of lighting | 10 days Sun 9/6/24 | Tue 18/6/24 | 835,827SS | _ | | | | | | | | | | | | |
| 837 | Portion 10 | 1098 days Fri 30/7/21 | Wed 31/7/24 | 0000 | _ | | | | | | | | | | | | |
| 838 | Provision of site access [on starting date as per Contract] | 7 days Fri 30/7/21 | Thu 5/8/21 | 93SS | - | | | | | | | | | | | | |
| 839 | Slope inspection & assessment work | 50 days Fri 6/8/21 | Fri 24/9/21 | 838 | _ | | | | | | | | | | | | |
| 840 | Mobilization, access arrangements, logistic plan & Site Clearance | 52 days Sat 25/9/21 | Mon 15/11/21 | 839 | _ | | | | | | | | | | | | |
| 841 | Preparation & submission of MS, Temp works, associated plans & docs | 37 days Tue 16/11/2 | | 840 | | | | | | | | | | | | | |
| 842 | Time Risk Allowance | 16 days Thu 23/12/2 | | 841 | _ | | | | | | | | | | | | |
| 843 | Main access blocked by C1at hiking trail | 0 days Mon 3/7/23 | Mon 3/7/23 | | | | | | | | | | | | | | |
| 844 | Engineer's AIP of MS, Temp.works, plans & associated docs | 21 days Sat 8/1/22 | Fri 28/1/22 | 842 | | | | | | | | | | | | | |
| 845 | Demolition and removal of disused water pipe and sprinkler system | 160 days Sat 29/1/22 | | 844 | | | | | | | | | | | | | |
| 846 | Reinstatement of joint sealant at drainage channel | 563 days Fri 16/9/22 | Wed 31/7/24 | 849FF | | | | | | | | | | | | | |
| 847 | Installation of display sign for slope registration | 60 days Sun 2/6/24 | Wed 31/7/24 | 849FF | | | | | | | | | | | | | |
| 848 | Slope Works at Feature No. 11NE-D/C998 (409m) | 30 days Tue 2/7/24 | Wed 31/7/24 | | | | | | | | | | | | | | |
| 849 | Construction of concrete maintenance staircase with hand railings | 30 days Tue 2/7/24 | Wed 31/7/24 | 860FS-16 days | | | | | | | | | | | | | |
| 850 | Slope Works at Feature No. 11NE-D/FR657 (63m) | 100 days Thu 25/1/24 | | | | | | | | | | | | | | - | |
| 851 | Filling of void with cement soil | 8 days Fri 26/4/24 | Fri 3/5/24 | 852FF | | | | | | | | | | | | | |
| 852 | Construction of concrete berm | 45 days Wed 20/3/2 | | 870 | | | | | | | | | | | | | |
| 853 | Installation of hand railings | 15 days Fri 19/4/24 | Fri 3/5/24 | 852FF | | | | | | | | | | | | | |
| 854 | Repainting of handrailing | 7 days Thu 25/1/24 | | 852FF | | | | | | | | | | | | 25/1 | <mark>• 3</mark> 1 |
| 855 | Slope Works at Feature No. 11NE-D/C1003 (265m) | 30 days Sat 4/5/24 | Sun 2/6/24 | | | | | | | | | | | | | | |
| 856 | Construction of concrete berm | 30 days Sat 4/5/24 | Sun 2/6/24 | 853 | | | | | | | | | | | | | |
| 857 | Installation of hand railings | 8 days Sun 26/5/24 | Sun 2/6/24 | 856FF | | | | | | | | | | | | | |
| 858 | Slope Works at Feature No. 11NE-D/C1006 (60m) | 120 days Wed 20/3/2 | 4 Wed 17/7/24 | | | | | | | | | | | | | | |
| 859 | Construction of concrete berm (~30m) | 45 days Mon 3/6/24 | Wed 17/7/24 | 856 | | | | | | | | | | | | | |
| 860 | Installation of hand railings (~30m) | 7 days Thu 11/7/24 | Wed 17/7/24 | 859FF | 1 | | | | | | | | | | | | |
| 861 | Repainting of handrailing | 7 days Wed 20/3/2 | Wed 27/3/24 | 859FF | 1 | | | | | | | | | | | | |
| 862 | Slope Works at Feature No. 11NE-D/C987 (90m) | 320 days Fri 8/7/22 | Tue 23/5/23 | | 1 | | | | | | | | | | | | |
| 863 | Construction of concrete berm | 21 days Wed 3/5/23 | Tue 23/5/23 | 865FF | 1 | | | | | | | | | | | | |
| | | | | | | | | | | · | | | | | | | |
| | Task Critical Task | Milestone 🔇 | S | ummary 🛡 | - | Progres | ss | | | | | | | | | | |
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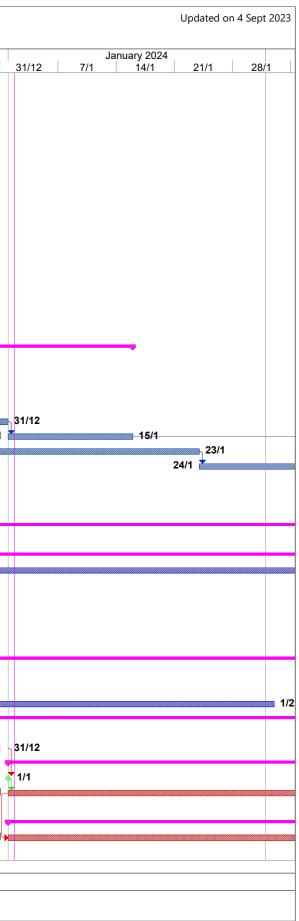
| ID | Fask Name | Duration | Start | Finish | Predecessors | | Veviseu Pro | gramme: Septer November 2 | | | | December 20 | 023 |
|------------|--|----------|---------------------------------|----------------------------|--------------|-------|-------------|------------------------------|-------|-------|------|----------------------|----------|
| 004 | | 7.1 | 101 1 47/5/00 | T 00/5/00 | 00555 | 29/10 | 5/11 | 12/11 | 19/11 | 26/11 | 3/12 | 10/12 | 17/12 24 |
| 364 365 | Installation of hand railings Installation of non-biodegradable erosion control mat with hydroseeding | | s Wed 17/5/23 s Fri 8/7/22 | Tue 23/5/23 Tue 23/5/23 | 865FF 845 | | | | | | | | |
| 866 | Repainting of handrailing | | s Wed 17/5/23 | Tue 23/5/23 | 865FF | | | | | | | | |
| 867 | Slope Works at Feature No. 11NE-D/C980 (55m) | | s Wed 1//3/23 s Wed 20/12/23 | Tue 19/3/24 | 00311 | | | | | | | | |
| 868 | Construction of concrete berm | | s Mon 19/2/24 | Tue 19/3/24 | 870FF | | | | | | | | |
| 369 | Installation of hand railings | | s Sun 3/3/24 | Tue 19/3/24 | 870FF | | | | | | | | |
| 570 | Installation of non-biodegradable erosion control mat with hydroseeding | | s Wed 20/12/23 | Tue 19/3/24 | 879 | | | | | | | 20/12 | <u>,</u> |
| 371 | Repainting of handrailing | , | s Tue 26/12/23 | Mon 1/1/24 | 870FF | | | | | | | | 26/12 🚃 |
| 372 | Slope Works at Feature No. 11NE-D/C174 (70m) | , | s Sat 4/5/24 | Fri 10/5/24 | | | | | | | | | |
| 373 | Reinstatement of sprayed concrete | | s Sat 4/5/24 | Fri 10/5/24 | 851 | | | | | | | | |
| 374 | Slope Works at Feature No. 11NE-D/C688 (167m) | 37 day | s Sat 11/5/24 | Sun 16/6/24 | | | | | | | | | |
| 875 | Constructiion of tree rings x9 | 7 day | s Mon 10/6/24 | Sun 16/6/24 | 876FF | | | | | | | | |
| 376 | Reinstatement of sprayed concrete | 37 day | s Sat 11/5/24 | Sun 16/6/24 | 873 | | | | | | | | |
| 377 | Slope Works at Feature No. 11NE-D/C1026 (60m) | 210 day | <mark>s</mark> Wed 24/5/23 | Tue 19/12/23 | | | | | | | | | |
| 878 | Filling of void with cement soil | 16 day | s Mon 4/12/23 | Tue 19/12/23 | 879FF | | | | | | 4/12 | | 19/12 |
| 879 | Installation of non-biodegradable erosion control mat with hydroseeding | 210 day | s Wed 24/5/23 | Tue 19/12/23 | 865 | | | | | | | | 19/12 |
| 880 | Repainting of handrailing | 124 day | s Fri 18/8/23 | Tue 19/12/23 | 879FF | | | | | | | | 19/12 |
| 881 | Slope Works at Feature No. 11NE-D/C979 (45m) | 305 day | <mark>s</mark> Sun 24/9/23 | Wed 24/7/24 | | | | | | | | | |
| 882 | Construction of concrete berm | 14 day | s Thu 11/7/24 | Wed 24/7/24 | 919 | | | | | | | | |
| 883 | Installation of hand railings | 7 day | s Thu 18/7/24 | Wed 24/7/24 | 882FF | | | | | | | | |
| 884 | Repainting of handrailing | 7 day | s Sun 24/9/23 | Sat 30/9/23 | 882FF | | | | | | | | |
| 385 | Slope Works at Feature No. 11NE-D/C947 (420m) | 101 day | s Sat 14/10/23 | Mon 22/1/24 | | | | | | | | | |
| 386 | Filling of void with cement soil | | s Sat 14/10/23 | Fri 20/10/23 | | | | | | | | | |
| 387 | Removal of damaged wire mesh and construction of new wire mesh | | s Sat 21/10/23 | Mon 22/1/24 | 912,886 | | | | | | | | |
| 888 | Installation of hand railings | | s Tue 9/1/24 | Mon 22/1/24 | 887FF | | | | | | | | |
| 889 | Reinstatement of concrete berm | | s Tue 16/1/24 | Mon 22/1/24 | 887FF | | | | | | | | |
| 890 | Repainting of handrailing | | s Tue 16/1/24 | Mon 22/1/24 | 887FF | | | | | | | | |
| 391 | Slope Works at Feature No. 11NE-D/C977 (300m) | | s Tue 23/1/24 | Fri 22/3/24 | 00055 | | | | | | | | |
| 892 | Construction of 450 mm U-channel (~175m) | | s Fri 23/2/24 | Fri 22/3/24 | 893FF | | | | | | | | |
| 893 894 | Construction of wire mesh Construction of handrailing | , | s Tue 23/1/24 s Sat 16/3/24 | Fri 22/3/24 Fri 22/3/24 | 887 893FF | | | | | | | | |
| | Repainting of handrailing | | s Sat 16/3/24 s Sat 16/3/24 | Fri 22/3/24 | 893FF | | | | | | | | |
| 895 896 | Slope Works at Feature No. 11NE-D/C986 (190m) | | s Sat 10/3/24 | Tue 21/5/24 | 093FF | | | | | | | | |
| 390 397 | Filling of void with cement soil | | s Wed 15/5/24 | Tue 21/5/24 | 900FF | | | | | | | | |
| 398 | Construction of concrete berm | | s Thu 2/5/24 | Tue 21/5/24 | 900FF | | | | | | | | |
| 399 | Installation of hand railings | | s Thu 16/5/24 | Tue 21/5/24 | 898FF | | | | | | | | |
| 900 | Construction of wire mesh | | s Sat 23/3/24 | Tue 21/5/24 | 893 | | | | | | | | |
| 901 | Slope Works at Feature No. 11NE-D/C871 (260m) | , | s Fri 8/7/22 | Tue 23/5/23 | | | | | | | | | |
| 902 | Construction of lockable gate | | s Wed 17/5/23 | Tue 23/5/23 | 904FF | | | | | | | | |
| 903 | Removal of existing damaged hand railings | 14 day | s Wed 10/5/23 | Tue 23/5/23 | 904FF | | | | | | | | |
| 904 | Installation of hand railings | 320 day | s Fri 8/7/22 | Tue 23/5/23 | 845 | | | | | | | | |
| 905 | Installation of non-biodegradable erosion control mat with hydroseeding | 24 day | s Sun 30/4/23 | Tue 23/5/23 | 904FF | | | | | | | | |
| 906 | Reinstatement of concrete berm | 7 day | s Wed 17/5/23 | Tue 23/5/23 | 904FF | | | | | | | | |
| 907 | Repainting of handrailing | 7 day | s Wed 17/5/23 | Tue 23/5/23 | 904FF | | | | | | | | |
| 908 | Slope Works at Feature No. 11NE-D/C976 (185m) | 200 day | <mark>s</mark> Wed 24/5/23 | Sat 9/12/23 | | | | | | | | • | |
| 909 | Construction of concrete berm | 25 day | s Tue 26/9/23 | Fri 20/10/23 | 912FF | | | | | | | | |
| 910 | Installation of hand railings | 88 day | s Wed 13/9/23 | Sat 9/12/23 | 912FF | | | | | | | <mark>⊪∢</mark> 9/12 | |
| 911 | Repainting of existing steel maintenance staircase | 7 day | s Sat 14/10/23 | Fri 20/10/23 | 912FF | | | | | | | | |
| 912 | Construction of wire mesh | | s Wed 24/5/23 | Fri 20/10/23 | 904 | | | | | | | | |
| 913 | Removal of existing handrailing and steel landing plates and re-construct | | s Sat 14/10/23 | Fri 20/10/23 | 912FF | | | | | | | | |
| 914 | Slope Works at Feature No. 11NE-D/C978 (350m) | | s Wed 22/5/24 | Sat 15/6/24 | | | | | | | | | |
| 915 | Construction of concrete berm | | s Wed 22/5/24 | Sat 15/6/24 | 898 | | | | | | | | |
| 916 | Installation of hand railings | 16 day | s Fri 31/5/24 | Sat 15/6/24 | 915FF | | | | | | | | |
| | | | | | | | | | | | | | |



| | | | | ' | | liue | | Site - Infrastructure, Gree gramme: September 2023 | | nuscape works | | |
|-----|--|----------|----------------------------|--------------|-----------------|------|------------|---|------|---------------|------------------------------|-------|
| ID | Task Name | Duration | Start | Finish | Predecessors | | 29/10 5/11 | November 2023 | 26/1 | 3/12 | December 2023 10/12 17/12 | 24/12 |
| 917 | Repainting of existing steel maintenance staircase | 7 day | s Sun 9/6/24 | Sat 15/6/24 | 915FF | | | | | | | |
| 918 | Slope Works at Feature No. 11NE-D/C988 (370m) | 25 day | <mark>s</mark> Sun 16/6/24 | Wed 10/7/24 | | | | | | | | |
| 919 | Construction of concrete berm | 25 day | s Sun 16/6/24 | Wed 10/7/24 | 915 | | | | | | | |
| 920 | Installation of hand railings | 15 day | s Wed 26/6/24 | Wed 10/7/24 | 919FF | | | | | | | |
| 921 | Slope Works at Feature No. 11NE-D/C1004 (375m) | 7 day | <mark>s</mark> Thu 25/7/24 | Wed 31/7/24 | | | | | | | | |
| 922 | Repainting of handrailing | 7 day | s Thu 25/7/24 | Wed 31/7/24 | 882 | 1 | | | | | | |
| 923 | Section of Works 5AI - Establishment Works for all Landscape Softworks in Section 5A of the Works | 365 day | s Thu 1/8/24 | Thu 31/7/25 | | | | | | | | |
| 924 | Commencement of Establishment Work for Section 5A | 0 day | s Thu 1/8/24 | Thu 1/8/24 | 837FF+1 day | | | | | | | |
| 925 | Establishment Work Duration for Section 5A | 365 day | s Thu 1/8/24 | Thu 31/7/25 | 924SS-1 day | | | | | | | |
| 926 | Completion of Works in Section 5A | 0 day | s Thu 31/7/25 | Thu 31/7/25 | 925 | 1 | | | | | | |
| 927 | Section of Works 5B - Portion 11 | 886 day | s Sun 27/2/22 | Wed 31/7/24 | | - | | | | | | |
| 928 | Portion 11 | 886 day | s Sun 27/2/22 | Wed 31/7/24 | | - | | | | | | |
| 929 | Provision of site access [212 days after starting date as per Contract] | 0 day | s Sun 27/2/22 | Sun 27/2/22 | 104SS | 1 | | | | | | |
| 930 | Portion 9 delay (Handover site to other Contractor) | 232 day | s Tue 14/3/23 | Tue 31/10/23 | 929,815SS | | 31/10 | | | | | |
| 931 | Provision of site access and stockpile area for works at Portion 9 | 274 day | s Wed 1/11/23 | Wed 31/7/24 | 930,816SS | 1/1 | 14 | | | | | |
| 932 | Road marking & miscellaneous work | 30 day | s Tue 2/7/24 | Wed 31/7/24 | 821FF,931FF | | | | | | | |
| 933 | Section of Works 6 - Portion 7 | 455 day | s Tue 29/11/22 | Mon 26/2/24 | | - | | | | | | |
| 934 | Portion 7 | 455 day | s Tue 29/11/22 | Mon 26/2/24 | | - | | | | 1 | | |
| 935 | Access date [487 days after starting date as per Contract] | 0 day | s Tue 29/11/22 | Tue 29/11/22 | 110SS | | | | | | | |
| 936 | Deferred possession (PMI 58) | 90 day | s Tue 29/11/22 | Sun 26/2/23 | 935 | | | | | | | |
| 937 | Provision of site access | 7 day | s Mon 27/2/23 | Sun 5/3/23 | 936 | 1 | | | | | | |
| 938 | Mobilization& Site Clearance | 60 day | s Mon 6/3/23 | Thu 4/5/23 | 937 | | | | | | | |
| 939 | Time Risk Allowance | 15 day | s Fri 5/5/23 | Fri 19/5/23 | 938 | | | | | | | |
| 940 | Excavation/backfilling and compaction of material | | s Fri 1/12/23 | Sat 30/12/23 | 938,939 | | | | 1/12 | | | |
| 941 | Construction of U-channels with cover and catchpits | | s Sun 31/12/23 | Mon 29/1/24 | 940 | - | | | | | | 31/12 |
| 942 | Road Paving work and associates street furniture | | s Tue 30/1/24 | Mon 26/2/24 | 941 | - | | | | | | |
| 943 | Soft landscaping works | | s Sun 28/1/24 | Mon 26/2/24 | 942FF | - | | | | | | |
| 944 | Irrigation system | | s Sat 16/9/23 | Tue 6/2/24 | | | | | | | | |
| 945 | Contractor's design | - | s Sat 16/9/23 | Mon 30/10/23 | | | -30/10 | | | | | |
| 946 | Approval of WWO542 | | s Wed 1/11/23 | Thu 30/11/23 | 945 | | | | | 30/11 | | |
| 947 | Approval of Form WWO 046 | | s Fri 1/12/23 | Thu 21/12/23 | 946 | - | - | | 1/12 | | | 21/12 |
| 948 | Underground water supply for irrigation | | s Fri 22/12/23 | Sun 31/12/23 | 947 | - | | | | | 22/12 | |
| 949 | Irrigation system | | s Sun 28/1/24 | Tue 6/2/24 | 943SS | | | | | | _ | |
| 950 | Section of Works 6A - Establishment Works for all Landscape Softworks in Section 6 of the Works | | s Tue 27/2/24 | Tue 25/2/25 | | | | | | | | |
| 951 | Commencement of Establishment Work for Section 6 | 0 day | s Tue 27/2/24 | Tue 27/2/24 | 952SS | | | | | | | |
| 952 | Establishment Work Duration for Section 6 | 365 day | s Tue 27/2/24 | Tue 25/2/25 | 943 | | | | | | | |
| 953 | Completion of Works in Section 6 | 0 day | s Tue 25/2/25 | Tue 25/2/25 | 952FF | 1 | | | | | | |
| 954 | Section of Works 7A - Portions 13a, 14 (DELETED) | | s Fri 30/7/21 | Sun 20/11/22 | | 1 | | | | | | |
| 978 | Section of Works 7AI - Establishment Works for all Landscape Softworks in Section 7A of the Works (DELETED) | 365 day | s Fri 30/7/21 | Fri 29/7/22 | | | | | | | | |
| 979 | Commencement of Establishment Work for Section 7A | 0 day | s Fri 30/7/21 | Fri 30/7/21 | | 1 | | | | | | |
| 980 | Establishment Work Duration for Section 7A | 365 day | s Fri 30/7/21 | Fri 29/7/22 | | 1 | | | | | | |
| 981 | Completion of Works in Section 7A | - | s Fri 29/7/22 | Fri 29/7/22 | 980 | | | | | | | |
| 982 | Section of Works 7B - Portions 13b, 15 | 948 day | s Sat 26/2/22 | Mon 30/9/24 | | | | | | | | |
| 983 | Portion 13b & 15 | 948 day | s Sat 26/2/22 | Mon 30/9/24 | | | | | | | | |
| 984 | Provision of site access [212 days after starting date as per Contract] | - | s Sun 27/2/22 | Sat 5/3/22 | 133 | - | | | | | | |
| 985 | Deferred possession | - | s Sat 26/2/22 | Mon 18/4/22 | 133SS | | | | | | | |
| 986 | Mobilization& Site Clearance | 21 day | s Tue 19/4/22 | Mon 9/5/22 | 985 | | | | | | | |
| 987 | Time Risk Allowance | | s Tue 10/5/22 | Tue 24/5/22 | 986,367 | - | | | | | | |
| 988 | Portion 13b | | s Wed 25/5/22 | Mon 30/9/24 | 987 | | | | | | | |
| 989 | Elevated walkway | - | s Wed 25/5/22 | Sun 11/8/24 | | | | | | | | |
| 990 | Modification of existing retaining wall RWA10 (PMI 033) | | s Wed 25/5/22 | Sat 23/7/22 | 986,367 | - | | | | | | |
| 991 | Modification of existing retaining wall RWA9 & 10 | 447 day | s Sun 24/7/22 | Fri 13/10/23 | 986,367,987,990 | | | | | | | |
| | Task Critical Task | M | lilestone 🔷 | | ummon/ | | Progress | | | | | |
| | | M | mestone 💙 | 5 | Summary | | Progress | | | | | |



| | | | | Development of Ar | | | | rastructure Septembe | | ing and Lar | idscape Wo | orks | | | | | |
|--------------|---|---|----------------------------|-----------------------|-------|--------|----------------------|-------------------------|-------|-------------|------------|---------|------------------|------------------|---|-------|----|
| ID | Fask Name | Duration Start | Finish | Predecessors | 29/10 | 5/11 | | mber 2023 2/11 | 19/11 | 26/11 | 3/12 | | Decembe 10/12 | er 2023 17/12 | 2 | 24/12 | |
| 992 | Wall RWA10 | 447 days Sun 24/7/22 | Fri 13/10/23 | | 23/10 | 5/11 | | 2/11 | 13/11 | 20/11 | 0/12 | - | 10/12 | 17/12 | 2 | .7/12 | - |
| 993 | Excavation | 100 days Sun 24/7/22 | Mon 31/10/22 | 990 | | | | | | | | | | | | | |
| 994 | Cutting away existing coping by wire sawing machine | 75 days Tue 1/11/22 | Sat 14/1/23 | 993 | | | | | | | | | | | | | |
| 995 | Hacking away existing wall stem by hydraulic breaker (existing vertical bar to be retained for further connection) | 45 days Sun 15/1/23 | Tue 28/2/23 | 994 | | | | | | | | | | | | | |
| 996 | Construction of new RC wall stem | 86 days Mon 17/7/23 | Tue 10/10/23 | 995 | | | | | | | | | | | | | |
| 997 | Backfilling | 4 days Tue 10/10/23 | Fri 13/10/23 | | | | | | | | | | | | | | |
| 998 | Wall RWA9 | 165 days Thu 16/3/23 | Sun 27/8/23 | | | | | | | | | | | | | | |
| 999 | Excavation | 15 days Thu 16/3/23 | Thu 30/3/23 | 995FS+15 days | | | | | | | | | | | | | |
| 1000 | Hacking away existing wall stem by hydraulic breaker (existing vertical bar to be retained for further connection) | 60 days Fri 31/3/23 | Mon 29/5/23 | 999 | | | | | | | | | | | | | |
| 1001 | Construction of new RC wall stem | 75 days Sat 10/6/23 | Wed 23/8/23 | 1000 | | | | | | | | | | | | | |
| 1002 | Backfilling | 4 days Thu 24/8/23 | Sun 27/8/23 | 1001 | | | | | | | | | | | | | |
| 1003 | Bearing | 252 days Thu 16/3/23 | Wed 22/11/23 | | | | | | - | | | | | | | | |
| 1004 | Material submission for appproval | 30 days Thu 16/3/23 | Fri 14/4/23 | | | | | | | | | | | | | | |
| 1005 | Fabrication | 106 days Sat 15/4/23 | Sat 29/7/23 | 1004 | | | | | | | | | | | | | |
| 1006 | Testing | 29 days Sun 30/7/23 | Sun 27/8/23 | 1005 | | | | | | | | | | | | | |
| 1007 | Installation | 7 days Wed 1/11/23 | Tue 7/11/23 | 1006,997,1002 | /11 🖌 | 7/ | 11 | | | | | | | | | | |
| 1008 | Grouting to bearing bases and curing | 15 days Wed 8/11/23 | Wed 22/11/23 | 1007 | | 8/11 📩 | | | -22 | /11 | | | | | Ъ | | |
| 1009 | Precast beams | 223 days Wed 7/6/23 | Mon 15/1/24 | | | | | | | | | | | | - | | - |
| 1010 | Submission for approval | 78 days Wed 7/6/23 | Wed 23/8/23 | | | | | | | | | | | | | | |
| 1011 | Fabrication | 38 days Wed 4/10/23 | Fri 10/11/23 | 1010 | | | <mark>س</mark> 10/11 | | | | | | | | | | |
| 1012 | Post-tensioning and grouting | 57 days Sun 15/10/23 | Sun 10/12/23 | 1011FS-31 days | | | | | | | | | 10/12 | | | | |
| 1013 | Capping ends | 3 days Mon 11/12/23 | Wed 13/12/23 | 1012FS-27 days | | | | | | | | 11/12 👗 | 13/1: | 2 | | | |
| 1014 | Installation | 9 days Sat 23/12/23 | Sun 31/12/23 | 1013,1008 | | | | | | | | | | 23/12 | * | | |
| 1015 | Grouting to bearing tops and curing | 15 days Mon 1/1/24 | Mon 15/1/24 | 1014 | | | | | | | | | | | | 1/ | 1 |
| 1016 | Fabrication of permanent formwork | 76 days Thu 9/11/23 | Tue 23/1/24 | | | 9/11 🔤 | | | | | | | | | | | |
| 1017 | Installation of permanent formwork | 31 days Wed 24/1/24 | Fri 23/2/24 | 1016 | | | | | | | | | | | | | |
| 1018 | Casting of in-situ tie beams | 26 days Sat 24/2/24 | Wed 20/3/24 | 1015,1017 | | | | | | | | | | | | | |
| 1019 | Casting of in-situ topping slab | 16 days Thu 21/3/24 | Fri 5/4/24 | 1018 | | | | | | | | | | | | | |
| 1020 | Finishing and landscaping works | 128 days Sat 6/4/24 | Sun 11/8/24 | 1018,1019 | | | | | | | | | | | | | |
| 1021 | Covered Walkway under PMQP 004 | 337 days Thu 5/10/23 | Thu 5/9/24 | | | | | | | | | | | | | | - |
| 1022 | Awaiting finished level from PM due to interfacing party | 42 days Thu 5/10/23 | Wed 15/11/23 | | | | | 15/11 | | | | | | | | | |
| 1023 | Contractor Design | 120 days Thu 16/11/23 | Thu 14/3/24 | | | | | | | | | | | | | | |
| 1024 | Submission | 90 days Thu 16/11/23 | Tue 13/2/24 | 1022 | | | 16/1 | 1 | | | | | | | | | |
| 1025 | Approval | 30 days Wed 14/2/24 | Thu 14/3/24 | 1024 | | | | | | | | | | | | | |
| 1026 | Construction | 175 days Fri 15/3/24 | Thu 5/9/24 | | | | | | | | | | | | | | |
| 1027 | Footing | 45 days Fri 15/3/24 | Sun 28/4/24 | 1025 | | | | | | | | | | | | | |
| 1028 | Superstructure | 130 days Mon 29/4/24 | Thu 5/9/24 | 1027 | | | | | | | | | | | | | |
| 1029 | Lighting system | 60 days Fri 15/3/24 | Mon 13/5/24 | 1027SS | | | | | | | | | | | | | |
| 1030 | Additional works under PMQP 004 | 708 days Mon 24/10/22 | | | | | | | | | | | | | | | |
| 1031 | Issuance of PMQP 004 | 0 days Mon 24/10/22 | | 1001 | | | | | | | | | | | | | |
| 1032 | Hoarding and gate around Site G2 | 153 days Wed 1/3/23 | Mon 31/7/23 | 1031 | | | | | | | 4/40 - | | | | | | |
| 1033 | Greywater drainage pipes and manholes at Portion 12 | 60 days Mon 4/12/23 | Thu 1/2/24 | | | | | | | | 4/12 | | | | | | |
| 1034 | Revised slope works including U-channel & catchpit | 708 days Mon 24/10/22 | | 102100 | | | | | | | | | | | | | |
| 1035 | Late handover of site by others | 195 days Mon 24/10/22 | | 1031SS | | | | | | | | | 47/40 | | | | |
| 1036 | Installation of monitoring instruments | 14 days Sun 17/12/23 | Sun 31/12/23 | | | | | | | | | | 17/12 | | | | 1 |
| 1037 | Slope B3 | 274 days Mon 1/1/24 | Mon 30/9/24 | 1036 | | | | | | | | | | | | | , |
| 1038 | Works area handed over by others | 0 days Mon 1/1/24 | Mon 1/1/24 | | | | | | | | | | | | | | 1_ |
| 1039 | Excavatoin of slope B3 Construction of slope B3 | 40 days Mon 1/1/24 234 days Sat 10/2/24 | Fri 9/2/24 Mon 30/9/24 | 1038 1039 | | | | | | | | | | | | 17 | |
| 1040 | Slope B4 | 234 days Sat 10/2/24 274 days Mon 1/1/24 | Mon 30/9/24 Mon 30/9/24 | 1033 | | | | | | | | | | | | | |
| 1041 1042 | Excavatoin of slope B4 | 40 days Mon 1/1/24 | Fri 9/2/24 | 1039SS | | | | | | | | | | | | | 1 |
| | Construction of slope B4 | 234 days Sat 10/2/24 | Mon 30/9/24 | 103955 1042,1040FF | | | | | | | | | | | | 17 | • |
| 1043 | | 204 uays oat 10/2/24 | 101011 30/9/24 | 1042,1040FF | | | | | | | <u> </u> | | | | | | |
| | | | | | | | | | | | | | | | | | |



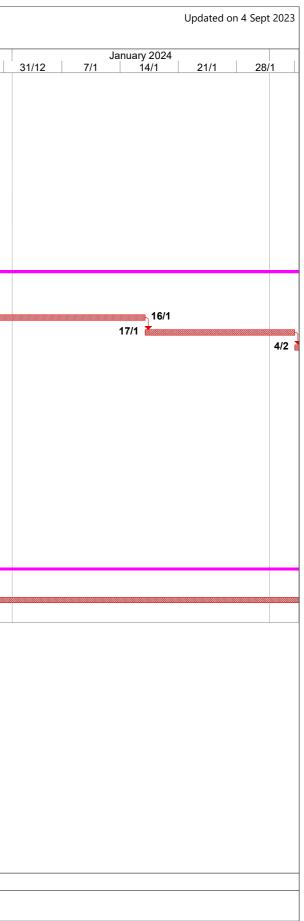
| | | | o | | | | Re | vised Prog | gramme: Sept | | ning and La | | | | | 000- | |
|------|--|----------|--------------|--------------|----------------|------|----------|------------|-------------------|---------|-------------|---|------|-----|-----------------|-----------------|-------|
| ID | ask Name | Duration | Start | Finish | Predecessors | | 29/10 | 5/11 | November 12/11 | 2023 | 26/1 | 1 | 3/12 | | Decembe 0/12 | r 2023 17/12 | 24/12 |
| 1044 | Revised access road including roundabout, drainage, sewerage and water mains | 184 days | Wed 1/3/23 | Thu 31/8/23 | | | | | | | | | | | | | |
| 1045 | Drainage, sewerage and water mains | 184 days | Wed 1/3/23 | Thu 31/8/23 | | | | | | | | | | | | | |
| 1046 | Access road | 61 days | Thu 1/6/23 | Mon 31/7/23 | 1045FS-71 days | | | | | | | | | | | | |
| 1047 | Watermains connection, sewerage pipes and manholes connection | 659 days | Mon 12/12/22 | Mon 30/9/24 | | - | | | | | | | | | | | |
| 1048 | Existing footpath | 405 days | Mon 12/12/22 | Sat 20/1/24 | | | | | | | | | | | | | |
| 1049 | Implementation of TTA | 1 day | Mon 12/12/22 | Mon 12/12/22 | 1031 | 1 | | | | | | | | | | | |
| 1050 | UU Detection | 7 days | Tue 13/12/22 | Mon 19/12/22 | 1049 | | | | | | | | | | | | |
| 1051 | Trial pit | 14 days | Tue 20/12/22 | Mon 2/1/23 | 1050 | 1 | | | | | | | | | | | |
| 1052 | HYD condition letter and WSD's approval | 62 days | Sat 1/7/23 | Thu 31/8/23 | 1051 | | | | | | | | | | | | |
| 1053 | UU protection, relocation of hydrant and lamp post | 60 days | Fri 1/9/23 | Mon 30/10/23 | 1052 | - | 30/10 | | | | | | | | | | |
| 1054 | UU installation | 45 days | Tue 31/10/23 | Thu 14/12/23 | 1053 | 10 | | | | | | | | | 14/ | 12 | |
| 1055 | Construction | 30 days | Fri 15/12/23 | Sat 13/1/24 | 1054 | | | | | | | | | 15/ | /12 👗 | | |
| 1056 | Reinstatement | 7 days | Sun 14/1/24 | Sat 20/1/24 | 1055 | 1 | | | | | | | | | | | |
| 1057 | Portion 15 | 335 days | Wed 1/11/23 | Mon 30/9/24 | |] | • | | | | | | | | | | |
| 1058 | Existing uphill lane | 186 days | Wed 1/11/23 | Sat 4/5/24 | | 1 | - | | | | | | | | | | |
| 1059 | Implementation of TTA | 1 day | Wed 1/11/23 | Wed 1/11/23 | | 1/11 | 1/1 🔤 | 1 | | | | | | | | | |
| 1060 | UU Detection | 7 days | Thu 2/11/23 | Wed 8/11/23 | 1059 | 2/1 | 11 📥 | | 3/11 | | | | | | | | |
| 1061 | Trial pit | 14 days | Thu 9/11/23 | Wed 22/11/23 | 1060 | 1 | | 9/11 📩 | | Ъ | 22/11 | | | | | | |
| 1062 | Construction | 150 days | Thu 23/11/23 | Sat 20/4/24 | 1061 | | | | | 23/11 🎽 | | | | | | | |
| 1063 | Reinstatement | 14 days | Sun 21/4/24 | Sat 4/5/24 | 1062 | 1 | | | | | | | | | | | |
| 1064 | Existing downhill lane | 149 days | Sun 5/5/24 | Mon 30/9/24 | | | | | | | | | | | | | |
| 1065 | Implementation of TTA | 1 day | Sun 5/5/24 | Sun 5/5/24 | 1063 | | | | | | | | | | | | |
| 1066 | UU Detection | 4 days | Mon 6/5/24 | Thu 9/5/24 | 1065 | | | | | | | | | | | | |
| 1067 | Trial pit | 7 days | Fri 10/5/24 | Thu 16/5/24 | 1066 | 1 | | | | | | | | | | | |
| 1068 | Construction | 123 days | Fri 17/5/24 | Mon 16/9/24 | 1067 | | | | | | | | | | | | |
| 1069 | Reinstatement | 14 days | Tue 17/9/24 | Mon 30/9/24 | 1068 | | | | | | | | | | | | |
| 1070 | Irrigation system | 393 days | Fri 19/5/23 | Fri 14/6/24 | | - | | | | | | _ | | | | | |
| 1071 | Contractor's design | 76 days | Fri 19/5/23 | Wed 2/8/23 | | | | | | | | | | | | | |
| 1072 | Approval of WWO542 | 30 days | Thu 3/8/23 | Fri 1/9/23 | 1071 | | | | | | | | | | | | |
| 1073 | Approval of Form WWO 046 | 21 days | Sat 2/9/23 | Fri 22/9/23 | 1072 | 1 | | | | | | | | | | | |
| 1074 | Underground water supply for irrigation | 60 days | Sat 23/9/23 | Tue 21/11/23 | 1073 | | | | | 21 | /11 | | | | | | |
| 1075 | Irrigation system | 45 days | Wed 1/5/24 | Fri 14/6/24 | 1082SS,1074 | 1 | | | | | | | | | | | |
| 1076 | Lighting system | 669 days | Fri 30/9/22 | Mon 29/7/24 | | - | | | | | | | | | | | |
| 1077 | Contractor's design | 45 days | Fri 30/9/22 | Sun 13/11/22 | | 1 | | | | | | | | | | | |
| 1078 | Application for electricity power supply | 362 days | Mon 14/11/22 | Fri 10/11/23 | 1077 | | | | 10/11 | | | | | | | | |
| 1079 | Lighting design | 300 days | Mon 14/11/22 | Sat 9/9/23 | | 1 | | | | | | | | | | | |
| 1080 | LCSD's approval of lighting of ighting system | 31 days | Sun 1/10/23 | Tue 31/10/23 | 1079 | | 31/10 |) | | | | | | | | | |
| 1081 | Installation including ducting and draw pit | 90 days | Wed 1/11/23 | Mon 29/1/24 | 1080 | 1/11 | * | | | | | | | | | | |
| 1082 | Installation of lighting | 60 days | Wed 1/5/24 | Sat 29/6/24 | 1081 | | | | | | | | | | | | |
| 1083 | Energization | 15 days | Sun 30/6/24 | Sun 14/7/24 | 1082 | | | | | | | | | | | | |
| 1084 | Testing and Commissioning | 15 days | Mon 15/7/24 | Mon 29/7/24 | 1083 | 1 | | | | | | | | | | | |
| 1085 | Soil placement, woodland greening work and soft landscape works | 120 days | Mon 3/6/24 | Mon 30/9/24 | 1043FF,1069FF | 1 | | | | | | | | | | | |
| 1086 | Section of Works 7BI - Establishment Works for all Landscape Softworks in Section 7B of the Works | 365 days | Tue 1/10/24 | Tue 30/9/25 | |] | | | | | | | | | | | |
| 1087 | Commencement of Establishment Work for Section 7B | 0 days | Tue 1/10/24 | Tue 1/10/24 | 1043FS+1 day | | | | | | | | | | | | |
| 1088 | Establishment Work Duration for Section 7B | 365 days | Tue 1/10/24 | Tue 30/9/25 | 1087SS-1 day | | | | | | | | | | | | |
| 1089 | Completion of Works in Section 7B | | Tue 30/9/25 | Tue 30/9/25 | 1088 | | | | | | | | | | | | |
| 1090 | Section of Works 8 - Portion 16 | 564 days | Thu 16/6/22 | Sun 31/12/23 | | - | | | | | | | | | | | |
| 1091 | Portion 16 | - | Thu 16/6/22 | Sun 31/12/23 | | - | | | | | | | | | | | |
| 1092 | Site access date [321 days after starting date as per Contract] | - | Thu 16/6/22 | Thu 16/6/22 | 149SS | 1 | | | | | | | | | | | |
| 1093 | Time Risk Allowance | - | Thu 16/6/22 | Sat 9/7/22 | 1092 | 1 | | | | | | | | | | | |
| 1094 | Late handover of site by others | 350 days | Thu 16/6/22 | Wed 31/5/23 | 1093 | 1 | | | | | | | | | | | |
| 1095 | Mobilization& Site Clearance | | Thu 1/6/23 | Sun 4/6/23 | 1094 | 1 | | | | | | | | | | | |
| | | | | 1 | | 1 | 1 | | | | | | | | | | |
| | Task Critical Task | Mi | estone 🔷 | ç | Summary | _ | Progress | | | | | | - | | | | |



| | | | | D | evelopment of An | 140130 | | sed Prog | | | | ing an | | uscape | VVOIKS | 5 | | | | | | | | | | | | |
|--------------|--|---------------------------|----------|------------------------------|------------------|--------|----------|----------|--------------------|-------|-------|--------|-------|--------|--------|---|----------------|---------|-------|--|------|---|-----------|---------------|-------------|------|---|------|
| ID Tas | k Name | Duration Sta | art | Finish | Predecessors | 29/ | /10 | 5/11 | ember 12/11 | | 9/11 | 2 | 26/11 | | 3/12 | | Decemb 0/12 | er 2023 | 24/12 | 3 | 1/12 | 7 | J: 7/1 | January 14 | 2024 4/1 | 21/* | 1 | 28/1 |
| 1096 | Removal of existing rock slope | 45 days Mon | 5/6/23 | Wed 19/7/23 | 1095 | | | | | | | | | | | | | | | | | | | | | | | |
| 1097 | Construction of fill slope A7 | 90 days Thu | 20/7/23 | Tue 17/10/23 | 1096 | | | | | | | | | | | | | | | | | | | | | | | |
| 1098 | Construction of fill slope A8 | 80 days Sun | 30/7/23 | Tue 17/10/23 | 1097FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1099 | Construction of slope surface drainage system | 45 days Wed | 18/10/23 | Fri 1/12/23 | 1097 | | | | | | | | | 1/12 | | | | | | —————————————————————————————————————— | | | | | | | | |
| 1100 | Soft landscaping work | 30 days Sat | 2/12/23 | Sun 31/12/23 | 1099 | | | | | | | | 2/12 | * | | | | | | <u>3</u> . | 1/12 | | | | | | | |
| 1101 | Additional stormwater drainage pipe (PMN 092) | 77 days Mon | 16/10/23 | Sun 31/12/23 | 1099FF | | | | | | | | | | | | | | | 3 ' | 1/12 | | | | | | | |
| | ection of Works 8A - Establishment Works for all Landscape Softworks n Section 8 of the Works | 365 days Mor | | Mon 30/12/24 | | | | | | | | | | | | | | | | | | | | | | | | _ |
| 1103 | Commencement of Establishment Work for Section 8 | 0 days Mon | | Mon 1/1/24 | 1104SS | | | | | | | | | | | | | | | 1 | /1 | | | | | | | |
| 1104 | Establishment Work Duration for Section 8 | 365 days Mon | | Mon 30/12/24 | 1100 | | | | | | | | | | | | | | | 1/1 | | | | | | | | |
| 1105 | Completion of Works in Section 8 | 0 days Mon | | Mon 30/12/24 | 1104FF | | | | | | | | | | | | | | | | | | | | | | | |
| | ection of Works 9 - Portion 17 | 931 days Sun | | Sat 14/9/24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1107 | Portion 17 | 931 days Sun | | Sat 14/9/24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1108 | Provision of site access [212 days after starting date as per Contract] | 0 days Sun | | Sun 27/2/22 | 160SS | | | | | | | | | | | | | | | | | | | | | | | |
| 1109 | Deferred possession | 30 days Sun | | Mon 28/3/22 | 1108 | | | | | | | | | | | | | | | | | | | | | | | |
| 1110 | Slope inspection & assessment work & Tree Survey | 23 days Tue | | Wed 20/4/22 | 1109 | | | | | | | | | | | | | | | | | | | | | | | |
| 1111 | Mobilization, access & Site Clearance | 15 days Thu | | Thu 5/5/22 | 1110 | | | | | | | | | | | | | | | | | | | | | | | |
| 1112 | Time Risk Allowance | 14 days Fri 6 | | Thu 19/5/22 | 1110,1111 | | | | | | | | | | | | | | | | | | | | | | | |
| 1113 | Access blocked by C1 at hiking trail | 0 days Mon | | Mon 3/7/23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1114 | Demolition and removal of disused water pipe and sprinkler system | 50 days Fri 2 | | Fri 8/7/22 | 1112 | | | | | | | | | | | | | | | | | | | | | | | |
| 1115 | Reinstatement of joint sealant at drainage channel | 716 days Fri 1 | | Sat 31/8/24 | 1114 | | | | | | | | | | | | | | | | | | | | | | | |
| 1116 | Installation of display sign for slope registration | 60 days Wed | | Sat 31/8/24 | 1115FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1117 | Slope Works at Feature No. 11NE-D/C872 (250m) | 274 days Sat | | Sat 8/4/23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1118 | Filling of void with concrete | 8 days Sat | | Sat 8/4/23 | 1119FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1119 | Installation of hand railings | 274 days Sat | | Sat 8/4/23 | 1114 | | | | | | | | | | | | | | | | | | | | | | | |
| 1120 | Installation of non-biodegradable erosion control mat with hydroseeding | 44 days Fri 2 | | Sat 8/4/23 | 1119FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1121 | Reinstatement of concrete berm | 7 days Sun | | Sat 8/4/23 | 1119FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1122 | Repainting of handrailing | 7 days Sat | | Sat 8/4/23 | 1119FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1123 | Slope Works at Feature No. 11NE-D/C948 (310m) | 99 days Thu | | Thu 19/10/23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1124 | Construction of concrete berm | 14 days Thu | | Wed 26/7/23 | 1141 1126FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1125 1126 | Repainting of existing steel maintenance staircase Construction of wire mesh | 8 days Thu 85 days Thu | | Thu 19/10/23 Thu 19/10/23 | 1120FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1120 | Slope Works at Feature No. 11NE-D/C981 (390m) | 112 days Fri 2 | | Thu 8/2/24 | 1124 | | | | | | | | | | | | | | | | | | | | | | | |
| 1127 | Construction of concrete berm | 16 days Fri 2 | | Sat 4/11/23 | 1126 | | | 4/11 | | | | | | | | | | | | | | | | | | | | |
| 1120 | Installation of hand railings | 16 days Sun | | Mon 20/11/23 | 1128 | | 5/11 | | | | 20/11 | | | | | | | | | | | | | | | | | |
| 1130 | Construction of wire mesh | 80 days Tue | | | 1129 | | J/11 8 | | • | 21/11 | | | | | | | | | | | | | | | | | | |
| 1130 | Slope Works at Feature No. 11NE-D/C949 (603m) | 120 days rue | | Fri 7/6/24 | 1123 | | | | 4 | 21/11 | | | | | | | | | | | | | | | | | | |
| 1132 | Filling of voids with concrete | 15 days Fri 9 | | Fri 23/2/24 | 1130 | | | | | | | | | | | | | | | | | | | | | | | |
| 1132 | Construction of concrete berm | 25 days Sat | | Tue 19/3/24 | 1132 | | | | | | | | | | | | | | | | | | | | | | | |
| 1134 | Installation of hand railings | 15 days Tue | | Tue 19/3/24 | 1133FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1135 | Construction of wire mesh | 80 days Wed | | | 1134 | | | | | | | | | | | | | | | | | | | | | | | |
| 1136 | Slope Works at Feature No. 11NE-B/C899 (280m) | 95 days Sun | | Wed 12/7/23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1137 | Filling of voids with concrete | 16 days Tue | | Wed 12/7/23 | 1140FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1138 | Construction of concrete berm | 17 days Mon | | Wed 12/7/23 | 1140FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1139 | Installation of hand railings | 24 days Mon | | Wed 12/7/23 | 1140FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1140 | Installation of non-biodegradable erosion control mat with hydroseeding | 95 days Sun | | Wed 12/7/23 | 1119 | | | | | | | | | | | | | | | | | | | | | | | |
| 1141 | Repainting of handrailing | 7 days Thu | | Wed 12/7/23 | 1140FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1142 | Slope Works at Feature No. 11NE-D/C983 (215m) | 14 days Sun | | Sat 14/9/24 | - | | | | | | | | | | | | | | | | | | | | | | | |
| 1143 | Construction of concrete berm | 7 days Sun | | Sat 7/9/24 | 1149 | | | | | | | | | | | | | | | | | | | | | | | |
| 1144 | Installation of hand railings | 7 days Sun | | Sat 14/9/24 | 1143 | | | | | | | | | | | | | | | | | | | | | | | |
| 1145 | Slope Works at Feature No. 11NE-B/C1013 (340m) | 85 days Sat | | Sat 31/8/24 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1146 | Construction of concrete maintenance staircase with hand railings* | 34 days Mon | | Sat 31/8/24 | 1149FF | | | | | | | | | | | | | | | | | | | | | | | |
| 1147 | Construction of wire mesh | 70 days Sat | | Fri 16/8/24 | 1135 | | | | | | | | | | | | | | | | | | | | | | | |
| 1148 | Construction of concrete berm | | | Wed 14/8/24 | 1147FS-19 days | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | - | | | | | | | | | | | | | | | | | | | | | | | |
| | Task Critical Task | Milestor | ne 💙 | Su | mmary 🗸 | | riogress | | 0 | | | | | | | | | | | | | | | | | | | |

| | nternational Water & Electric Corp. | | | [| Development of A | | | ite - Infrastru amme: Septe | | ig and Land | dscape Works | | | | |
|------|--|----------|----------------------------|--------------|------------------|-------|------|--------------------------------|-------|-------------|--------------|------------------|-----------------|-------|---|
| ID | Task Name | Duration | Start | Finish | Predecessors | 29/10 | 5/11 | November 12/11 | 2023 | 26/11 | 3/12 | Decembe 10/12 | r 2023 17/12 | 24/12 | |
| 1149 | Installation of hand railings | 17 day | rs Thu 15/8/24 | Sat 31/8/24 | 1148 | 29/10 | 5/11 | 12/11 | 19/11 | 20/11 | 3/12 | 10/12 | 1//12 | 24/12 | |
| 1150 | Slope Works at Feature No. 11NE-B/C900 (335m) | | s Sat 9/7/22 | Tue 16/5/23 | | - | | | | | | | | | |
| 1151 | Installation of non-biodegradable erosion control mat with hydroseeding | - | rs Sun 12/2/23 | Sun 30/4/23 | 1152 | | | | | | | | | | |
| 1152 | Installation of hand railings | 240 day | s Sat 9/7/22 | Sun 5/3/23 | 1114 | - | | | | | | | | | |
| 1153 | Reinstatement of concrete berm | 9 day | rs Mon 1/5/23 | Tue 9/5/23 | 1151 | - | | | | | | | | | |
| 1154 | Repainting of handrailing | | rs Wed 10/5/23 | Tue 16/5/23 | 1153 | | | | | | | | | | |
| 1155 | Slope Works at Feature No. 11NE-B/C901 (290m) | | s Wed 17/5/23 | Sat 28/10/23 | | | | | | | | | | | |
| 1156 | Filling of void with concrete | 16 day | s Wed 17/5/23 | Thu 1/6/23 | 1154 | _ | | | | | | | | | |
| 1157 | Installation of non-biodegradable erosion control mat with hydroseeding | 90 day | vs Fri 2/6/23 | Wed 30/8/23 | 1156 | | | | | | | | | | |
| 1158 | Construction of lockable gate | 7 day | rs Thu 31/8/23 | Wed 6/9/23 | 1157 | | | | | | | | | | |
| 1159 | Installation of hand railings | 36 day | rs Thu 7/9/23 | Thu 12/10/23 | 1158 | _ | | | | | | | | | |
| 1160 | Reinstatement of concrete berm | 9 day | s Fri 13/10/23 | Sat 21/10/23 | 1159 | _ | | | | | | | | | |
| 1161 | Repainting of handrailing | 7 day | s Sun 22/10/23 | Sat 28/10/23 | 1160 | 28/10 | | | | | | | | | |
| 1162 | Slope Works at Feature No. 11NE-B/C902 (360m) | 322 day | s Sun 29/10/23 | Sat 14/9/24 | | | | | | | | | | | _ |
| 1163 | Filling of void with cement soil | 30 day | rs Sun 29/10/23 | Mon 27/11/23 | 1161 | - | | | | 27/11 | I | | | | |
| 1164 | Filling of void with concrete | 25 day | rs Tue 28/11/23 | Fri 22/12/23 | 1163 | | | | 28 | /11 📥 | | | <u></u> 2 | 22/12 | |
| 1165 | Construction of concrete berm | 25 day | vs Sat 23/12/23 | Tue 16/1/24 | 1164 | | | | | | | | 23/12 📩 | | |
| 1166 | Installation of hand railings | 18 day | vs Wed 17/1/24 | Sat 3/2/24 | 1165 | | | | | | | | | | |
| 1167 | Repainting of existing steel maintenance staircase | 17 day | rs Sun 4/2/24 | Tue 20/2/24 | 1166 | | | | | | | | | | |
| 1168 | Slope Works at Feature No. 11NE-B/C903 (105m) | 51 day | s Wed 21/2/24 | Thu 11/4/24 | | | | | | | | | | | |
| 1169 | Installation of non-biodegradable erosion control mat with hydroseed | 51 day | rs Wed 21/2/24 | Thu 11/4/24 | 1167 | | | | | | | | | | |
| 1170 | Slope Works at Feature No. 11NE-B/C224 (40m) | 9 day | <mark>s</mark> Fri 12/4/24 | Sat 20/4/24 | | _ | | | | | | | | | |
| 1171 | Reinstatement of sprayed concrete | 9 day | rs Fri 12/4/24 | Sat 20/4/24 | 1169 | | | | | | | | | | |
| 1172 | Slope Works at Feature No. 11NE-B/C225 (60m) | 147 day | <mark>s</mark> Sun 21/4/24 | Sat 14/9/24 | | | | | | | | | | | |
| 1173 | Demolition and removal of existing damaged U-channel | 22 day | rs Sun 21/4/24 | Sun 12/5/24 | 1171 | | | | | | | | | | |
| 1174 | Construction of 225 mm U channel (60m) | 90 day | vs Mon 13/5/24 | Sat 10/8/24 | 1173 | | | | | | | | | | |
| 1175 | Reinstatement of sprayed concrete | 21 day | rs Sun 11/8/24 | Sat 31/8/24 | 1174 | | | | | | | | | | |
| 1176 | Reinstatement of damaged granite stone planter wall and granoite stone facing | 14 day | /s Sun 1/9/24 | Sat 14/9/24 | 1175 | | | | | | | | | | |
| 1177 | Section of Works 9A - Establishment Works for all Landscape Softworks in Section 9 of the Works | 365 day | s Sat 14/9/24 | Sun 14/9/25 | | | | | | | | | | | |
| 1178 | Commencement of Establishment Work for Section 9 | 0 day | rs Sat 14/9/24 | Sat 14/9/24 | 1176 | | | | | | | | | | |
| 1179 | Establishment Work Duration for Section 9 | 365 day | rs Sun 15/9/24 | Sun 14/9/25 | 1178 | _ | | | | | | | | | |
| 1180 | Completion of Works in Section 9 | 0 day | rs Sun 14/9/25 | Sun 14/9/25 | 1179FF | _ | | | | | | | | | |
| 1181 | Section of Works 10 - All Tree Protection and Preservation Works | 1202 day | s Fri 30/7/21 | Tue 12/11/24 | | _ | | | | | | | | | _ |
| 1182 | Commencement of All Tree Protection and Preservation Work | 0 day | rs Fri 30/7/21 | Fri 30/7/21 | | | | | | | | | | | |
| 1183 | All Tree Protection and Preservation Work | 1202 day | rs Fri 30/7/21 | Tue 12/11/24 | 1182 | | | | | | | | | | |
| 1184 | Completion of All Tree Protection and Preservation Work | 0 day | s Tue 12/11/24 | Tue 12/11/24 | 1183 | | | | | | | | | | |

| | Task | | Critical Task | Milestone 🔇 | Summa | ry 🗸 | Progress | 8 |
|-------------------------------|-------------|-------|---------------|-------------|-------|------|--------------|-------------|
| * Provisional subject to cont | firmation I | by PM | | | | | | Page 22 /22 |





Contract 5 (NE/2019/02)

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2023\October 2023\R0673v1.docx

Major Activities in Coming 3 Months

| Activity | Month | Oct 23 | | | Nov 2. | 3 | | | | Dec 23 | | | | Jan 24 | |
|--|-------|--------|---------|--------|--------|---------|---------|--------|-------|---------|---------|---------|-------|--------|---------|
| | Date | 16-21 | 24 - 28 | 30 - 4 | 6 - 11 | 13 - 18 | 20 - 25 | 27 - 2 | 4 - 9 | 11 - 16 | 18 - 23 | 26 - 30 | 2 - 6 | 8 - 13 | 15 - 20 |
| 1.0 Portion 1 | | | | | | | | | | | | | | | |
| 1.1 Lifting of 2 nrs escalators into the trough (PC2 to PC1) | | | | | | | | | | | | | | | |
| 1.2 Installation of escalators (PC2 to PC1) | | | | | | | | | | | | | | | |
| 1.3 Erection of steel roofing (PC2 to PC1) | | | | | | | | | 1 | 1 | | 1 | | | |
| 1.4 Lighting and E&M Installation | | | | | | | | | | | | | | 1 | |
| 1.5 Installation of escalators (PC3 to PC2) | | | | | | | | | | | | | | | |
| 1.6 Erection of steel roofing (PC3 to PC2) | | | | | | | | | | | | | | | |
| 1.7 Lighting & E&M installation | | | | | | | | | | | I | 1 | 1 | 1 | |
| 1.8 Construction of Sump Pit | | | 9 | 1 | • | | | | | | | | | | |
| .9 Backfill the existing slope | | | | | - | 1 | | | | | | | | | |
| 1.10 Construction of pillar box | | | | | | | | | | | | | | | |
| 1.11 Construction of cable duct & drawpits (Alarm & CCTV) | | | | | | | | 1 | 1 | 1 | | | | | |
| 1.12 Lay power supply cables to Pillar Box (By CLP) | | | | | | | | | - | | | | | | |
| 2.0 Portion 2 | | | - | | | | | | | | | | | | |
| 2.1 Installation of escalators | | 1 | | | | | | | | | | | | | |
| 2.2 Erection of steel roofing | | 1 | | | | | 1 | 1 | | | | | | | |
| 2.3 Lighting and E&M Installation | | | | | | | | | | | | | 1 | | |
| 2.4 Floor Finishing Work & PMMA Railing Installation | | | | | | | | | | | | | | | |
| 2.5 Lay ducting for power supply, CCTV signal to pillar box | | | | Ì | T | 1 | | 1 | | | | | | | |
| 2.6 Construction of pillar box | | | | | | | | | | | | | | | |
| 2.7 Construction of sump pit | | | | | | | | | | | | | | | |
| 2.8 Lay power supply cables to Pillar Box (By CLP) | | | | | | | | | | | | | - | | |
| 2.9 Construction of movement joint | | | | - | | | - | | | | | | | | |

Major Activities in Coming 3 Months

| Activity | Month | Oct 23 | | | Nov 23 | } | | | | Dec 23 | | | | Jan 24 | |
|---|-------|--------|---------|--------|--------|---------|---------|--------|-------|----------|---------|---------|-------|--------|---------|
| | Date | | 24 - 28 | 30 - 4 | 6 - 11 | 13 - 18 | 20 - 25 | 27 - 2 | 4 - 9 | 11 - 16 | 18 - 23 | 26 - 30 | 2 - 6 | 8 - 13 | 15 - 20 |
| 3.0 Portion 3 | | | | | | | | | | | | | | - | |
| 3.1 Excavation of pile cap at E7-PC1 | | | | | | | | | | | | | | | |
| 3.2 Construction of Pile Cap E7-PC1 | | | | | | | | | | | | | | | |
| 3.3 Construct 1st pour of E7 Lift Tower up to +69.5mPD | | | | | | | • | | | | | | | | |
| 3.4 Construct 2nd pour of E7 Lift Tower up to +71.95mPD | | | | | | | | | | | | | | | |
| 3.5 Construct 3rd pour of E7 Lift Tower up to +75.95mPD | | | | | | | | | | I | • | | | | |
| 3.6 Construct 4th pour of E7 Lift Tower up to +78.50mPD | | | | | | | | | | | | HS | | | |
| 3.7 Construct 5th pour of E7 Lift Tower up to +81.80mPD | | | | | | | | | | | | | | | |
| 3.8 Backfill of footing E7-F2 | | | 1 | | 1 | | I | | | | | | | | |
| 3.9 Construction of Pier at E7-P1 (2nd & 3rd pours) | | | | | | | | - | | 1 | | | | | |
| 3.10 Erect scaffolding system for Pier Head at E7-P1 | | | | | | | | | | | | 2 | • | | |
| 3.11 Construction of 4th pour & Pier Head at E7-P1 | | | | | | | | | | | | | | 1 | |
| 4.0 Portion 4 | | | | | | | | | | | | | | | |
| 4.1 Construction of 6th Pour of Lift Tower | | | | | | | | | | | | | | | |
| 4.2 Construction of 7th Pour of Lift Tower | | | | | | | | | | | | | | | |
| 4.3 Construction of 8th Pour of Lift Tower | | | | | | | | | | | | | | | |
| 4.4 Construction of 9th Pour of Lift Tower | | | | | | | | | | | | | | | |
| 4.5 Construction of 10th Pour of Lift Tower | | | | | | | | | | <u> </u> | | | | | |
| 4.6 Construction of 11th Pour of Lift Tower | | | | | | | | | | | | | - | | |
| 4.7 Construction of 12th Pour of Lift Tower | | | | | | | | | | | | | | | |
| 4.8 Excavation of footing E10-F2 | | F | | | 1 | | | | | | | | | | |
| 4.9 Construction of footing E10-F2 | | | | | | | | | | | | | | | |
| 4.10 Construction the 1st pour of pier E10-P1 | | | | | | | | | | | | 1 | | | |
| 4.11 Construction the 2nd pour of pier E10-P1 | | | | | | | | | | | | | | | |



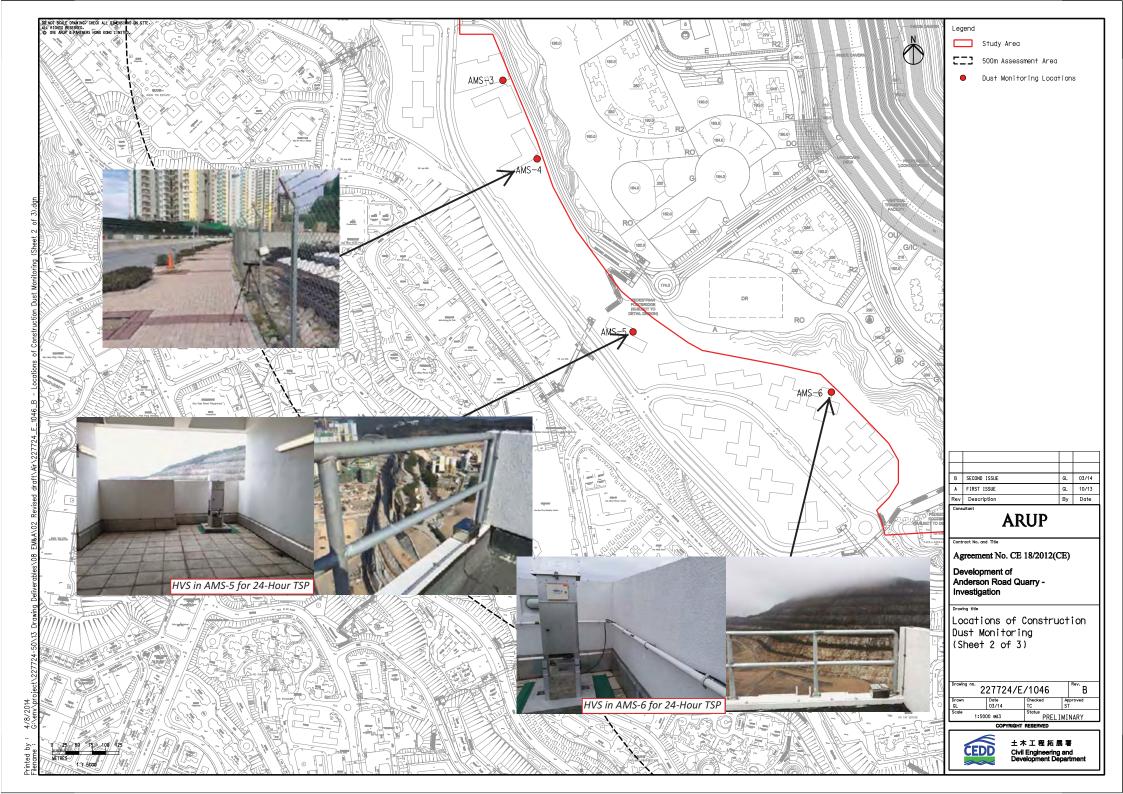
Appendix D

Monitoring Locations for Impact Monitoring

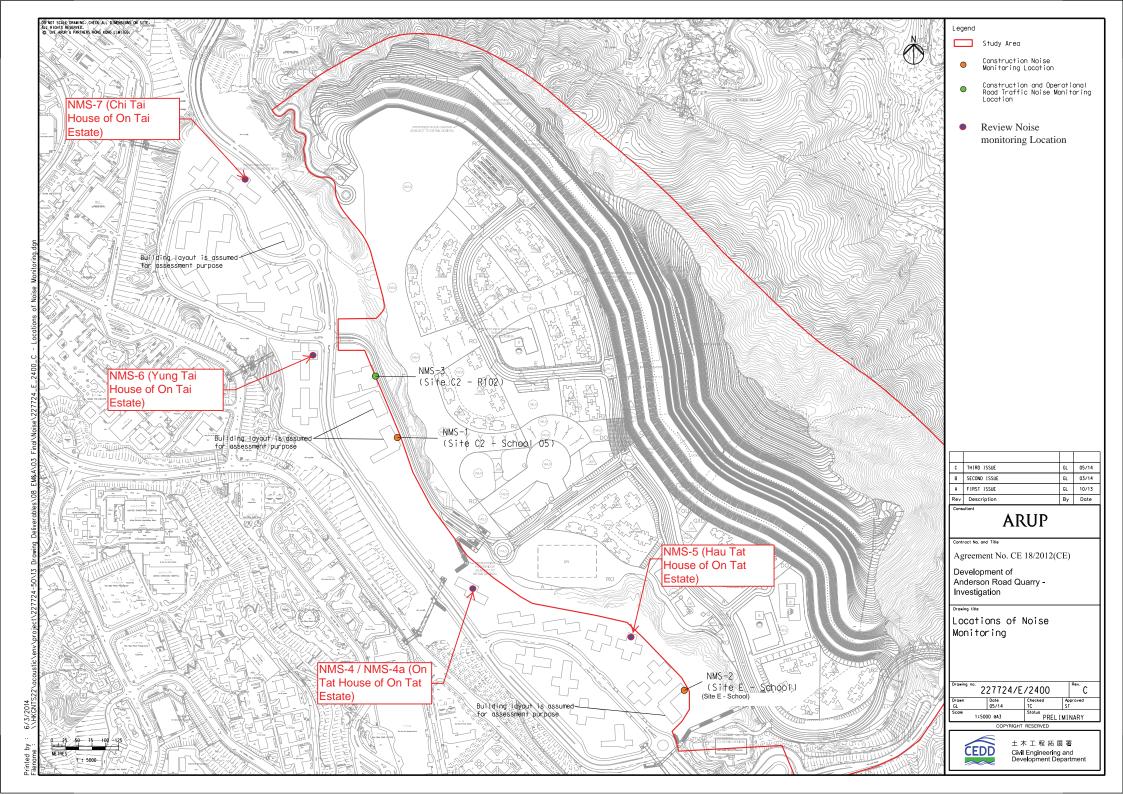


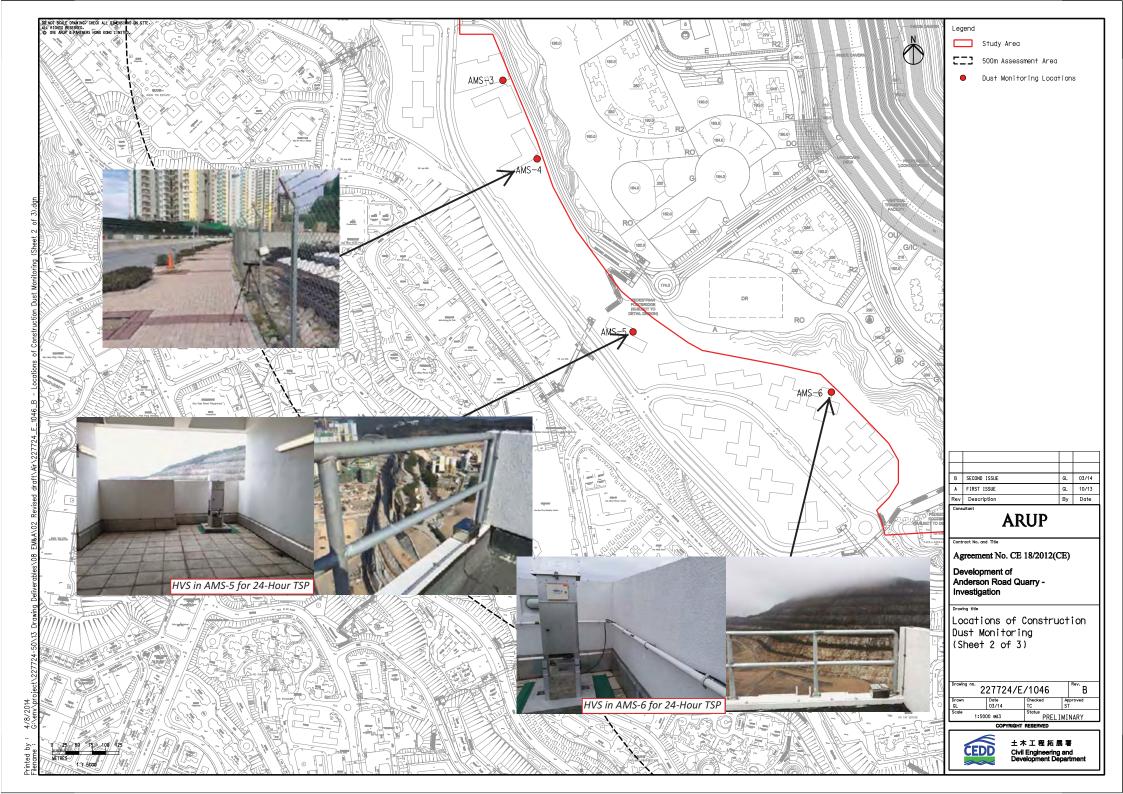
Monitoring Locations for Contract 1 (NE/2016/01)

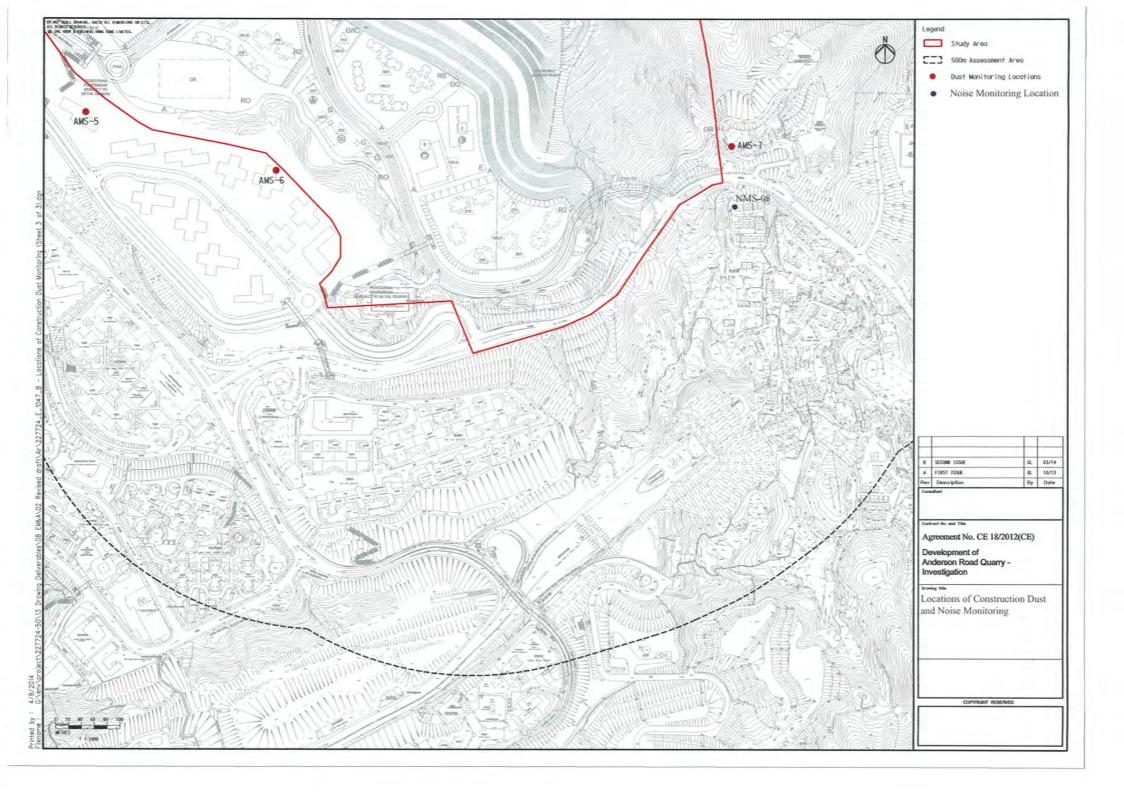






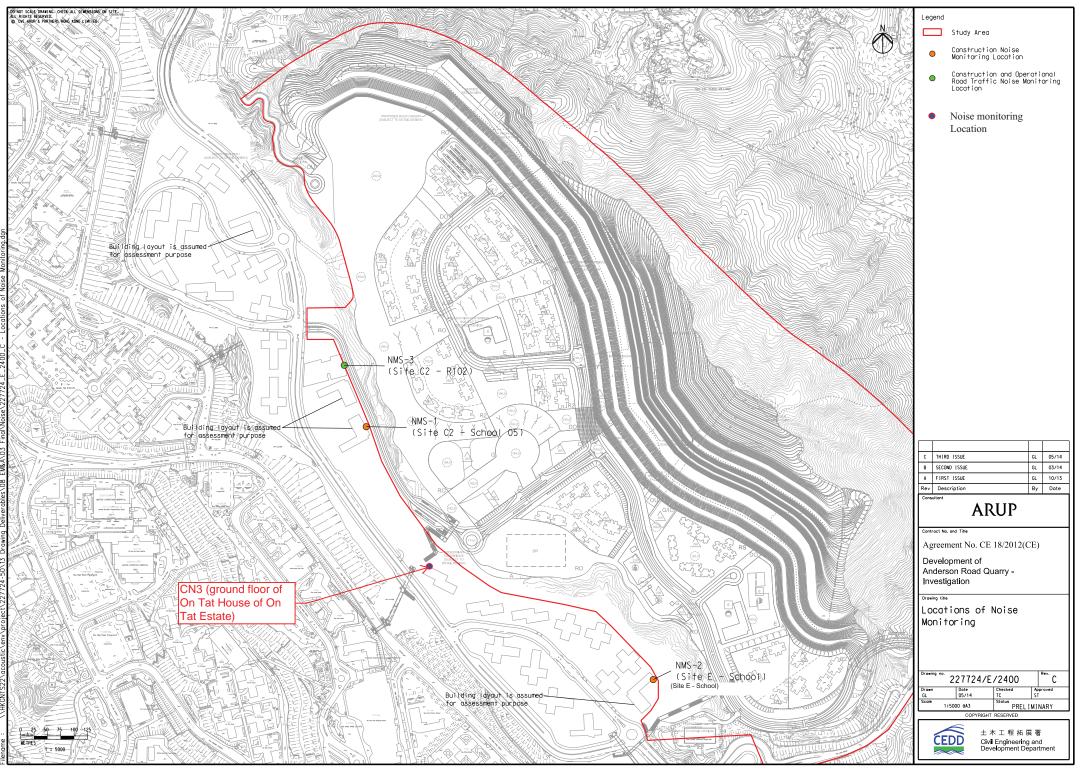






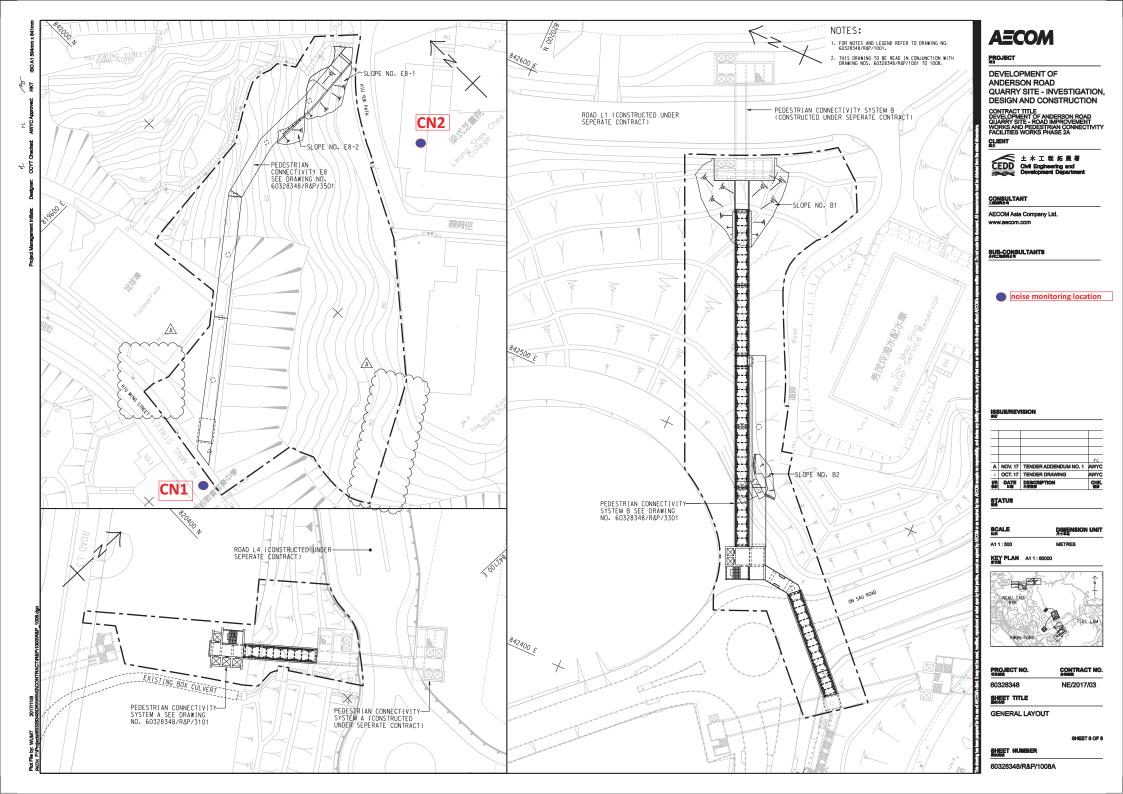


Monitoring Locations for Contract 3 (NE/2017/03)



inted by : 6/3/ ename : \\HK

2012





Appendix E

Calibration Certificate of Monitoring Equipment and HOKLAS-accreditation Certificate of the Testing Laboratory

| Location : | Tan Shan Y | Village No. | 5 - 6 | | | Date of C | Calibration: 28-Aug-23 |
|---|--------------|-------------|--------------|-------------|-----------|--|--------------------------------|
| Location I | D : | AMS1a | | | 1 | Next Calibra | ration Date: 28-Oct-23 |
| Model·TIS | CH High V | Volume Air | Sampler T | E-5170 | | Т | Technician: Mr. Fai So |
| 11104011110 | on mgn v | oranno i m | Sumpter 1 | 1 51/0 | CONDITIO | | |
| | | | | | CONDITIO | | |
| | | ~ - | | | | 7 | |
| | | Sea Leve | el Pressure | (hPa) | 1024 | | Corrected Pressure (mm Hg) 768 |
| | | Te | mperature | (°C) | 17.8 | | Temperature (K) 291 |
| | | | | - | | | |
| | | | | CALI | BRATION (| ORIFICE | |
| | | | | | | | |
| | | | | Make-> | TICCU | 1 | Qstd Slope -> 2.10977 |
| | | | | | | _ | |
| | | | | | TE-5025A | _ | Qstd Intercept -> -0.03782 |
| | | | | Serial # -> | 4064 | | |
| | | | | | | | |
| | | | | | CALIBRATI | ON | |
| | | | | | | | |
| Plate | H20 (L) | H2O (R) | H20 | Qstd | Ι | IC | LINEAR |
| No. | (in) | (in) | (in) | (m3/min) | (chart) | corrected | |
| 110. | 6.2 | 6.2 | 12.4 | 1.716 | 51 | 51.90 | Slope = 38.3215 |
| | | | | | | | * |
| 13 | 5.4 | 5.4 | 10.8 | 1.603 | 43 | 43.76 | Intercept = -16.1606 |
| 10 | 4.3 | 4.3 | 8.6 | 1.432 | 36 | 36.63 | Corr. coeff. = 0.9895 |
| 7 | 2.5 | 2.5 | 5 | 1.096 | 27 | 27.48 | |
| 5 | 1.7 | 1.7 | 3.4 | 0.907 | 18 | 18.32 | |
| | | | | | | | |
| Calculatio | ns : | | | | | | |
| Ostd = 1/m | n[Sqrt(H20) | (Pa/Pstd)(T | std/Ta))-bl | | | | |
| - | t(Pa/Pstd)(7 | . , . | 3tu/1u/) 0] | | | | FLOW RATE CHART |
| ic – iloqi | | [S(u/Ta)] | | | | ^{60.00} T | |
| <u> </u> | | | | | | | |
| - | ndard flow | | | | | | |
| IC = corrections | cted chart r | espones | | | | 50.00 - | |
| I = actual of | chart respor | ise | | | | | |
| m = calibr | ator Qstd sl | ope | | | | 6 | |
| | tor Qstd int | | | | | e 40.00 | |
| | l temperatu | | alibration (| (deg K) | | suo | |
| | al pressure | - | | | | esb | |
| 1 310 – 4010 | iai pressure | uuring can | | iiiii 11g) | | 1 30.00 | |
| F au au haa | | | | | | - 00.04 (IC) - 00.05 (IC) - 00.05 - 00 | |
| For subsequent calculation of sampler flow: | | | | | | tra | |
| 1/m((I)[S | qrt(298/Ta | v)(Pav/760) |)]-b) | | | ¥ 20.00 | |
| | | | | | | | |
| m = sampl | er slope | | | | | 40.00 | |
| b = sampl | er intercept | | | | | 10.00 - | |
| I = chart re | - | | | | | | |
| | y average te | mnarotura | | | | | |
| | | - | | | | 0.00 | 00 0.500 1.000 1.500 2.000 |
| Pav = daily | y average p | ressure | | | | | Standard Flow Rate (m3/min) |

| Location :Oi Tat HouseDate of Calibration:28-Aug-23Location ID :AMS 5Next Calibration Date:28-Oct-23 | | | | | | | | ration Date: 28-Oct-23 | | |
|--|--|--|--|----------------------------------|------|--|-----------------|---|--|--|
| Model:TIS | SCH Higl | n Volum | e Air Sa | mpler TE-5 | | COND | | Technician: Mr. Fai So | | |
| | Se | a Level I Temp | Pressure perature | . , | | 1024 17.8 | | Corrected Pressure (mm Hg) 768 Temperature (K) 291 | | |
| | CALIBRATION ORIFICE | | | | | | | | | |
| Make-> TI Model-> TF Serial # -> 40 | | | | | TE-5 | 5025A Qstd Intercept -> | | | | |
| | | | | | (| CALIBI | RATION | | | |
| Plate No. | H20 (L) (in) | H2O (R) (in) | H20 (in) | Qstd (m3/min) | (c) | I hart) | IC corrected | LINEAR REGRESSION | | |
| 18 13 10 7 5 | 6.3 5.4 4 2.6 | 6.3 5.4 4 2.6 | 12.6 10.8 8 5.2 | 1.730 1.603 1.382 1.118 | | 55 55.97 Slope = | | Slope = 45.4856 Intercept = -23.6283 | | |
| Qstd = 1/r $IC = I[Sqn$ $Qstd = sta$ $IC = correc$ $I = actual$ $m = calibra$ $Ta = actua$ $Pstd = act$ $For subse$ $1/m((I)[Sm = samp$ $b = samp$ $I = chart r$ | 7 2.6 2.6 5.2 1.118 | | | | | 0.06 50.05 0.05 (C) 0.05 0.02 0.0 | | FLOW RATE CHART | | |
| IC = correct I = actual m = calibrat Ta = actua Pstd = act For subsect 1/m((I)[S m = samp b = samp | ected char chart resp rator Qstd ator Qstd al tempera ual pressu equent ca Sqrt(298/ ler slope ler interco esponse ly average | t respond ponse l slope intercep ature durin alculatio Γav)(Pav ept e temper | t ting calil g calibr; n of san (760)]-b ature | ation (mm] | | Actual Chart 1 20.0 | | | | |

| - | | | | | | | | | | | | | |
|---|------------|-----------|-----------|---------------|---|--------------------------------|--------------|------------------------|-----------|-------------|--------|--------|----------|
| Location | : Ha | u Tat Ho | ouse | | | Date of Calibration: 28-Aug-23 | | | | | | | |
| Location 2 | ID : | AMS 6 | | | | N | Jext Calibra | ation Date: | 28-C |)ct-23 | | | |
| Model:TI | SCH Hig | h Volum | e Air Sa | mpler TE-51 | 70 | | Τ | echnician: | Mr. Fa | u So | | | |
| | | | | | CC | NDIT | IONS | | | | | | |
| | | | | _ | | | | | | | | | |
| | Se | a Level I | Pressure | (hPa) | | 1024 | | Correc | cted Pre | essure (m | ım Hg) | 7 | 768 |
| | | Temp | perature | (°C) | | 17.8 | | | Tempe | rature (K |) | 2 | 291 |
| | | | | | | | | | | | | | |
| | | | | C | ALIBR | ATIO | N ORIFICE | | | | | | |
| | | | | F | | | | | | | | | |
| | | | | Make->' | | | | | 2std Slo | - | | 2.109 | |
| | | | | Model-> | | 25A | | Qsto | l Interco | ept -> | | -0.037 | '82 |
| | | | | Serial # -> 4 | 1064 | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | CA | LIBRA | ATION | | | | | | |
| Plate | H20 (L) | H2O (R) | H20 | Qstd | Ι | | IC | | | LINEAF | 2 | | |
| No. | (in) | (in) | (in) | (m3/min) | (cha | | corrected | | RF | EGRESSI | | | |
| 18 | 6.4 | 6.4 | 12.8 | 1.744 | 54 | ć | 54.95 | | | ope = 4 | | 1 | |
| 13 | 5.2 | 5.2 | 10.4 | 1.573 | 44 | | 46.00 | Intercept = -24.8804 | | | | | |
| 10 | 3.6 | 3.6 | 7.2 | 1.312 | 34 | | 34.60 | Corr. coeff. = 0.9985 | | | | | |
| 7 | 2.4 | 2.4 | 4.8 | 1.075 | 25 | | 25.44 | | | | | | |
| 5 | 1.5 | 1.5 | 3 | 0.853 | 13 | | 13.23 | | | | | | |
| | 110 | 110 | U | 0.0000 | | | 10120 | | | | | | |
| Calculatio | ons : | | | | | | | FL OV | | CHART | | | |
| Qstd = 1/1 | n[Sqrt(H | 20(Pa/Ps | std)(Tstd | /Ta))-b] | | 60.0 | 0 | | | UTAN | | | 1 |
| IC = I[Squ | rt(Pa/Pstc | l)(Tstd/T | 'a)] | | | | | | | | | • | |
| | | | | | | | _ | | | | | | |
| Qstd = sta | indard flo | ow rate | | | | 50.0 | 0 | | | | / | / | - |
| IC = corrections | ected cha | rt respon | es | | | | | | | | | | |
| I = actual | chart res | ponse | | | 2 | 2 40.0 | 0 | | | | | | |
| m = calibi | rator Qsta | d slope | | | | | - | | | / | / | | |
| b = calibr | ator Qstd | intercep | t | | | | | | | <u>/</u> | | | |
| Ta = actua | al temper | ature dui | ring cali | bration (deg | K | 30.0 | 0 | | | _/_ | | | - |
| Pstd = act | ual press | ure durin | ng calibr | ation (mm H | K Ig) Ig | | | | | • | | | |
| | | | | | | | 0 | | | / | | | |
| For subsequent calculation of sampler flow: | | | | | | 20.0 | 0 | | | | | | - |
| 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) | | | | | | | | | | | | | |
| | | | | | | 10.0 | o 🗕 — — | | - | | | | - |
| m = samp | ler slope | | | | | | | | | | | | |
| b = sampler intercept | | | | | | | | | | | | | |
| I = chart r | esponse | | | | | 0.0 | 0.000 | 0.500 | 1.0 | 20 | 1.500 | | _ 000 |
| Tav = dai | ly averag | e temper | ature | | | | 0.000 | | | ate (m3/mir | | 2.0 | ,00 |
| Pav = dail | ly averag | e pressur | e | | | | | | | | | | |
| I | | | | | | | | | | | | | |

| Location: Ma Yau Tong Village | | | | | | | Date of (| alibration. | 28-Aug-23 | | |
|---|---------------------|-------------|-----------|------------------------|--------|--------------------------|-----------|-----------------|---------------------------|--------------------------|----------|
| Location I | | AMS 7 | v mage | | | | | ation Date: | - | | |
| | | | e Air Sa | mpler TE-5 | 170 | 1.00 | | | Mr. Fai So | | |
| | 0 | | | | | NDITI | | | | | |
| | | | | | | | | | | | |
| | Se | a Level I | Pressure | (hPa) | 1 | 024 | | Correc | cted Pressure | (mm Hg) | 768 |
| | | Temp | erature | (°C) | 1 | 17.8 | | | Temperature | (K) | 291 |
| | | | | | | | | | | | |
| | | | | C | CALIBR | ATION | | E | | | |
| | | | | | maan | | | | 1. 01 | | 0.10077 |
| | | | | Make-> | | | | | std Slope -> | | 2.10977 |
| | | | | Model-> Serial # -> | | ZJA | | Qstu | Intercept -> | | -0.03782 |
| | | | | Sellal # -> | 4004 | | | | | | |
| | | | | | CAL | LIBRA | TION | | | | |
| Plate | | H2O (R) | H20 | Qstd | I | | IC | | LINE | TA D | |
| No. | (in) | (in) | (in) | (m3/min) | (char | t) (| corrected | | REGRE | | |
| 18 | 6.5 | 6.5 | 13 | 1.757 | 55 | | 55.97 | | Slope = | | |
| 13 | 5.4 | 5.4 | 10.8 | 1.603 | 48 | | 48.85 | | Intercept = | | |
| 10 | 4.0 | 4.0 | 8 | 1.382 | 35 | | 35.62 | - | | | |
| 7 | 2.8 | 2.8 | 5.6 | 1.159 | 29 | | 29.51 | | | | |
| 5 | 1.7 | 1.7 | 3.4 | 0.907 | 18 | | 18.32 | | | | |
| <i></i> | | | | | | | | | | | |
| | - | 20(Do/Do | +d)(Tatd | /፹ | ſ | | | | | | |
| Qstd = 1/r IC = I[Sqr | | | | [a))-0] | | 60.00 FLOW RATE CHART | | | | | |
| IC – I[541 | 1(1 / 1 / 1 / 1 / 1 |)(15tu/1 | a)] | | | | | | | | • |
| Qstd = sta | ndard flo | w rate | | | | 50 | .00 | | | | , |
| IC = correction | | | es | | | | .00 | | | 1 | |
| I = actual | chart resp | ponse | | | | | | | | X | |
| m = calibr | ator Qstc | l slope | | | | <u>ව</u> 40 | .00 | | | | |
| b = calibra | - | - | | | | suo | | | | / • | |
| | - | | _ | pration (deg | | 8 30 | .00 | | / | | |
| Pstd = act | ual pressi | ure durin | g calibra | ation (mm) | Hg) | Actual chart response (I | | | | | |
| For subse | auont or | loulatio | n of com | nlor flow: | | | .00 | | | | |
| For subsequent calculation of sampler flow: 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) | | | | | | Act | | | ◆ | | |
| 1/111((1)[. | 941(270/ | 1 av)(1 av | //00/]-t |) | | | | | | | |
| m = samp | ler slope | | | | | 10 | .00 | | | | |
| b = samp | - | ept | | | | | | | | | |
| I = chart r | | - | | | | 0 | .00 .000 | 0.500 | 1 000 | 1 500 | |
| Tav = dail | - | e temper | ature | | | | 0.000 | 0.500 Standa | 1.000 ard Flow Rate (m | 1.500 1 3/min) | 2.000 |
| Pav = dail | y average | e pressur | e | | | | | | | | |
| | | | | | | | | | | | |



RECALIBRATION DUE DATE:

December 15, 2023

nmental Certificate of Calibration

| - 1 - | | | Calibration | | | | | 017 | *approximation |
|--------------|-----------|------------------------------|--|---|---|------------------|-------------------|----------|----------------|
| Cal. Date: | December | 15, 2022 | Roots | meter S/N: | 438320 | Ta: | 295 | °K | |
| Operator: | Jim Tisch | | | | | Pa: 748.0 | | mm Hg | 1 |
| Calibration | Model #: | TE-5025A | Calil | prator S/N: | 4064 | | | | 1 |
| | | Vol. Init | Vol. Final | ΔVol. | ΔTime | ΔΡ | ΔΗ | 1 | × |
| | Run | (m3) | (m3) | (m3) | (min) | (mm Hg) | (in H2O) | | |
| | 1 | 1 | 2 | 1 | 1.4430 | 3.2 | 2.00 | | |
| | 2 | 3 | 4 | 1 | 1.0210 | 6.4 | 4.00 | 1 | |
| | 3 | 5 | 6 | 1 | 0.9170 | 7.9 | 5.00 | | |
| | 4 | 7 | 8 | 1 | 0.8730 | 8.8 | 5.50 | 1 | |
| | 5 | 9 | 10 | 1 | 0.7210 | 12.8 | 8.00 |] | |
| | - | | | Data Tabula | tion | |)' | 1 | |
| | | | | V Total V | | | | 1 | |
| | Vstd | Qstd | $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$ |)(<u>Tstd</u>) | | Qa | √∆H(Ta/Pa) | | |
| | (m3) | (x-axis) | (y-ax | is) | Va | (x-axis) | (y-axis) | | |
| | 0.9900 | 0.6861 | 1.41 | 01 | 0.9957 | 0.6900 | 0.8881 | .] | |
| | 0.9858 | 0.9655 | 1.99 | | 0.9914 | 0.9711 | 1.2560 | - | |
| | 0.9838 | 1.0728 | 2.22 | | 0.9894 | 1.0790 | 1.4042 | - | |
| | 0.9826 | 1.1255 | 2.33 | | 0.9882 | 1.1320 | 1.4728 | - | |
| | 0.9772 | 1.3554 | 2.82 | | 0.9829 | 1.3632 | 1.7762 | - | |
| | OCTD | m= b= | -0.03 | All source into party or construction of the second | 0.4 | m= b= | 1.32110 | - | |
| | QSTD | r= | 0.999 | | QA | r= | 0.99998 | - | |
| | | | ana da kana da | Calculatio | ns | | | ī | |
| | Vstd= | ΔVol((Pa-ΔP) | /Pstd)(Tstd/T | | procession of the second se | ΔVol((Pa-Δ | P)/Pa) | 1 | |
| | Qstd= | Vstd/∆Time | | | the second se | Va/∆Time | | 1 | |
| | | | For subsequ | ent flow ra | te calculatio | ns: | |] | |
| | Qstd= | 1/m ((√∆H(| Pa <u>Tstd</u> Pstd Ta | -))-b) | Qa= | 1/m ((√∆ł | H(Ta/Pa))-b) | | |
| | Standard | Conditions | | | | | | _ | |
| Tstd | | | | | | RECA | LIBRATION | | |
| Pstd | | mm Hg | | | LIS EDA rocc | ommende o | nnual recalibrati | on por 1 | 202 |
| | | (ey ter reading (i | n H2O) | | | | Regulations Part | - | |
| | | eter reading (i | | | | | , Reference Met | | |
| | | perature (°K) | | | | | ended Particulat | | |
| | | ressure (mm | | | | - | ere, 9.2.17, page | | 111 |
| b: intercept | t | | | | u u | слатоэри | | 50 | |
| m: slope | | | | | | | | | |

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

| CONTACT | : MR BEN TAM | WORK ORDER HK2311530 |
|---------|---|-----------------------------|
| CLIENT | : ACTION-UNITED ENVIRONMENTAL | |
| | SERVICES & CONSULTING | |
| ADDRESS | : RM A 20/F., GOLD KING IND BLDG, NO. 35-41 | SUB-BATCH : 1 |
| | TAI LIN PAI ROAD, KWAI CHUNG, N.T. | DATE RECEIVED : 23-MAR-2023 |
| | | DATE OF ISSUE : 30-MAR-2023 |
| PROJECT | : | NO. OF SAMPLES : 1 |
| | | CLIENT ORDER : |

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the • item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

| Signatories | Position | |
|---------------|-------------------|--|
| Richard Juny. | | |
| Richard Fung | Managing Director | |
| | | |

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2311530

11/2311330

¹ 1 2 ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING 2 ----



| ALS Lab ID | Client's Sample ID | Sample Type | Sample Date | External Lab Report No. |
|---------------|--------------------|----------------|-------------|-------------------------|
| HK2311530-001 | S/N: 3Y6502 | AIR | 23-Mar-2023 | S/N: 3Y6502 |

Equipment Verification Report (TSP)

Equipment Calibrated:

| Туре: | Laser Dust monitor |
|----------------|--------------------|
| Manufacturer: | Sibata LD-3B |
| Serial No. | 3Y6502 |
| Equipment Ref: | EQ113 |

Standard Equipment:

Verification Date:

| Standard Equipment: | Higher Volume Sampler (TSP) |
|-------------------------|------------------------------------|
| Location & Location ID: | AUES office (calibration room) |
| Equipment Ref: | HVS 018 & HVS 019 |
| Last Calibration Date: | 27 February 2023 & 10 January 2023 |

Equipment Verification Results:

6 & 9 March 2023

| Date | Hour | Time | Mean Temp °C | Mean Pressure (hPa) | Concentration in ug/m ³ (Standard Equipment) | Total Count (Calibrated Equipment) | Count/Minute (Total Count/min) |
|-----------|-----------|---------------|--------------------|---------------------------|--|--|--------------------------------------|
| 6-Mar-23 | 2hr01mins | 09:35 ~ 11:36 | 20 | 1022.4 | 82.5 | 4537 | 37.6 |
| 6-Mar-23 | 2hr01mins | 11:43 ~ 13:44 | 20 | 1022.4 | 29.5 | 2117 | 17.5 |
| 6-Mar-23 | 2hr11mins | 13:45 ~ 15:56 | 20 | 1022.4 | 30.4 | 2306 | 17.6 |
| 9-Mar-23* | 61mins | 11:03 ~ 12:04 | 22.5 | 1017.7 | 144 | 4408 | 72.7 |
| 9-Mar-23* | 61mins | 12:06 ~ 13:07 | 22.5 | 1017.7 | 116 | 3761 | 61.5 |

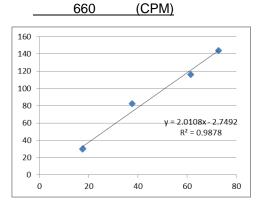
(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 655 (CPM)

Linear Regression of Y or X

Slope (K-factor): Correlation Coefficient (R)

2.0108 (µg/m³)/CPM 0.9939 20 March 2023



Remarks:

Date of Issue

1. **Strong** Correlation (R>0.8)

2. Factor 2.0108 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

| Operator : | Fai So | Signature : | Ja | Date : | 20 March 2023 |
|---------------|---------|---------------|----|--------|---------------|
| QC Reviewer : | Ben Tam | Signature : _ | | Date : | 20 March 2023 |

| Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH | Orrected Pressure (mm Hg)768Temperature (K)291Qstd Slope ->2.10977Qstd Intercept ->-0.03782 |
|--|---|
| Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH Model-> 5025A | Temperature (K) 291 Qstd Slope -> 2.10977 |
| Make-> TISCH Model-> 5025A | |
| Model-> 5025A | |
| | Expiry Date-> 15-Dec-23 |
| CALIBRATION | |
| PlateH20 (L)H2O (R)H20QstdIICNo.(in)(in)(m3/min)(chart)corrected | LINEAR REGRESSION |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Slope = 32.9819 Intercept = 0.0741 Corr. coeff. = 0.9968 |
| Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (deg K) Pstd = actual pressure during calibration (mm Hg) For subsequent calculation of sampler flow: 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response | FLOW RATE CHART |

| Location : Gold King Industrial Building, Ky Location ID : Calibration Room(HVS 019) | | | | | | | ung | | Date of Calibration: 10-Jan-23 Next Calibration Date: 9-Apr-23 | | | |
|--|-------------------------------|-------------------------------|----------------------------------|---|-------------|-----------------------|---|---|---|--|--|--|
| | | | | | | COND | ITIONS | | | | | |
| Sea Level Pressure (hPa) 10 Temperature (°C) | | | | | | <u>018.8</u> 18.2 | | Corrected Pressure (mn Temperature (K) | n Hg) 764.1 291 | | | |
| | | | | | CALI | BRATI | ON ORIFIC | E | | | | |
| Make-> TIS Model-> 502 Calibration Date-> 15-De | | | | | | 25A | | Qstd Slope -> Qstd Intercept -> Expiry Date-> | 2.10977 -0.03782 15-Dec-23 | | | |
| | | | | | C | CALIBI | RATION | | - | | | |
| Plate No. | H20 (L) (in) | H2O (R) (in) | H20 (in) | Qstd (m3/min) | (ch | I art) | IC corrected | LINEAR REGRESSI | | | | |
| 18 13 10 8 5 | 6 4.9 3.9 2.4 1.5 | 6 4.9 3.9 2.4 1.5 | 12.0 9.8 7.8 4.8 3.0 | 1.683 1.523 1.361 1.071 0.851 | 4 4 3 | 5 8 4 6 8 | 55.79 48.69 44.63 36.52 28.40 | Intercept = | 31.4802 1.9499 0.9967 | | | |
| Calculations : Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (deg K) Pstd = actual pressure during calibration (mm Hg) For subsequent calculation of sampler flow: 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response | | | | .00 .02 .02 .02 .02 .02 .01 .01 .01 | 00 | FLOW RATE CHART | 1.500 2.000 | | | | | |
| Tav = dail Pav = dail | | - | | | | [| | | | | | |



RECALIBRATION DUE DATE:

December 15, 2023

nmental Certificate of Calibration

| | | | Calibration | Certificatio | on Informat | ion | | | | |
|--|--|----------------------------------|--|--|--|--|--------------------------|---------------|-----|--|
| Cal. Date: | December 15, 2022 Roots | | | meter S/N: | 438320 | Ta: | Ta: 295 | | °K | |
| Operator: | Jim Tisch | | | | | Pa: | 748.0 | mm Hg | | |
| Calibration | Model #: | TE-5025A | Calik | orator S/N: | 4064 | | | | x. | |
| | | Vol. Init | Vol. Final | ΔVol. | ΔTime | ΔΡ | ΔH | 1 | Ň | |
| | Run | (m3) | (m3) | (m3) | (min) | (mm Hg) | (in H2O) | | | |
| | 1 | 1 | 2 | 1 | 1.4430 | 3.2 | 2.00 | 1 | | |
| | 2 | 3 | 4 | 1 | 1.0210 | 6.4 | 4.00 | 1 | | |
| | 3 | 5 | 6 | 1 | 0.9170 | 7.9 | 5.00 |] | | |
| | 4 | 7 | 8 | 1 | 0.8730 | 8.8 | 5.50 | | | |
| | 5 | 9 | 10 | 1 | 0.7210 | 12.8 | 8.00 | | | |
| | ~ | | E | Data Tabula | tion | | / |] | | |
| | Vstd | Qstd | $\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right)}$ |)(<u>Tstd</u>) | | Qa | $\sqrt{\Delta H(Ta/Pa)}$ | | | |
| | (m3) | (x-axis) | (y-ax | is) | Va | (x-axis) | (y-axis) | | | |
| | 0.9900 | 0.6861 | 1.41 | 01 | 0.9957 | 0.6900 | 0.8881 | 1 | | |
| | 0.9858 | 0.9655 | 1.994 | 43 | 0.9914 | 0.9711 | 1.2560 |] | | |
| | 0.9838 | 1.0728 | 2.22 | and the second se | 0.9894 | 1.0790 | 1.4042 | - | | |
| | 0.9826 | 1.1255 | 2.33 | | 0.9882 | 1.1320 | 1.4728 | - | | |
| | 0.9772 | 1.3554 | 2.82 | | 0.9829 | 1.3632 | 1.7762 | - | | |
| | OCTD | m= | 2.109 | All south in the second s | | m= | | - | | |
| | QSTD | b= r= | -0.03782 0.99998 | | QA | b= r= | | _ | | |
| | | | 0.000 | | | 1- | 0.55550 | <u>ן</u> ר | | |
| | Vetel | |)/Pstd)(Tstd/Ta | Calculations) Va= ΔVol((Pa-ΔP)/Pa) | | | | | | |
| | And and and and and an and a | Vstd/ Δ Time | //PSta)(TSta/Ta | d) | Construction of the Address of the Addre | $\Delta voi((Pa-\Delta Va/\Delta Time))$ | P)/Pa) | - | | |
| | Qstu- | vstu/Annie | For subcoru | unt flow ra | | | | - | | |
| | | // [| | ent flow rate calculations: | | | | - | | |
| | | 1/m((√∆H(| Pa <u>Tstd</u> Pstd Ta | -))-ь) | Qa= | 1/m ((√∆I | H(Ta/Pa))-b) | | | |
| | | Conditions | | | | | | | | |
| Tstd: | | | | | | RECA | LIBRATION | | | |
| Pstd: | | mm Hg | | | US EPA reco | ommends a | nnual recalibrati | on per 1 | 998 | |
| Key ΔH: calibrator manometer reading (in H2O) | | | | | US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, | | | | | |
| | | eter reading | | | | | - | | | |
| | ctual absolute temperature (°K) | | | | Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in | | | | | |
| | | tual barometric pressure (mm Hg) | | | | | | | | |
| | arometric p | ressure (mm | Hg) | | th | e Atmosph | ere, 9.2.17, page | 30 | | |

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

| CONTACT | : MR BEN TAM | WORK ORDER HK2311531 |
|---------|---|-----------------------------|
| CLIENT | : ACTION-UNITED ENVIRONMENTAL | |
| | SERVICES & CONSULTING | |
| ADDRESS | : RM A 20/F., GOLD KING IND BLDG, NO. 35-41 | SUB-BATCH : 1 |
| | TAI LIN PAI ROAD, KWAI CHUNG, N.T. | DATE RECEIVED : 23-MAR-2023 |
| | | DATE OF ISSUE : 30-MAR-2023 |
| PROJECT | : | NO. OF SAMPLES : 1 |
| | | CLIENT ORDER |

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the • item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

| Signatories | Position | |
|---------------|-------------------|--|
| Richard Juny. | | |
| Richard Fung | Managing Director | |
| | | |

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2311531

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING : ----



 ALS Lab
 Client's Sample ID
 Sample
 Sample Date
 External Lab Report No.

 ID
 Type
 ID
 ID
 ID
 ID
 ID

 HK2311531-001
 S/N: 456658
 AIR
 23-Mar-2023
 S/N: 456658

Equipment Verification Report (TSP)

Equipment Calibrated:

| Туре: | Laser Dust monitor |
|----------------|--------------------|
| Manufacturer: | Sibata LD-3B |
| Serial No. | 456658 |
| Equipment Ref: | EQ115 |

Standard Equipment:

Verification Date:

| Standard Equipment: | Higher Volume Sampler (TSP) |
|-------------------------|------------------------------------|
| Location & Location ID: | AUES office (calibration room) |
| Equipment Ref: | HVS 018 & HVS 019 |
| Last Calibration Date: | 27 February 2023 & 10 January 2023 |

Equipment Verification Results:

6 & 9 March 2023

| Date | Hour | Time | Mean Temp °C | Mean Pressure (hPa) | Concentration in ug/m ³ (Standard Equipment) | Total Count (Calibrated Equipment) | Count/Minute (Total Count/min) |
|-----------|-----------|---------------|--------------------|---------------------------|--|--|--------------------------------------|
| 6-Mar-23 | 2hr01mins | 09:35 ~ 11:36 | 20 | 1022.4 | 82.5 | 4485 | 37.2 |
| 6-Mar-23 | 2hr01mins | 11:43 ~ 13:44 | 20 | 1022.4 | 29.5 | 2128 | 17.6 |
| 6-Mar-23 | 2hr11mins | 13:45 ~ 15:56 | 20 | 1022.4 | 30.4 | 2267 | 17.3 |
| 9-Mar-23* | 61mins | 11:03 ~ 12:04 | 22.5 | 1017.7 | 144 | 4263 | 70.3 |
| 9-Mar-23* | 61mins | 12:06 ~ 13:07 | 22.5 | 1017.7 | 116 | 3667 | 59.9 |

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 702 (CPM)

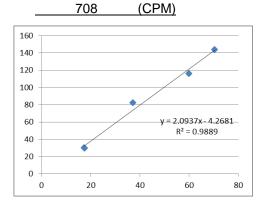


Slope (K-factor): Correlation Coefficient (R)

Date of Issue

0.9944 20 March 2023

2.0937 (µg/m³)/CPM



Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor 2.0937 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

| Operator : | Fai So | Signature : | Ja | Date : | 20 March 2023 |
|---------------|---------|---------------|----|--------|---------------|
| QC Reviewer : | Ben Tam | Signature : _ | | Date : | 20 March 2023 |

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

| Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH | orrected Pressure (mm Hg)768Temperature (K)291Qstd Slope ->2.10977Qstd Intercept ->-0.03782 |
|--|---|
| Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH Model-> 5025A | Temperature (K) 291 Qstd Slope -> 2.10977 |
| Make-> TISCH Model-> 5025A | |
| Model-> 5025A | |
| | Expiry Date-> 15-Dec-23 |
| CALIBRATION | |
| PlateH20 (L)H2O (R)H20QstdIICNo.(in)(in)(m3/min)(chart)corrected | LINEAR REGRESSION |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Slope = 32.9819 Intercept = 0.0741 Corr. coeff. = 0.9968 |
| Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (deg K) Pstd = actual pressure during calibration (mm Hg) For subsequent calculation of sampler flow: 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response | FLOW RATE CHART |

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

| Location :Gold King Industrial Building, Kwai ChurLocation ID :Calibration Room(HVS 019) | | | | | | | | Date of Calibration: 10-Jan-23 Next Calibration Date: 9-Apr-23 |
|--|--|--|---|---|------------------|---|---|---|
| | | | | | | COND | ITIONS | |
| | Se | a Level I Temp | Pressure erature | . , | 1 | 018.8 18.2 | | Corrected Pressure (mm Hg) 764.1 Temperature (K) 291 |
| | | | | | CALI | BRATI | ON ORIFIC | CE |
| Make-> TIS Model-> 502 Calibration Date-> 15-D | | | | | | | | Qstd Slope ->2.10977Qstd Intercept ->-0.03782Expiry Date->15-Dec-23 |
| | | | | | C | CALIB | RATION | |
| Plate No. | H20 (L) (in) | H2O (R) (in) | H20 (in) | Qstd (m3/min) | | [art) | IC corrected | LINEAR REGRESSION |
| 18 13 10 8 5 | 6 4.9 3.9 2.4 1.5 | 6 4.9 3.9 2.4 1.5 | 12.0 9.8 7.8 4.8 3.0 | 1.683 1.523 1.361 1.071 0.851 | 5 4 4 3 | 5 8 | 55.79 48.69 44.63 36.52 28.40 | Slope = 31.4802 Intercept = 1.9499 Corr. coeff. = 0.9967 |
| Pstd = actu For subse 1/m((I)[S m = sampl b = sampl I = chart re | n[Sqrt(H t(Pa/Pstc ndard flo cted cha chart res ator Qstd tor Qstd l temper ual press quent ca qrt(298/ er slope er interc esponse | d)(Tstd/T ow rate rt respon ponse d slope intercep ature durin ure durin alculation Tav)(Pav | a)] es t ting cali g calibr n of san t/760)]-t | bration (de ation (mm apler flow: | | 00 90 90 90 90 90 90 90 90 90 90 90 90 9 | 0.00 0.00 0.00 0.00 0.00 0.000 | FLOW RATE CHART |
| Tav = dail Pav = dail | | | | | | <u> </u> | | |



RECALIBRATION DUE DATE:

December 15, 2023

nmental Certificate of Calibration

| - 1 - | | | Calibration | | | | | 017 | |
|--------------|-----------|------------------------------|--|---|---|-----------|-------------------|----------|-----|
| Cal. Date: | December | | | | | Ta: | 295 | °K | |
| Operator: | Jim Tisch | | | F | | | 748.0 | mm Hg | 1 |
| Calibration | Model #: | TE-5025A | Calil | prator S/N: | 4064 | | | | 1 |
| | | Vol. Init | Vol. Final | ΔVol. | ΔTime | ΔΡ | ΔΗ | 1 | × |
| | Run | (m3) | (m3) | (m3) | (min) | (mm Hg) | (in H2O) | | |
| | 1 | 1 | 2 | 1 | 1.4430 | 3.2 | 2.00 | | |
| | 2 | 3 | 4 | 1 | 1.0210 | 6.4 | 4.00 | 1 | |
| | 3 | 5 | 6 | 1 | 0.9170 | 7.9 | 5.00 | | |
| | 4 | 7 | 8 | 1 | 0.8730 | 8.8 | 5.50 | 1 | |
| | 5 | 9 | 10 | 1 | 0.7210 | 12.8 | 8.00 |] | |
| | - | | | Data Tabula | tion | |)' | 1 | |
| | | | | V Total V | | | | 1 | |
| | Vstd | Qstd | $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$ |)(<u>Tstd</u>) | | Qa | √∆H(Ta/Pa) | | |
| | (m3) | (x-axis) | (y-ax | is) | Va | (x-axis) | (y-axis) | | |
| | 0.9900 | 0.6861 | 1.4101 | | 0.9957 | 0.6900 | 0.8881 | .] | |
| | 0.9858 | 0.9655 | 1.9943 | | 0.9914 | 0.9711 | 1.2560 | - | |
| | 0.9838 | 1.0728 | 2.22 | | 0.9894 | 1.0790 | 1.4042 | - | |
| | 0.9826 | 1.1255 | 2.33 | | 0.9882 | 1.1320 | 1.4728 | - | |
| | 0.9772 | 1.3554 | 2.82 | | 0.9829 | 1.3632 | 1.7762 | - | |
| | OCTD | m= b= | -0.03 | All source into party or construction of the second | 0.4 | m= b= | 1.32110 | - | |
| | QSTD | r= | 0.999 | | QA | r= | 0.99998 | - | |
| | | | ana da kana da | Calculatio | ns | | | ī | |
| | Vstd= | ΔVol((Pa-ΔP) | /Pstd)(Tstd/T | | | | | | |
| | Qstd= | Vstd/∆Time | | | the second se | Va/∆Time | | 1 | |
| | | | For subsequ | ent flow ra | te calculatio | ns: | |] | |
| | Qstd= | 1/m ((√∆H(| Pa <u>Tstd</u> Pstd Ta | -))-b) | Qa= | 1/m ((√∆ł | H(Ta/Pa))-b) | | |
| | Standard | Conditions | | | | | | _ | |
| Tstd | | | | | | RECA | LIBRATION | | |
| Pstd | | mm Hg | | | LIS EDA rocc | ommende o | nnual recalibrati | on por 1 | 202 |
| AH. calibrat | | (ey ter reading (i | n H2O) | | | | Regulations Part | - | |
| | | eter reading (i | | | | | , Reference Met | | |
| | | perature (°K) | | | | | ended Particulat | | |
| | | ressure (mm | | | | - | ere, 9.2.17, page | | 111 |
| b: intercept | t | | | | u u | слатоэри | | 50 | |
| m: slope | | | | | | | | | |

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

| : MR BEN TAM | WORK ORDER HK2311532 |
|---|---|
| ACTION-UNITED ENVIRONMENTAL | |
| SERVICES & CONSULTING | |
| : RM A 20/F., GOLD KING IND BLDG, NO. 35-41 | SUB-BATCH : 1 |
| TAI LIN PAI ROAD. KWAI CHUNG. N.T. | DATE RECEIVED : 23-MAR-2023 |
| | DATE OF ISSUE : 30-MAR-2023 |
| : | NO. OF SAMPLES : 1 |
| | CLIENT ORDER |
| | ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING RM A 20/F., GOLD KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N.T. |

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the • item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

| Signatories | Position | |
|----------------|-------------------|--|
| Kirland Jong . | | |
| Richard Fung | Managing Director | |
| | | |

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2311532

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



| ALS Lab ID | Client's Sample ID | Sample Type | Sample Date | External Lab Report No. |
|---------------|--------------------|----------------|-------------|-------------------------|
| HK2311532-001 | S/N: 456659 | AIR | 23-Mar-2023 | S/N: 456659 |

Equipment Verification Report (TSP)

Equipment Calibrated:

| Туре: | Laser Dust monitor |
|----------------|--------------------|
| Manufacturer: | Sibata LD-3B |
| Serial No. | 456659 |
| Equipment Ref: | EQ116 |

Standard Equipment:

Verification Date:

| Standard Equipment: | Higher Volume Sampler (TSP) |
|-------------------------|------------------------------------|
| Location & Location ID: | AUES office (calibration room) |
| Equipment Ref: | HVS 018 & HVS 019 |
| Last Calibration Date: | 27 February 2023 & 10 January 2023 |

Equipment Verification Results:

6 & 9 March 2023

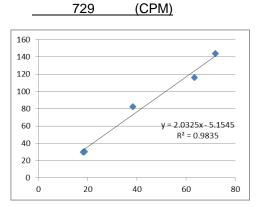
| Date | Hour | Time | Mean Temp °C | Mean Pressure (hPa) | Concentration in ug/m ³ (Standard Equipment) | Total Count (Calibrated Equipment) | Count/Minute (Total Count/min) |
|-----------|-----------|---------------|--------------------|---------------------------|--|--|--------------------------------------|
| 6-Mar-23 | 2hr01mins | 09:35 ~ 11:36 | 20 | 1022.4 | 82.5 | 4624 | 38.3 |
| 6-Mar-23 | 2hr01mins | 11:43 ~ 13:44 | 20 | 1022.4 | 29.5 | 2204 | 18.2 |
| 6-Mar-23 | 2hr11mins | 13:45 ~ 15:56 | 20 | 1022.4 | 30.4 | 2457 | 18.8 |
| 9-Mar-23* | 61mins | 11:03 ~ 12:04 | 22.5 | 1017.7 | 144 | 4357 | 71.9 |
| 9-Mar-23* | 61mins | 12:06 ~ 13:07 | 22.5 | 1017.7 | 116 | 3881 | 63.4 |

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 726 (CPM)

Linear Regression of Y or X

Slope (K-factor):2.0325 (µg/m³)/CPMCorrelation Coefficient (R)0.9917Date of Issue20 March 2023



Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor 2.0325 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

| Operator : | Fai So | Signature : | Ja | Date : | 20 March 2023 |
|---------------|---------|-------------|----|----------|---------------|
| QC Reviewer : | Ben Tam | Signature : | - | _ Date : | 20 March 2023 |

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

| Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH | orrected Pressure (mm Hg)768Temperature (K)291Qstd Slope ->2.10977Qstd Intercept ->-0.03782 | |
|--|--|--|
| Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH Model-> 5025A | Temperature (K) 291 Qstd Slope -> 2.10977 | |
| Make-> TISCH Model-> 5025A | | |
| Model-> 5025A | | |
| | Expiry Date-> 15-Dec-23 | |
| CALIBRATION | | |
| PlateH20 (L)H2O (R)H20QstdIICNo.(in)(in)(m3/min)(chart)corrected | LINEAR REGRESSION | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Slope = 32.9819 Intercept = 0.0741 Corr. coeff. = 0.9968 | |
| Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (deg K) Pstd = actual pressure during calibration (mm Hg) For subsequent calculation of sampler flow: 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response | FLOW RATE CHART | |

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

| Location :Gold King Industrial Building, Kwai ChungLocation ID :Calibration Room(HVS 019) | | | | | Date of Calibration: 10-Jan-23 Next Calibration Date: 9-Apr-23 | | | |
|--|------------------------|------------------------|---------------------------|----------------------------------|---|---|-----------------|--|
| | | | | | | COND | ITIONS | |
| Sea Level Pressure (hPa) 1 Temperature (°C) | | | | | 1 | 1018.8 18.2 | | Corrected Pressure (mm Hg) 764.1 Temperature (K) 291 |
| | | | | | CALI | BRATI | ON ORIFIC | CE |
| Make-> TIS Model-> 502 Calibration Date-> 15-De | | | | | 502 | 25A | | Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23 |
| | | | | | C | CALIB | RATION | |
| Plate No. | H20 (L) (in) | H2O (R) (in) | H20 (in) | Qstd (m3/min) | | [art) | IC corrected | LINEAR REGRESSION |
| 18 13 10 8 | 6 4.9 3.9 2.4 | 6 4.9 3.9 2.4 | 12.0 9.8 7.8 4.8 | 1.683 1.523 1.361 1.071 | 5 4 4 3 | 55 55.79 48 48.69 44 44.63 36 36.52 | | Slope = 31.4802 Intercept = 1.9499 Corr. coeff. = 0.9967 |
| 51.51.53.00.85128Calculations :Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]Qstd = standard flow rateIC = corrected chart responesI = actual chart responsem = calibrator Qstd slopeb = calibrator Qstd slopeb = calibrator Qstd interceptTa = actual temperature during calibration (deg K)Pstd = actual pressure during calibration (mm Hg)For subsequent calculation of sampler flow:1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)m = sampler slopeb = sampler interceptI = chart response | | | | | 00 90 90 90 90 90 90 90 90 90 90 90 90 9 | 0.00 0.00 0.00 0.00 0.00 0.000 | FLOW RATE CHART | |
| Tav = dail Pav = dail | | | | | | <u> </u> | | |



RECALIBRATION DUE DATE:

December 15, 2023

nmental Certificate of Calibration

| - 1 - | | | Calibration | | | °K | | | |
|--------------|-----------|--|--|---|---|-----------|-------------------|----------|-----|
| Cal. Date: | December | 15, 2022 | Roots | meter S/N: | 438320 | Ta: | Ta: 295 | | |
| Operator: | Jim Tisch | | | | | Pa: | 748.0 | mm Hg | 1 |
| Calibration | Model #: | TE-5025A | Calil | prator S/N: | 4064 | | | | 1 |
| | | Vol. Init | Vol. Final | ΔVol. | ΔTime | ΔΡ | ΔΗ | 1 | × |
| | Run | (m3) | (m3) | (m3) | (min) | (mm Hg) | (in H2O) | | |
| | 1 | 1 | 2 | 1 | 1.4430 | 3.2 | 2.00 | | |
| | 2 | 3 | 4 | 1 | 1.0210 | 6.4 | 4.00 | 1 | |
| | 3 | 5 | 6 | 1 | 0.9170 | 7.9 | 5.00 | | |
| | 4 | 7 | 8 | 1 | 0.8730 | 8.8 | 5.50 | 1 | |
| | 5 | 9 | 10 | 1 | 0.7210 | 12.8 | 8.00 |] | |
| | - | | | Data Tabula | tion | |)' | 1 | |
| | | | | V Total V | | | | 1 | |
| | Vstd | Qstd | $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$ |)(<u>Tstd</u>) | | Qa | √∆H(Ta/Pa) | | |
| | (m3) | (x-axis) | (y-axis) | | Va | (x-axis) | (y-axis) | | |
| | 0.9900 | 0.6861 | 1.4101 | | 0.9957 | 0.6900 | 0.8881 | .] | |
| | 0.9858 | 0.9655 | 1.9943 | | 0.9914 | 0.9711 | 1.2560 | - | |
| | 0.9838 | 1.0728 | 2.2296 | | 0.9894 | 1.0790 | 1.4042 | - | |
| | 0.9826 | 1.1255 | 2.3385 | | 0.9882 | 1.1320 | 1.4728 | - | |
| | 0.9772 | 1.3554 | 2.82 | | 0.9829 | 1.3632 | 1.7762 | - | |
| | OCTD | m= b= | -0.03 | All source into party or construction of the second | | m= b= | 1.32110 | - | |
| | QSTD | r= | 0.999 | | QA | r= | 0.99998 | - | |
| | | | ana da kana da | Calculatio | ns | | | ī | |
| | Vstd= | ΔVol((Pa-ΔP) | /Pstd)(Tstd/T | | Va=ΔVol((Pa-ΔP)/Pa) | | | | |
| | Qstd= | Vstd/∆Time | | | the second se | Va/∆Time | | 1 | |
| | | | For subsequ | ent flow ra | te calculatio | ns: | |] | |
| | Qstd= | Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right) - H$ | | | $Qa = 1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right) - b\right)$ | | | | |
| | Standard | Conditions | | | | | | _ | |
| Tstd | | | | | | RECA | LIBRATION | | |
| Pstd | | mm Hg | | | LIS EDA rocc | ommende o | nnual recalibrati | on por 1 | 202 |
| | | (ey ter reading (i | n H2O) | | | | Regulations Part | - | |
| | | eter reading (i | | | | | , Reference Met | | |
| | | perature (°K) | | | | | ended Particulat | | |
| | | ressure (mm | | | | - | ere, 9.2.17, page | | 111 |
| b: intercept | t | | | | u u | слатоэри | | 50 | |
| m: slope | | | | | | | | | |

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

| CONTACT | : MR BEN TAM | WORK ORDER HK2311533 |
|---------|---|-----------------------------|
| CLIENT | ACTION-UNITED ENVIRONMENTAL | |
| | SERVICES & CONSULTING | |
| ADDRESS | : RM A 20/F., GOLD KING IND BLDG, NO. 35-41 | SUB-BATCH : 1 |
| | TAI LIN PAI ROAD, KWAI CHUNG, N.T. | DATE RECEIVED : 23-MAR-2023 |
| | ······································ | DATE OF ISSUE : 30-MAR-2023 |
| PROJECT | : | NO. OF SAMPLES : 1 |
| | | CLIENT ORDER |

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the • item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

| Signatories | Position | |
|---------------|-------------------|--|
| Richard Juny. | | |
| Richard Fung | Managing Director | |
| | | |

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2311533

¹ ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



| ALS Lab ID | Client's Sample ID | Sample Type | Sample Date | External Lab Report No. |
|---------------|--------------------|----------------|-------------|-------------------------|
| HK2311533-001 | S/N: 456660 | AIR | 23-Mar-2023 | S/N: 456660 |

Equipment Verification Report (TSP)

Equipment Calibrated:

| Туре: | Laser Dust monitor |
|----------------|--------------------|
| Manufacturer: | Sibata LD-3B |
| Serial No. | 456660 |
| Equipment Ref: | EQ117 |

Standard Equipment:

Verification Date:

| Standard Equipment: | Higher Volume Sampler (TSP) |
|-------------------------|------------------------------------|
| Location & Location ID: | AUES office (calibration room) |
| Equipment Ref: | HVS 018 & HVS 019 |
| Last Calibration Date: | 27 February 2023 & 10 January 2023 |

Equipment Verification Results:

6 & 9 March 2023

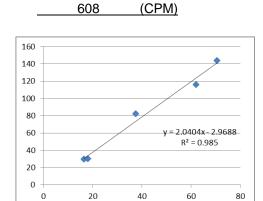
| Date | Hour | Time | Mean Temp °C | Mean Pressure (hPa) | Concentration in ug/m ³ (Standard Equipment) | Total Count (Calibrated Equipment) | Count/Minute (Total Count/min) |
|-----------|-----------|---------------|--------------------|---------------------------|--|--|--------------------------------------|
| 6-Mar-23 | 2hr01mins | 09:35 ~ 11:36 | 20 | 1022.4 | 82.5 | 4511 | 37.4 |
| 6-Mar-23 | 2hr01mins | 11:43 ~ 13:44 | 20 | 1022.4 | 29.5 | 2003 | 16.5 |
| 6-Mar-23 | 2hr11mins | 13:45 ~ 15:56 | 20 | 1022.4 | 30.4 | 2351 | 18.0 |
| 9-Mar-23* | 61mins | 11:03 ~ 12:04 | 22.5 | 1017.7 | 144 | 4277 | 70.6 |
| 9-Mar-23* | 61mins | 12:06 ~ 13:07 | 22.5 | 1017.7 | 116 | 3792 | 62.0 |

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 615 (CPM)

Linear Regression of Y or X

Slope (K-factor):2.0404 (µg/m³)/CPMCorrelation Coefficient (R)0.9925Date of Issue20 March 2023



Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor 2.0404 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

| Operator : | Fai So | Signature : | Ja | Date : | 20 March 2023 |
|---------------|---------|-------------|----|--------|---------------|
| QC Reviewer : | Ben Tam | Signature : | K | Date : | 20 March 2023 |

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

| Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH | orrected Pressure (mm Hg)768Temperature (K)291Qstd Slope ->2.10977Qstd Intercept ->-0.03782 | | |
|--|---|--|--|
| Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH Model-> 5025A | Temperature (K) 291 Qstd Slope -> 2.10977 | | |
| Make-> TISCH Model-> 5025A | | | |
| Model-> 5025A | | | |
| | Expiry Date-> 15-Dec-23 | | |
| CALIBRATION | | | |
| PlateH20 (L)H2O (R)H20QstdIICNo.(in)(in)(m3/min)(chart)corrected | LINEAR REGRESSION | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Slope = 32.9819 Intercept = 0.0741 Corr. coeff. = 0.9968 | | |
| Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] Qstd = standard flow rate IC = corrected chart respones I = actual chart response m = calibrator Qstd slope b = calibrator Qstd intercept Ta = actual temperature during calibration (deg K) Pstd = actual pressure during calibration (mm Hg) For subsequent calculation of sampler flow: 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) m = sampler slope b = sampler intercept I = chart response | FLOW RATE CHART | | |

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

| Location :Gold King Industrial Building, Kwai ChungLocation ID :Calibration Room(HVS 019) | | | | | Date of Calibration: 10-Jan-23 Next Calibration Date: 9-Apr-23 | | | |
|---|--|--|---|---|---|---|---|--|
| | | | | | | COND | ITIONS | |
| | Se | a Level I Temp | Pressure erature | . , | 1 | 018.8 18.2 | | Corrected Pressure (mm Hg) 764.1 Temperature (K) 291 |
| | | | | | CALI | BRATI | ON ORIFIC | CE |
| | | | Calibrat | Make-> Model-> ion Date-> | | 25A | | Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23 |
| | | | | | C | CALIB | RATION | |
| Plate No. | H20 (L) (in) | H2O (R) (in) | H20 (in) | Qstd (m3/min) | | [art) | IC corrected | LINEAR REGRESSION |
| 18 13 10 8 5 | 6 4.9 3.9 2.4 1.5 | 6 4.9 3.9 2.4 1.5 | 12.0 9.8 7.8 4.8 3.0 | 1.683 1.523 1.361 1.071 0.851 | 5 4 4 3 | 5 8 | 55.79 48.69 44.63 36.52 28.40 | Slope = 31.4802 Intercept = 1.9499 Corr. coeff. = 0.9967 |
| Pstd = actu For subse 1/m((I)[S m = sampl b = sampl I = chart re | n[Sqrt(H t(Pa/Pstc ndard flo cted cha chart res ator Qstd tor Qstd l temper ual press quent ca qrt(298/ er slope er interc esponse | d)(Tstd/T ow rate rt respon ponse d slope intercep ature durin ure durin alculation Tav)(Pav | a)] es t ting cali g calibr n of san t/760)]-t | bration (de ation (mm apler flow: | | 00 905 905 905 905 901 901 901 | 0.00 0.00 0.00 0.00 0.00 0.000 | FLOW RATE CHART |
| Tav = dail Pav = dail | | | | | | <u> </u> | | |



RECALIBRATION DUE DATE:

December 15, 2023

nmental Certificate of Calibration

| - 1 - | | | Calibration | | | | | 017 | |
|--|-----------|--|--|--|---|---------------------------|-------------------|----------|-----|
| Cal. Date: | December | 15, 2022 | Roots | meter S/N: | 438320 | Ta: | 295 | °K | |
| Operator: | Jim Tisch | m Tisch | | Pa: 7 | | | 748.0 | mm Hg | 1 |
| Calibration | Model #: | TE-5025A | Calil | prator S/N: | 4064 | | | | 1 |
| | | Vol. Init | Vol. Final | ΔVol. | ΔTime | ΔΡ | ΔΗ | 1 | × |
| | Run | (m3) | (m3) | (m3) | (min) | (mm Hg) | (in H2O) | | |
| | 1 | 1 | 2 | 1 | 1.4430 | 3.2 | 2.00 | | |
| | 2 | 3 | 4 | 1 | 1.0210 | 6.4 | 4.00 | 1 | |
| | 3 | 5 | 6 | 1 | 0.9170 | 7.9 | 5.00 | | |
| | 4 | 7 | 8 | 1 | 0.8730 | 8.8 | 5.50 | 1 | |
| | 5 | 9 | 10 | 1 | 0.7210 | 12.8 | 8.00 |] | |
| | - | | | Data Tabula | tion | |)' | 1 | |
| | | | | V Total V | | | | 1 | |
| | Vstd | Qstd | $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$ |)(<u>Tstd</u>) | | Qa | √∆H(Ta/Pa) | | |
| | (m3) | (x-axis) | (y-ax | is) | Va | (x-axis) | (y-axis) | | |
| | 0.9900 | 0.6861 | 1.41 | 01 | 0.9957 | 0.6900 | 0.8881 | .] | |
| | 0.9858 | 0.9655 | 1.99 | | 0.9914 | 0.9711 | 1.2560 | - | |
| | 0.9838 | 1.0728 | 2.22 | | 0.9894 | 1.0790 | 1.4042 | - | |
| | 0.9826 | 1.1255 | 2.33 | | 0.9882 | 1.1320 | 1.4728 | - | |
| | 0.9772 | 1.3554 | 2.82 | | 0.9829 | 1.3632 | 1.7762 | - | |
| | OCTD | m= b= | -0.03 | All south and the second s | | m= 1.32110 b= -0.02382 | | - | |
| | QSTD | r= | 0.999 | | QA | r= | 0.99998 | - | |
| | | | ana da kana da | Calculatio | ns | | | ī | |
| | Vstd= | ΔVol((Pa-ΔP) | /Pstd)(Tstd/T | | procession of the second se | ΔVol((Pa-Δ | P)/Pa) | 1 | |
| | Qstd= | Vstd/∆Time | | | the second se | Va/∆Time | | 1 | |
| | | | For subsequ | ent flow ra | te calculatio | ns: | |] | |
| | Qstd= | Qstd= $1/m \left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right)$ | | | Qa= | 1/m ((√∆ł | H(Ta/Pa))-b) | | |
| | Standard | Conditions | | | | | | _ | |
| Tstd | | | | | | RECA | LIBRATION | | |
| Pstd: 760 mm Hg | | | | | LIS EDA rocc | ommende o | nnual recalibrati | on por 1 | 202 |
| Key ΔH: calibrator manometer reading (in H2O) | | | | | | | Regulations Part | - | |
| | | eter reading (i | | | | | , Reference Met | | |
| | | perature (°K) | | | | | ended Particulat | | |
| | | ressure (mm | | | | - | ere, 9.2.17, page | | 111 |
| b: intercept | t | | | | u u | слатоэри | | 50 | |
| m: slope | | | | | | | | | |

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231630 證書編號

| ITEM TESTED / 送檢 Description / 儀器名稱 Manufacturer / 製造商 Model No. / 型號 | | (Job No. / 序引編號:IC23-0436) Sound Level Meter (EQ018) Rion NL-52 | Date of Receipt / 收件日期: 28 February 2023 |
|--|---|--|--|
| Serial No. / 編號 Supplied By / 委託者 | : | 00809405 Action-United Environmental Services ar Unit A, 20/F., Gold King Industrial Build 35-41 Tai Lin Pai Road, Kwai Chung, N. | ling |

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}C$ Line Voltage / 電壓 :

Relative Humidity / 相對濕度 : $(50 \pm 25)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 21 March 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

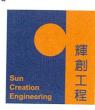
| Tested By 測試 | : | K ¢ Lee Engineer | |
|-----------------|---|---------------------|------------|
| Certified By | : | H C Chan | Date of Is |
| 核證 | | Engineer | 簽發日其 |

ssue

21 March 2023

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

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輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231630 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

| Equipment ID | <u>Description</u> | <u>Certificate No.</u> |
|--------------|-------------------------------------|------------------------|
| CL280 | 40 MHz Arbitrary Waveform Generator | C230306 |
| CL281 | Multifunction Acoustic Calibrator | AV210017 |

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

| | UUT Setting | | | | | UUT | IEC 61672 |
|----------|----------------|-----------|-----------|-------|------------------|---------|---------------|
| Range | Function | Frequency | Time | Level | d Value Freq. | Reading | Class 1 Limit |
| (dB) | | Weighting | Weighting | (dB) | (kHz) | (dB) | (dB) |
| 30 - 130 | L _A | А | Fast | 94.00 | 1 | 93.9 | + 1 1 |

6.1.2 Linearity

| | UU" | Γ Setting | | Applie | d Value | UUT |
|---------------|----------------|------------------------|-------------------|---------------|----------------|-----------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | Reading (dB) |
| 30 - 130 | L _A | А | Fast | 94.00 | 1 | 93.9 (Ref.) |
| | | | | 104.00 | | 104.0 |
| TC (1(72 C) | 1 7 1 1 | | | 114.00 | | 113.9 |

IEC 61672 Class 1 Limit : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

| | UUT Setting | | | | | UUT | IEC 61672 |
|---------------|-------------|------------------------|-------------------|---------------|---------------------------|-----------------|-----------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | d Value Freq. (kHz) | Reading (dB) | Class 1 Limit (dB) |
| 30 - 130 | L_A | А | Fast | 94.00 | 1 | 93.9 | Ref. |
| | | | Slow | | | 93.9 | ± 0.3 |

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號四樓

Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior



輝創工程有限公司 Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231630 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

| | UUT | | Applied Value UU | | | . IEC 61672 | |
|----------|----------------|-----------|------------------|-------|--------|-------------|---------------------|
| Range | Function | Frequency | Time | Level | Freq. | Reading | Class 1 Limit |
| (dB) | | Weighting | Weighting | (dB) | | (dB) | (dB) |
| 30 - 130 | L _A | А | Fast | 94.00 | 63 Hz | 67.1 | -26.2 ± 1.5 |
| | | | | | 125 Hz | 77.7 | -16.1 ± 1.5 |
| | | | | | 250 Hz | 85.2 | -8.6 ± 1.4 |
| | | | | | 500 Hz | 90.7 | -3.2 ± 1.4 |
| | | | | | 1 kHz | 93.9 | Ref. |
| | | | | | 2 kHz | 95.2 | $+1.2 \pm 1.6$ |
| | | | | | 4 kHz | 94.9 | $+1.0\pm1.6$ |
| | | | | | 8 kHz | 92.9 | -1.1 (+2.1 ; -3.1) |
| | | | | | 16 kHz | 86.0 | -6.6 (+3.5 ; -17.0) |

6.3.2 C-Weighting

| | | Appli | ed Value | UUT | IEC 61672 | | |
|----------|----------------|-----------|-----------|-------|-----------|---------|---------------------|
| Range | Function | Frequency | Time | Level | Freq. | Reading | Class 1 Limit |
| (dB) | | Weighting | Weighting | (dB) | | (dB) | (dB) |
| 30 - 130 | L _C | С | Fast | 94.00 | 63 Hz | 93.1 | -0.8 ± 1.5 |
| | | | | | 125 Hz | 93.7 | -0.2 ± 1.5 |
| | | | | | 250 Hz | 93.9 | 0.0 ± 1.4 |
| | | | | | 500 Hz | 94.0 | 0.0 ± 1.4 |
| | | | | | 1 kHz | 93.9 | Ref. |
| | | | | | 2 kHz | 93.8 | -0.2 ± 1.6 |
| | | | | | 4 kHz | 93.1 | -0.8 ± 1.6 |
| | | | | | 8 kHz | 91.0 | -3.0 (+2.1 ; -3.1) |
| | | | | | 16 kHz | 84.0 | -8.5 (+3.5 ; -17.0) |

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Certificate of Calibration 校正證書

Certificate No. : C231630 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 16463

- Mfr's Limit : IEC 61672 Class 1

| | | | * |
|------------------------------------|----------|-----------------|------------------------------------|
| - Uncertainties of Applied Value : | 94 dB : | 63 Hz - 125 Hz | : ± 0.35 dB |
| | | 250 Hz - 500 Hz | $\pm 0.30 \text{ dB}$ |
| | | 1 kHz | $\pm 0.20 \text{ dB}$ |
| | | 2 kHz - 4 kHz | $\pm 0.35 \text{ dB}$ |
| | | 8 kHz | $\pm 0.45 \text{ dB}$ |
| | | 16 kHz | $\pm 0.70 \text{ dB}$ |
| | 104 dB : | 1 kHz | $\pm 0.10 \text{ dB}$ (Ref. 94 dB) |
| | 114 dB : | 1 kHz | $\pm 0.10 \text{ dB}$ (Ref. 94 dB) |
| | | | |

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231631 證書編號

| ITEM TESTED / 送檢項 | (Job No. / 序引編號: IC23-0436) Date of Receipt / 收件日期: 28 February 2023 | | | | | | |
|------------------------|--|--|--|--|--|--|--|
| Description / 儀器名稱 : | Sound Level Meter (EQ067) | | | | | | |
| Manufacturer / 製造商 : | Rion | | | | | | |
| Model No. / 型號 : | NL-31 | | | | | | |
| Serial No. / 編號 : | 00410221 | | | | | | |
| Supplied By / 委託者 : | Action-United Environmental Services and Consulting | | | | | | |
| | Unit A, 20/F., Gold King Industrial Building, | | | | | | |
| | 35-41 Tai Lin Pai Road, Kwai Chung, N.T. | | | | | | |
| | | | | | | | |
| TEST CONDITIONS / 測試條件 | | | | | | | |

Temperature / 溫度 : $(23 \pm 2)^{\circ}C$ Line Voltage / 電壓 :

Relative Humidity / 相對濕度 : $(50 \pm 25)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 21 March 2023 :

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

| Tested By 測試 | : | K C Lee Engineer | | | |
|--------------------|---|--------------------------------------|-----------------------|---|---------------|
| Certified By 核證 | : | Chun Un Chan H C Chan Engineer | Date of Issue 簽發日期 | : | 21 March 2023 |

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號四樓

Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

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Certificate No. : C235367 證書編號

| ITEM TESTED / 送檢項目 | (Job No. / 序引編號: IC23-1813) Date of Receipt / 收件日期: 31 August 2023 |
|----------------------|--|
| Description / 儀器名稱 : | Sound Level Calibrator (EQ085) |
| Manufacturer / 製造商 : | Rion |
| Model No. / 型號 : | NC-73 |
| Serial No. / 編號 : | 10655561 |
| Supplied By / 委託者 : | Action-United Environmental Services and Consulting |
| | Unit A, 20/F., Gold King Industrial Building, |
| | 35-41 Tai Lin Pai Road, Kwai Chung, N.T. |

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50 ± 25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 13 September 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published or user's specified tolerances as requested by the customer. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

- Hottinger Brüel & Kjær Calibration Laboratory, Denmark

- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

| Tested By 測試 | : | K C Lee Engineer | | | |
|--------------------|---|----------------------|-----------------------|---|-------------------|
| Certified By 核證 | : | K K Wong Engineer | Date of Issue 簽發日期 | : | 17 September 2023 |

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C235367 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier

<u>Certificate No.</u> C233799 CDK2302738 C221750

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

| UUT | Measured Value | Mfr's Spec. | Uncertainty of Measured Value | | |
|---------------|----------------|-------------|-------------------------------|--|--|
| Nominal Value | (dB) | (dB) | (dB) | | |
| 94 dB, 1 kHz | 94.00 | ± 0.5 | ± 0.20 | | |

5.2 Frequency Accuracy

| UUT Nominal Value | Measured Value | User's | Uncertainty of Measured Value | |
|-------------------|----------------|-------------|-------------------------------|--|
| (kHz) | (kHz) | Spec. | (Hz) | |
| 1 | 0.951 | 1 kHz ± 6 % | ± 1 | |

Remarks : - The user's specified acceptance criteria (user's spec.) is a customer pre-defined operating tolerance of the UUT, suitable for one's own intended use.

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



e).

Certificate of Calibration 校正證書

Certificate No. : C231631 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C230360 AV210017

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

| | UU | JT Setting | | Applied Value | | UUT | IEC 61672 Class 1 |
|----------|----------------|------------|-----------|---------------|-------|---------|-------------------|
| Range | Mode | Frequency | Time | Level | Freq. | Reading | Limit |
| (dB) | | Weighting | Weighting | (dB) | (kHz) | (dB) | (dB) |
| 30 - 120 | L _A | Α | Fast | 94.00 | 1 | 93.6 | ± 1.1 |

6.1.2 Linearity

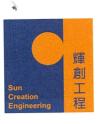
| | UI | JT Setting | | Applied | Value | UUT |
|----------|----------------|------------|-----------|---------|-------|-------------|
| Range | Mode | Frequency | Time | Level | Freq. | Reading |
| (dB) | | Weighting | Weighting | (dB) | (kHz) | (dB) |
| 30 - 120 | L _A | А | Fast | 94.00 | 1 | 93.6 (Ref.) |
| | | | | 104.00 | | 103.6 |
| | | | | 114.00 | | 113.6 |

IEC 61672 Class 1 Limit : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

| | UU | T Setting | | Applied Value | | UUT | IEC 61672 Class 1 |
|----------|----------------|-----------|-----------|---------------|-------|---------|-------------------|
| Range | Mode | Frequency | Time | Level | Freq. | Reading | Limit |
| (dB) | | Weighting | Weighting | (dB) | (kHz) | (dB) | (dB) |
| 30 - 120 | L _A | А | Fast | 94.00 | 1 | 93.6 | Ref. |
| | | | Slow | | | 93.6 | ± 0.3 |

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory. 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



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輝創工程有限公司 Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231631 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

| A-weighting | | | | | | | | |
|-------------|-----------|--|--|--|--|--|--|--|
| UU | Γ Setting | | Applied Value | | UUT | IEC 61672 Class 1 | | |
| Mode | Frequency | Time | Level | Freq. | Reading | Limit | | |
| | Weighting | Weighting | (dB) | | (dB) | (dB) | | |
| LA | A | Fast | 94.00 | 63 Hz | 67.3 | -26.2 ± 1.5 | | |
| | | | | 125 Hz | 77.4 | -16.1 ± 1.5 | | |
| | | | | 250 Hz | 84.9 | -8.6 ± 1.4 | | |
| | | | | 500 Hz | 90.3 | -3.2 ± 1.4 | | |
| | | | | 1 kHz | 93.6 | Ref. | | |
| | | | | 2 kHz | 94.8 | $+1.2 \pm 1.6$ | | |
| <u>6</u> | | | | 4 kHz | 94.7 | $+1.0 \pm 1.6$ | | |
| | | | | 8 kHz | 92.6 | -1.1 (+2.1 ; -3.1) | | |
| | | | | 16 kHz | 87.2 | -6.6 (+3.5 ; -17.0) | | |
| | UU | UUT Setting Mode Frequency Weighting | UUT SettingModeFrequencyTimeWeightingWeighting | UUT SettingApplModeFrequencyTimeWeightingWeighting(dB)OutputOutputOutput | $\begin{array}{ c c c c } UUT \ Setting & Applied \ Value \\ \hline Mode & Frequency & Time & Level & Freq. \\ \hline Weighting & Weighting & (dB) \\ \hline L_A & A & Fast & 94.00 & 63 \ Hz \\ \hline 125 \ Hz \\ 250 \ Hz \\ 500 \ Hz \\ \hline 1 \ kHz \\ 2 \ kHz \\ \hline 4 \ kHz \\ \hline 8 \ kHz \\ \hline \end{array}$ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | |

6.3.2 C-Weighting

| | UUT Setting | | | | Applied Value | | UUT | IEC 61672 Class 1 |
|----|-------------|----------------|-----------|-----------|---------------|--------|---------|---------------------|
| Ra | nge | Mode | Frequency | Time | Level | Freq. | Reading | Limit |
| | B) | | Weighting | Weighting | (dB) | | (dB) | (dB) |
| | 120 | L _C | C | Fast | 94.00 | 63 Hz | 92.6 | -0.8 ± 1.5 |
| | | C | | | | 125 Hz | 93.3 | -0.2 ± 1.5 |
| | | | | | | 250 Hz | 93.5 | 0.0 ± 1.4 |
| | | | | | | 500 Hz | 93.6 | 0.0 ± 1.4 |
| | | | | | | 1 kHz | 93.6 | Ref. |
| | | | | | | 2 kHz | 93.5 | -0.2 ± 1.6 |
| | | | | | | 4 kHz | 92.9 | -0.8 ± 1.6 |
| | | | | | | 8 kHz | 90.7 | -3.0 (+2.1 ; -3.1) |
| | | | | | | 16 kHz | 85.3 | -8.5 (+3.5 ; -17.0) |

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

written approval of this laboratory. 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本質驗所書面批准。



Certificate of Calibration 校正證書

Certificate No. : C231631 證書編號

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 322551

| - Mfr's Limit : IEC 61672 Class 1 | |
|-----------------------------------|---|
| 104 dB | $\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$ |
| 114 UD | $: 1 \text{ kHz}$ $: \pm 0.10 \text{ dB} (\text{Ref. 94 dB})$ |

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory. 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C226778 證書編號

| ITEM TESTED / 送檢項目 | (Job No. / 序引編號: IC22-2282) Date of Receipt / 收件日期: 8 November 2022 |
|----------------------|---|
| Description / 儀器名稱 : | Sound Calibrator (EQ086) |
| Manufacturer / 製造商 : | Rion |
| Model No. / 型號 : | NC-74 |
| Serial No. / 編號 : | 34657230 |
| Supplied By / 委託者 : | Action-United Environmental Services and Consulting |
| | Unit A, 20/F., Gold King Industrial Building, |
| | 35-41 Tai Lin Pai Road, Kwai Chung, N.T. |
| | |

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50 ± 25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 19 November 2022

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. The results do not exceed manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies

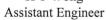
:

- Fluke Everett Service Center, USA

Tested By 測試

H T Wong

K C Lee Engineer



Certified By 核證

Date of Issue 簽發日期

:

21 November 2022

Page 1 of 2

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited – Calibration & Testing.Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號四樓 Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C226778 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

| <u>Equipment ID</u> | <u>Description</u> | <u>Certificate No.</u> |
|---------------------|-----------------------------------|------------------------|
| CL130 | Universal Counter | C223647 |
| CL281 | Multifunction Acoustic Calibrator | AV210017 |
| TST150A | Measuring Amplifier | C221750 |

- 4. Test procedure : MA100N.
- 5. Results :

5.1 Sound Level Accuracy

| UUT | Measured Value | Mfr's Spec. | Uncertainty of Measured Value |
|---------------|----------------|-------------|-------------------------------|
| Nominal Value | (dB) | (dB) | (dB) |
| 94 dB, 1 kHz | 94.1 | ± 0.3 | ± 0.2 |

5.2 Frequency Accuracy

| UUT Nominal Value | Measured Value | Mfr's | Uncertainty of Measured Value |
|-------------------|----------------|--------------------------|-------------------------------|
| (kHz) | (kHz) | Spec. | (Hz) |
| 1 | 1.002 | $1 \text{ kHz} \pm 1 \%$ | ± 1 |

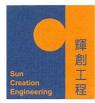
Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C226780 證書編號

| ITEM TESTED / 送檢項目 | (Job No. / 序引編號: IC22-2282) Date of Receipt / 收件日期: 8 November 2022 |
|----------------------|---|
| Description / 儀器名稱 : | Sound Calibrator (EQ087) |
| Manufacturer / 製造商 : | Rion |
| Model No. / 型號 : | NC-74 |
| Serial No. / 編號 : | 34657231 |
| Supplied By / 委託者 : | Action-United Environmental Services and Consulting |
| | Unit A, 20/F., Gold King Industrial Building, |
| | 35-41 Tai Lin Pai Road, Kwai Chung, N.T. |
| | , |

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}C$ Line Voltage / 電壓 :

Relative Humidity / 相對濕度 : $(50 \pm 25)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 19 November 2022 •

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only. The results do not exceed manufacturer's specification. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試

H T Wong Assistant Engineer

K

Lee Engineer

Certified By 核證

Date of Issue 簽發日期

:

21 November 2022

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C226780 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

| Equipment ID | Description | Certificate No. |
|--------------|-----------------------------------|-----------------|
| CL130 | Universal Counter | C223647 |
| CL281 | Multifunction Acoustic Calibrator | AV210017 |
| TST150A | Measuring Amplifier | C221750 |

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

| UUT | Measured Value | Mfr's Spec. | Uncertainty of Measured Value |
|---------------|----------------|-------------|-------------------------------|
| Nominal Value | (dB) | (dB) | (dB) |
| 94 dB, 1 kHz | 94.1 | ± 0.3 | ± 0.2 |

5.2 Frequency Accuracy

| UUT Nominal Value | Measured Value | Mfr's | Uncertainty of Measured Value |
|-------------------|----------------|--------------------------|-------------------------------|
| (kHz) | (kHz) | Spec. | (Hz) |
| 1 | 1.001 | $1 \text{ kHz} \pm 1 \%$ | ± 1 |

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

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The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation

認可證書

This is to certify that 特此證明

ALS TECHNICHEM (HK) PTY LIMITED

11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌永業街1-3號忠信針織中心11樓

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017 for performing specific laboratory activities as listed in the scope of accreditation within the test category of 獲香港認可處根據ISO/IEC 17025:2017認可 進行載於認可範圍內下述測試類別中的指定實驗所活動

Environmental Testing

環境測試

 This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and
the implementation of a management system relevant to laboratory operation
(see joint IAF-ILAC-ISO Communiqué).

 此項 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並
實施一套與實驗所運作相關的管理體系
(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of HKAS is affixed hereto by the authority of the HKAS Executive 現經香港認可處執行機關授權在此蓋上香港認可處的印章

SHUM Wai-leung, Executive Administrator 執行幹事 沈偉良 Issue Date : 28 February 2020 簽發日期 : 二零二零年二月二十八日

Registration Number : HOKLAS 066 註冊號碼 :



Date of First Registration : 15 September 1995 首次註冊日期:一九九五年九月十五日

L001934



Appendix F

Event and Action Plan

Event / Action Plan for construction dust

| E4 | | Action | | |
|---|--|---|--|---|
| Event | ET | IEC | ER | Contractor |
| Action Level exceedance for one sample | Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, ER and Contractor; Repeat measurement to confirm finding; and Increase monitoring frequency to daily. | Check monitoring data submitted by ET; Check Contractor's working method; and Review and advise the ET and ER on the effectiveness of the proposed remedial measures. | 1. Notify Contractor. | Identify source, investigate the causes of exceedance and propose remedial measures; Rectify any unacceptable practice and implement remedial measures; and Amend working methods agreed with ER if appropriate. |
| Action Level exceedance for two or more consecutive samples | Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, ER and Contractor; Advise the ER and Contractor on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC, ER and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; and If exceedance stops, cease additional monitoring. | Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET and ER on the effectiveness of the proposed remedial measures; and Supervise Implementation of remedial measures. | Confirm receipt of notification of failure in writing; Notify Contractor; and Supervise and ensure remedial measures properly implemented. | Identify source, investigate the causes of exceedance and propose remedial measures; Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; and Amend proposal if appropriate. |
| Limit Level exceedance for one sample | Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor, IEC and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; and Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. | Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise the ER and ET on the effectiveness of the proposed remedial measures; and Supervise implementation of remedial measures. | Confirm receipt of notification of failure in writing; Notify Contractor; and Supervise and ensure remedial measures properly implemented. | Identify source, investigate the causes of exceedance and propose remedial measures; Take immediate action to avoid further exceedance; Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; and Amend proposal if appropriate. |
| Limit Level exceedance for two or more consecutive samples | Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. | Check monitoring data submitted by ET; Check Contractor's working method; Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation of remedial measures. | Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; Supervise and ensure remedial measures properly implemented; and If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. | Identify source, investigate the causes of exceedance and propose remedial measures; Take immediate action to avoid further exceedance; Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; and Stop the relevant portion of works as determined by the ER until the exceedance is abated. |



Event and Action Plan for Construction Noise

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



Appendix G

Impact Monitoring Schedule



Impact Monitoring Schedule for the Reporting Period

| | | NOISE MONITORING | AIR QUALITY | MONITORING |
|-----|-----------|------------------|--------------|--------------|
| | Date | (0700 – 1900) | 1-HOUR TSP | 24-HOUR TSP |
| Sun | 1-Oct-23 | | | |
| Mon | 2-Oct-23 | | | |
| Tue | 3-Oct-23 | | | |
| Wed | 4-Oct-23 | \checkmark | \checkmark | |
| Thu | 5-Oct-23 | | | √ |
| Fri | 6-Oct-23 | | | |
| Sat | 7-Oct-23 | | | |
| Sun | 8-Oct-23 | | | |
| Mon | 9-Oct-23 | | | |
| Tue | 10-Oct-23 | ✓ | \checkmark | |
| Wed | 11-Oct-23 | | | \checkmark |
| Thu | 12-Oct-23 | | | |
| Fri | 13-Oct-23 | | | |
| Sat | 14-Oct-23 | | | |
| Sun | 15-Oct-23 | | | |
| Mon | 16-Oct-23 | ✓ | √ | |
| Tue | 17-Oct-23 | | | √ |
| Wed | 18-Oct-23 | | | |
| Thu | 19-Oct-23 | | | |
| Fri | 20-Oct-23 | ✓ | \checkmark | |
| Sat | 21-Oct-23 | | | ✓ |
| Sun | 22-Oct-23 | | | |
| Mon | 23-Oct-23 | | | |
| Tue | 24-Oct-23 | | | |
| Wed | 25-Oct-23 | √ | , | |
| Thu | 26-Oct-23 | • • | ✓ | |
| Fri | 27-Oct-23 | | | √ |
| Sat | 28-Oct-23 | | | |
| Sun | 29-Oct-23 | | | |
| Mon | 30-Oct-23 | | | |
| Tue | 31-Oct-23 | | | |

| ✓ | Monitoring Day |
|---|--------------------------|
| | Sunday or Public Holiday |



Impact Monitoring Schedule for next Reporting Period

| | | NOISE MONITORING | AIR QUALITY | MONITORING |
|-----|-----------|------------------|--------------|--------------|
| | Date | (0700 – 1900) | 1-HOUR TSP | 24-HOUR TSP |
| Wed | 1-Nov-23 | √ | \checkmark | |
| Thu | 2-Nov-23 | | | √ |
| Fri | 3-Nov-23 | | | |
| Sat | 4-Nov-23 | | | |
| Sun | 5-Nov-23 | | | |
| Mon | 6-Nov-23 | | | |
| Tue | 7-Nov-23 | ✓ | \checkmark | |
| Wed | 8-Nov-23 | | | ✓ |
| Thu | 9-Nov-23 | | | |
| Fri | 10-Nov-23 | | | |
| Sat | 11-Nov-23 | | | |
| Sun | 12-Nov-23 | | | |
| Mon | 13-Nov-23 | ✓ | √ | |
| Tue | 14-Nov-23 | | | \checkmark |
| Wed | 15-Nov-23 | | | |
| Thu | 16-Nov-23 | | | |
| Fri | 17-Nov-23 | | | |
| Sat | 18-Nov-23 | | \checkmark | |
| Sun | 19-Nov-23 | | | |
| Mon | 20-Nov-23 | | | ✓ |
| Tue | 21-Nov-23 | | | |
| Wed | 22-Nov-23 | | | |
| Thu | 23-Nov-23 | √ | , | |
| Fri | 24-Nov-23 | · · · | \checkmark | |
| Sat | 25-Nov-23 | | | ✓ |
| Sun | 26-Nov-23 | | | |
| Mon | 27-Nov-23 | | | |
| Tue | 28-Nov-23 | | | |
| Wed | 29-Nov-23 | | | |
| Thu | 30-Nov-23 | \checkmark | √ | |

| ✓ | Monitoring Day |
|---|--------------------------|
| | Sunday or Public Holiday |



Appendix H

Database of Monitoring Result



24-HOUR TSP MONITORING RESULT DATABASE

| | | | 13504 | | | 24-110 | JUK I | SI MONII | UKING KE | SULI DATABA | SE | | | | |
|-------------|------------------|--------------|-----------|---------|------|--------|-------|----------|----------|-----------------------|-----------------------|-----------|--------|-------------|----------------------|
| 24-hour TS | P Monitorir | ng Data fo | r AMS1a | | | | | - | | | | - | | | |
| | SAMPLE | EI 4 | APSED TIN | ЛE | | CHAR | | AVG | AVG AIR | STANDARD | AIR | FILTER V | | DUST WEIGHT | 24-hr |
| DATE | NUMBER | | | | | EADIN | | TEMP | PRESS | FLOW RATE | VOLUME | (g | | COLLECTED | TSP ₃ |
| | | INITIAL | FINAL | (min) | | MAX | AVG | (°C) | (hPa) | (m ³ /min) | (std m ³) | INITIAL | FINAL | (g) | (µg/m ³) |
| 5-Oct-23 | | 26516.96 | | 1440 | 41 | 41 | 41 | 30.5 | 1007.3 | 1.48 | 2129 | 2.7517 | 2.8136 | 0.0619 | 29 |
| 11-Oct-23 | | | 26564.96 | 1440 | 41 | 41 | 41 | 25.6 | 1016.9 | 1.49 | 2149 | 2.7852 | 2.8237 | 0.0385 | 18 |
| 17-Oct-23 | | 26564.96 | | 1440 | 41 | 41 | 41 | 25.8 | 1015.4 | 1.49 | 2147 | 2.7534 | 2.8381 | 0.0847 | 39 |
| 21-Oct-23 | 29678 | 26588.96 | 26612.96 | 1440 | 41 | 41 | 41 | 23.3 | 1018.4 | 1.50 | 2156 | 2.7677 | 2.8218 | 0.0541 | 25 |
| 27-Oct-23 | 29839 | 26612.96 | 26636.96 | 1440 | 41 | 41 | 41 | 26.6 | 1014 | 1.49 | 2144 | 2.7654 | 2.804 | 0.0386 | 18 |
| 24-hour TS | P Monitorir | ng Data fo | r AMS-5 | | | | | | | | | | | | |
| | SAMPLE | EI V | APSED TIN | ΛE | | CHAR | | AVG | AVG AIR | STANDARD | AIR | FILTER V | | DUST WEIGHT | 24-hr |
| DATE | NUMBER | | | | | EADIN | | TEMP | PRESS | FLOW RATE | VOLUME | (g | | COLLECTED | TSP |
| | | INITIAL | | (min) | MIN | MAX | AVG | (°C) | (hPa) | (m ³ /min) | (std m ³) | INITIAL | FINAL | (g) | $(\mu g/m^3)$ |
| 5-Oct-23 | 29779 | 14613.03 | | | 39 | 39 | 39.0 | 30.5 | 1007.3 | 1.37 | 1968 | 2.7759 | 2.8933 | 0.1174 | 60 |
| 11-Oct-23 | 29798 | 14637.03 | | | 39 | 39 | 39.0 | 25.6 | 1016.9 | 1.38 | 1984 | 2.7815 | 2.8395 | 0.0580 | 29 |
| 17-Oct-23 | 29663 | | 14685.03 | | 39 | 39 | 39.0 | 25.8 | 1015.4 | 1.38 | 1982 | 2.7318 | 2.9133 | 0.1815 | 92 |
| 21-Oct-23 | 29819 | | 14709.03 | | 39 | 39 | 39.0 | 23.3 | 1018.4 | 1.38 | 1989 | 2.7791 | 2.8562 | 0.0771 | 39 |
| 27-Oct-23 | 29804 | 14709.03 | 14733.03 | 1440.00 | 39 | 39 | 39.0 | 26.6 | 1014 | 1.37 | 1980 | 2.7630 | 2.8373 | 0.0743 | 38 |
| 24-hour TS | P Monitorir | ng Data fo | r AMS-6 | | | | | | | | | | | | |
| | SAMPLE | | APSED TIN | 1E | | CHAR | | AVG | AVG AIR | STANDARD | AIR | FILTER V | VEIGHT | DUST WEIGHT | 24-hr |
| DATE | NUMBER | | | | | EADIN | | TEMP | PRESS | FLOW RATE | VOLUME | (g | | COLLECTED | TSP |
| | | INITIAL | FINAL | (min) | MIN | MAX | AVG | (°C) | (hPa) | (m ³ /min) | (std m ³) | INITIAL | FINAL | (g) | $(\mu g/m^3)$ |
| 5-Oct-23 | 29812 | | 19724.10 | | 40 | 41 | 40.5 | 30.5 | 1007.3 | 1.42 | 2052 | 2.7774 | 2.8051 | 0.0277 | 13 |
| 11-Oct-23 | 29815 | | 19748.10 | | 40 | 41 | 40.5 | 25.6 | 1016.9 | 1.44 | 2068 | 2.7757 | 2.8155 | 0.0398 | 19 |
| 17-Oct-23 | 29816 | | 19772.10 | | 40 | 41 | 40.5 | 25.8 | 1015.4 | 1.44 | 2067 | 2.7860 | 2.8685 | 0.0825 | 40 |
| 21-Oct-23 | | | 19796.10 | | 40 | 41 | 40.5 | 23.3 | 1018.4 | 1.44 | 2074 | 2.7951 | 2.8344 | 0.0393 | 19 |
| 27-Oct-23 | 29802 | 19796.10 | 19820.10 | 1440.00 | 40 | 41 | 40.5 | 26.6 | 1014 | 1.43 | 2064 | 2.7790 | 2.8198 | 0.0408 | 20 |
| 24-hour TSI | P Monitoring | g Data for A | AMS-7 | | | | | | | | | | | | |
| | CAMPLE | EL / | APSED TIM | Æ | CUAT | RT REA | DINIC | AVG | AVG AIR | STANDARD | AIR | FILTER WI | | DUST WEIGHT | 24-hr |
| DATE | SAMPLE NUMBER | | | | | | | TEMP | PRESS | FLOW RATE | VOLUME | | | COLLECTED | TSP |
| | | INITIAL | FINAL | (min) | MIN | MAX | AVG | (°C) | (hPa) | (m ³ /min) | (std m ³) | INITIAL | FINAL | (g) | $(\mu g/m^3)$ |
| 5-Oct-23 | 29652 | 14483.32 | | | 40 | 40 | 40.0 | 30.5 | 1007.3 | 1.40 | 2013 | 2.7614 | 2.9020 | 0.1406 | 70 |
| 11-Oct-23 | 29800 | | 14531.32 | | 40 | 40 | 40.0 | 25.6 | 1016.9 | 1.42 | 2031 | 2.7833 | 2.8452 | 0.0619 | 30 |
| 17-Oct-23 | 29665 | | 14555.32 | | 40 | 40 | 40.0 | 25.8 | 1015.4 | 1.41 | 2003 | 2.7298 | 2.8923 | 0.1625 | 81 |
| 21-Oct-23 | 29679 | | 14579.32 | | 40 | 40 | 40.0 | 23.3 | 1018.4 | 1.42 | 2002 | 2.7454 | 2.8128 | 0.0674 | 34 |
| 27-Oct-23 | 29838 | 14579.32 | 14603.32 | 1440.00 | 40 | 40 | 40.0 | 26.6 | 1014 | 1.41 | 1997 | 2.7603 | 2.8423 | 0.0820 | 41 |



NOISE MONITORING RESULT DATABASE FOR CONTRACT 1

| Noise Meas | uremen | nt Resul | ts (dB) | of NMS1 | | | | | | | | | | | | | | | | | |
|------------|--------|----------|-----------|---------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|-------|
| | Start | 1s | t Leq (51 | min) | 2nd | Leq (51 | nin) | 3rd | Leq (51 | min) | 4th | Leq (51 | min) | 5th | Leq (51 | nin) | 6th | Leq (51 | nin) | Leq30 | Limit |
| Date | Time | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | min, | Level |
| | Time | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| 4-Oct-23 | 13:00 | 71.3 | 75.7 | 59.0 | 71.5 | 76.2 | 59.1 | 71.2 | 75.9 | 55.4 | 73.5 | 76.7 | 57.9 | 72.5 | 75.8 | 59.4 | 72.7 | 76.5 | 58.8 | 72 | 70 |
| 10-Oct-23 | 9:01 | 71.8 | 75.8 | 58.5 | 71.5 | 76.7 | 57.4 | 70.5 | 74.8 | 56.8 | 71.8 | 76.3 | 60.2 | 69.0 | 73.9 | 57.9 | 68.1 | 70.7 | 56.2 | 71 | 70 |
| 16-Oct-23 | 9:03 | 71.0 | 74.7 | 62.7 | 70.1 | 73.2 | 61.9 | 71.6 | 75.6 | 61.2 | 71.2 | 73.9 | 62.4 | 70.8 | 75.3 | 60.6 | 70.0 | 74.2 | 61.3 | 71 | 70 |
| 20-Oct-23 | 9:05 | 70.7 | 71.5 | 63.1 | 70.7 | 74.6 | 62.8 | 70.7 | 74.8 | 63.5 | 69.4 | 73.5 | 61.6 | 72.7 | 77.5 | 62.8 | 73.2 | 78.2 | 60.6 | 71 | 70 |
| 26-Oct-23 | 13:00 | 69.3 | 72.9 | 56.5 | 69.4 | 73.5 | 57.4 | 65.3 | 71.3 | 55.3 | 71.1 | 72.4 | 58.8 | 73.6 | 77.9 | 57.6 | 71.9 | 76.3 | 57.7 | 71 | 70 |

| Noise Measu | uremen | ıt Resul | ts (dB) | of NMS2 | | | | | | | | | | | | | | | | | |
|-------------|---------------|----------|----------|---------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|-------|
| | Start | 1 st | t Leq (5 | min) | 2nd | Leq (5) | min) | 3rd | Leq (51 | min) | 4th | Leq (51 | nin) | 5th | Leq (51 | min) | 6th | Leq (5) | nin) | Leq30 | Limit |
| Date | Start Time | Leq, | | L90, | Leq, | L10, | L90, | Leq, | / | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | , | L90, | min, | Level |
| | - | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| 4-Oct-23 | 10:35 | 61.0 | 64.3 | 55.8 | 58.0 | 59.9 | 55.7 | 56.4 | 57.6 | 54.8 | 56.4 | 57.7 | 54.9 | 58.5 | 61.7 | 55.0 | 59.6 | 62.7 | 54.9 | 59 | 70 |
| 10-Oct-23 | 14:03 | 55.2 | 55.3 | 51.4 | 55.5 | 57.1 | 53.8 | 62.6 | 61.5 | 54.0 | 55.2 | 56.6 | 53.3 | 56.5 | 59.0 | 53.6 | 54.3 | 55.7 | 52.4 | 58 | 70 |
| 16-Oct-23 | 10:43 | 55.7 | 58.0 | 53.1 | 58.7 | 61.3 | 52.7 | 55.9 | 59.8 | 52.0 | 54.5 | 56.1 | 52.9 | 53.6 | 55.3 | 51.4 | 52.8 | 54.3 | 51.1 | 56 | 70 |
| 20-Oct-23 | 10:31 | 55.5 | 56.6 | 52.5 | 52.8 | 54.3 | 51.2 | 55.4 | 54.4 | 51.1 | 52.4 | 53.9 | 50.5 | 52.0 | 53.7 | 50.3 | 51.6 | 53.0 | 50.0 | 54 | 70 |
| 26-Oct-23 | 10:35 | 51.7 | 52.5 | 50.5 | 51.7 | 52.5 | 50.7 | 51.5 | 52.3 | 49.4 | 52.7 | 53.4 | 49.9 | 51.3 | 53.7 | 49.2 | 49.5 | 50.6 | 48.2 | 51 | 70 |

Noise Measurement Results (dB) of NMS3

| | Start | 1st | Leq (5n | nin) | 2nd | Leq (51 | min) | 3rd | Leq (51 | min) | 4th | Leq (51 | min) | 5th | Leq (51 | nin) | 6th | Leq (51 | nin) | Lag20min | Limit |
|-----------|---------------|---------------|---------------|---------------|---------------|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|---------------|---------------|---------------|------|--------------------|----------------|
| Date | Start Time | Leq, dB(A) | L10, dB(A) | L90, dB(A) | Leq, dB(A) | | L90, dB(A) | Leq, dB(A) | L10, dB(A) | L90, dB(A) | Leq, dB(A) | L10, dB(A) | L90, dB(A) | Leq, dB(A) | | L90, dB(A) | Leq, dB(A) | L10, dB(A) | L90, | Leq30min, dB(A) | Level dB(A) |
| 4-Oct-23 | 11:01 | 60.7 | 62.7 | 56.6 | 59.9 | 61.3 | 56.1 | 57.8 | 59.4 | 55.1 | 58.8 | 60.4 | 55.9 | 57.2 | 59.0 | 55.0 | 59.7 | 61.4 | 56.2 | 59 | 75 |
| 10-Oct-23 | 11:05 | 59.1 | 61.9 | 55.8 | 60.1 | 63.3 | 55.2 | 57.9 | 60.8 | 54.1 | 60.6 | 63.9 | 53.8 | 58.1 | 61.4 | 52.6 | 57.1 | 59.0 | 52.7 | 59 | 75 |
| 16-Oct-23 | 11:05 | 61.1 | 63.1 | 58.8 | 62.5 | 64.0 | 59.2 | 62.5 | 64.1 | 58.7 | 62.8 | 65.7 | 54.6 | 54.5 | 56.7 | 50.9 | 58.6 | 62.7 | 53.2 | 61 | 75 |
| 20-Oct-23 | 13:00 | 59.0 | 60.0 | 57.9 | 59.7 | 60.5 | 58.5 | 59.6 | 60.6 | 58.5 | 58.7 | 59.7 | 57.1 | 58.6 | 60.5 | 56.7 | 58.7 | 60.1 | 57.2 | 59 | 75 |
| 26-Oct-23 | 11:00 | 59.0 | 61.9 | 54.6 | 58.5 | 61.6 | 53.7 | 59.2 | 61.6 | 54.9 | 58.4 | 60.6 | 54.1 | 59.1 | 61.6 | 54.0 | 58.4 | 61.4 | 54.2 | 59 | 75 |

| Noise Mea | sureme | ent Resu | ılts (dB |) of NM | [S4a | | | | | | | | | | | | | | | | |
|-----------|--------|----------|----------|---------|-------|--------|-------|-------|--------|-------|-------|---------|-------|-------|---------|-------|-------|--------|-------|--------|-------|
| | Start | 1st | Leq (5r | nin) | 2nd | Leq (5 | min) | 3rd | Leq (5 | min) | 4th | Leq (5r | nin) | 5th | Leq (51 | nin) | 6th | Leq (5 | min) | Leq30m | Limit |
| Date | Time | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | in, | Level |
| | Time | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| 4-Oct-23 | 9:05 | 65.1 | 67.6 | 62.2 | 67.6 | 69.0 | 65.7 | 68.9 | 67.2 | 62.5 | 65.9 | 67.9 | 62.1 | 66.7 | 68.7 | 62.4 | 68.6 | 70.5 | 66.0 | 67 | 75 |
| 10-Oct-23 | 13:00 | 69.1 | 72.2 | 59.0 | 70.0 | 72.6 | 65.4 | 69.7 | 71.6 | 66.9 | 69.2 | 71.7 | 64.7 | 67.4 | 69.9 | 64.0 | 69.1 | 71.2 | 65.4 | 69 | 75 |
| 16-Oct-23 | 14:09 | 67.7 | 69.9 | 64.1 | 68.5 | 70.7 | 65.1 | 68.5 | 71.2 | 63.7 | 68.8 | 71.1 | 65.4 | 68.3 | 70.6 | 65.0 | 68.7 | 71.0 | 65.6 | 68 | 75 |
| 20-Oct-23 | 14:27 | 66.0 | 68.0 | 63.0 | 67.2 | 69.3 | 63.9 | 68.0 | 69.9 | 65.1 | 68.2 | 70.1 | 65.9 | 68.8 | 71.2 | 64.2 | 66.9 | 69.1 | 63.6 | 68 | 75 |

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| | 5 ((1 | (0.2 | (25) | (5.0 | (0.0 | (2,2) | (= 0 | (0.0 | (2.0 | (10 | (7.1) | 61.0 | (27) | (2.0 | (1.4 | (0.5 | $(2, \pi)$ | (1.1 | (5 | 7.5 |
|---------------|----------------|------|------|------|------|-------|-------|------|------|------|-------|------|------|------|------|------|------------|------|----|-----|
| 26-Oct-23 9:0 | 5 66.1 | 68.3 | 62.5 | 65.8 | 68.2 | 62.3 | 65.9 | 68.0 | 63.0 | 64.9 | | 61.9 | 62.7 | 63.8 | 61.4 | 62.5 | 63.7 | 61.1 | 65 | /5 |

| Noise Meas | uremen | t Result | ts (dB) (| of NMS | 5 | | | | | | | | | | | | | | | | |
|------------|---------------|----------|-----------|--------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|--------------------|-------|
| | Start | 1st | Leq (51 | nin) | 2nd | Leq (5) | min) | 3rd | Leq (5) | min) | 4th | Leq (5r | nin) | 5th | Leq (51 | min) | 6th | Leq (5) | nin) | Lag20min | Limit |
| Date | Start Time | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq30min, dB(A) | Level |
| | TIME | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | uD(A) | dB(A) |
| 4-Oct-23 | 9:55 | 61.4 | 63.7 | 58.5 | 61.8 | 64.0 | 58.9 | 62.3 | 64.8 | 58.8 | 60.5 | 61.3 | 59.3 | 60.2 | 61.8 | 58.5 | 61.4 | 63.1 | 58.0 | 61 | 75 |
| 10-Oct-23 | 10:51 | 59.4 | 61.0 | 57.2 | 60.7 | 63.6 | 57.6 | 60.6 | 63.5 | 57.3 | 61.0 | 64.3 | 57.5 | 60.5 | 63.3 | 57.5 | 59.1 | 60.1 | 57.4 | 60 | 75 |
| 16-Oct-23 | 13:15 | 62.9 | 64.9 | 60.8 | 63.8 | 65.6 | 61.0 | 65.3 | 67.5 | 61.0 | 66.4 | 69.1 | 62.3 | 64.0 | 66.1 | 60.4 | 62.5 | 64.8 | 60.3 | 64 | 75 |
| 20-Oct-23 | 13:31 | 62.1 | 63.2 | 60.7 | 62.5 | 64.0 | 60.9 | 62.0 | 63.2 | 60.7 | 61.9 | 63.4 | 60.4 | 61.6 | 63.0 | 60.2 | 61.6 | 62.9 | 60.4 | 62 | 75 |
| 26-Oct-23 | 9:55 | 53.6 | 56.7 | 49.2 | 52.6 | 55.2 | 49.2 | 51.6 | 54.6 | 47.9 | 52.4 | 55.6 | 48.2 | 52.4 | 55.3 | 48.9 | 52.4 | 55.3 | 48.8 | 53 | 75 |

| Noise Meas | uremei | nt Resu | lts (dB) | of NM | S6 | | | | | | | | | | | | | | | | |
|------------|---------------|---------------|---------------|---------------|---------------|---------|---------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|------|--------------------|----------------|
| | Start | 1st | Leq (5n | nin) | 2nd | Leq (5) | min) | 3rd | Leq (51 | nin) | 4th | Leq (51 | nin) | 5th | Leq (51 | nin) | 6th | Leq (51 | nin) | Lag20min | Limit |
| Date | Start Time | Leq, dB(A) | L10, dB(A) | L90, dB(A) | Leq, dB(A) | | L90, dB(A) | 1/ | L10, dB(A) | L90, dB(A) | Leq, dB(A) | L10, dB(A) | L90, dB(A) | Leq, dB(A) | L10, dB(A) | L90, dB(A) | Leq, dB(A) | | L90, | Leq30min, dB(A) | Level dB(A) |
| 4-Oct-23 | 10:15 | 62.9 | 64.3 | 61.3 | 62.2 | 62.5 | 61.9 | 62.6 | 62.9 | 61.2 | 62.2 | 62.0 | 61.1 | 68.0 | 67.2 | 62.5 | 66.8 | 67.7 | 65.3 | 65 | 75 |
| 10-Oct-23 | 10:15 | 61.2 | 63.8 | 57.1 | 61.8 | 64.6 | 56.9 | 60.6 | 63.4 | 57.0 | 60.8 | 63.7 | 57.4 | 60.1 | 62.4 | 56.8 | 62.9 | 66.2 | 55.6 | 61 | 75 |
| 16-Oct-23 | 10:20 | 60.7 | 62.8 | 57.6 | 61.0 | 63.2 | 57.0 | 60.1 | 62.5 | 56.3 | 60.5 | 63.2 | 56.8 | 59.1 | 61.4 | 55.4 | 61.5 | 64.3 | 56.8 | 61 | 75 |
| 20-Oct-23 | 10:30 | 54.2 | 55.1 | 52.8 | 52.4 | 53.6 | 51.0 | 52.4 | 53.6 | 51.3 | 54.8 | 56.3 | 52.2 | 61.4 | 64.0 | 54.4 | 62.6 | 65.5 | 57.5 | 58 | 75 |
| 26-Oct-23 | 10:10 | 58.5 | 60.3 | 56.0 | 57.4 | 58.7 | 56 | 57.3 | 58.7 | 55.6 | 57.1 | 58.5 | 55.1 | 56.3 | 57.6 | 54.8 | 55.3 | 56.2 | 53.6 | 57 | 75 |

| Noise Meas | uremei | 1t Resul | ts (dB) | of NMS | 57 | | | | | | | | | | | | | | | | |
|------------|---------------|----------|---------|--------|-------|--------|-------|-------|--------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|--------------------|-------|
| | Start | 1st | Leq (5r | nin) | 2nd | Leq (5 | min) | 3rd | Leq (5 | min) | 4th | Leq (51 | min) | 5th | Leq (51 | nin) | 6th | Leq (5) | min) | Lag20min | Limit |
| Date | Start Time | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq30min, dB(A) | Level |
| | Time | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | uD(A) | dB(A) |
| 4-Oct-23 | 9:30 | 55.6 | 57.7 | 50.7 | 58.6 | 60.7 | 50.9 | 59.8 | 58.9 | 54.8 | 57.2 | 58.4 | 54.7 | 56.8 | 58.3 | 54.6 | 57.0 | 58.3 | 53.9 | 58 | 75 |
| 10-Oct-23 | 9:25 | 60.9 | 62.5 | 58.0 | 61.2 | 63.3 | 58.5 | 62.2 | 64.0 | 58.9 | 63.4 | 66.1 | 59.5 | 61.6 | 64.2 | 58.4 | 61.5 | 63.6 | 57.5 | 62 | 75 |
| 16-Oct-23 | 9:30 | 58.6 | 61.0 | 55.8 | 57.0 | 58.1 | 55.3 | 57.1 | 58.3 | 54.8 | 56.2 | 57.6 | 54.0 | 57.1 | 59.2 | 54.5 | 56.2 | 57.6 | 53.3 | 57 | 75 |
| 20-Oct-23 | 9:45 | 52.7 | 53.8 | 50.3 | 50.8 | 51.8 | 49.5 | 50.9 | 52.0 | 49.7 | 51.7 | 53.1 | 50.0 | 51.9 | 53.7 | 50.1 | 61.5 | 63.5 | 53.9 | 56 | 75 |
| 21-Oct-23 | 9:25 | 53.3 | 54.3 | 52.0 | 53.9 | 54.9 | 52.8 | 52.8 | 53.8 | 51.5 | 53.6 | 54.8 | 51.4 | 53.6 | 54.6 | 52.2 | 55.7 | 54.7 | 52.2 | 54 | 75 |

| Noise Measu | iremen | t Resul | ts (dB) | of NMS | 8 | | | | | | | | | | | | | | | | |
|-------------|---------------|---------|---------|--------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|--------------------|-------|
| | Start | 1st | Leq (5n | nin) | 2nd | Leq (5) | min) | 3rd | Leq (5) | min) | 4th | Leq (51 | nin) | 5th | Leq (51 | nin) | 6th | Leq (51 | nin) | Lag20min | Limit |
| Date | Start Time | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq30min, dB(A) | Level |
| | Time | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | uD(A) | dB(A) |
| 4-Oct-23 | 13:08 | 60.4 | 63.6 | 51.3 | 58.6 | 62.7 | 50.7 | 60.2 | 62.4 | 51.7 | 60.5 | 63.8 | 51.3 | 60.4 | 62.5 | 47.7 | 58.2 | 60.1 | 50.6 | 60 | 75 |
| 10-Oct-23 | 13:10 | 65.4 | 65.4 | 53.7 | 61.8 | 67.0 | 53.3 | 62.3 | 63.8 | 53.8 | 58.5 | 61.4 | 53.6 | 58.9 | 61.4 | 53.6 | 62.1 | 65.7 | 54.1 | 62 | 75 |
| 16-Oct-23 | 13:10 | 58.9 | 62.5 | 49.9 | 59.8 | 64.1 | 50.3 | 58.7 | 61.9 | 49.4 | 62.1 | 65.4 | 51.4 | 61.1 | 63.4 | 54.3 | 58.4 | 61.1 | 49.0 | 60 | 75 |

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| 20-Oct-23 | 14:15 | 54.9 | 58.4 | 49.1 | 55.1 | 58.5 | 47.5 | 58.4 | 61.1 | 52.5 | 58.4 | 60.9 | 52.9 | 63.6 | 63.2 | 49.7 | 57.2 | 59.4 | 52.5 | 59 | 75 |
|-----------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|
| 26-Oct-23 | 13:15 | 59.0 | 62.3 | 51.0 | 59.9 | 62.5 | 51.9 | 60.6 | 61.7 | 51.7 | 59.6 | 62.6 | 50.5 | 59.4 | 62.7 | 47.9 | 57.2 | 61.4 | 48.8 | 59 | 75 |

NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

| Noise Measu | uremer | nt Resu | lts (dB) | of CN3 | | | | | | | | | | | | | | | | | |
|-------------|---------------|---------|----------|--------|-------|---------|-------|-------|--------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|--------------------|-------|
| | Start | 1st | Leq (5n | nin) | 2nd | Leq (5) | min) | 3rd | Leq (5 | min) | 4th | Leq (51 | nin) | 5th | Leq (51 | nin) | 6th | Leq (5) | min) | Lag20min | Limit |
| Date | Start Time | Leq, | L10, | L90, | Leq, | | L90, | Leq, | L10, | L90, | Leq, | L10, | L90, | Leq, | | L90, | Leq, | L10, | L90, | Leq30min, dB(A) | Level |
| | | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | () | dB(A) |
| 4-Oct-23 | 11:25 | 62.5 | 64.5 | 60.2 | 62.2 | 64.2 | 60.0 | 63.3 | 65.4 | 60.8 | 63.1 | 64.8 | 60.2 | 61.5 | 64.1 | 57.8 | 60.3 | 63.1 | 57.6 | 62 | 75 |
| 10-Oct-23 | 9:36 | 59.6 | 63.4 | 56.5 | 60.6 | 63.9 | 56.8 | 60.5 | 62.3 | 57.6 | 59.2 | 61.7 | 56.4 | 59.0 | 61.6 | 56.8 | 61.8 | 63.6 | 57.2 | 60 | 75 |
| 16-Oct-23 | 9:45 | 59.8 | 62.3 | 56.5 | 61.2 | 63.7 | 58.4 | 61.0 | 63.2 | 57.2 | 59.8 | 61.8 | 56.4 | 61.1 | 63.6 | 55.6 | 62.4 | 64.6 | 59.2 | 61 | 75 |
| 20-Oct-23 | 9:42 | 63.2 | 65.1 | 59.1 | 61.7 | 64.2 | 59.3 | 61.2 | 63.8 | 57.1 | 61.3 | 63.8 | 58.0 | 62.4 | 64.4 | 59.9 | 63.7 | 66.0 | 60.5 | 62 | 75 |
| 26-Oct-23 | 11:25 | 61.3 | 65.0 | 55.6 | 58.8 | 61.9 | 54.8 | 61.8 | 64.8 | 55.2 | 61.2 | 64.7 | 55.6 | 62.5 | 65.1 | 56.7 | 62.2 | 65.7 | 56.9 | 61 | 75 |

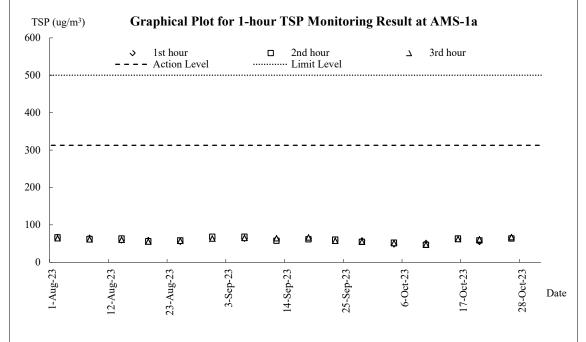


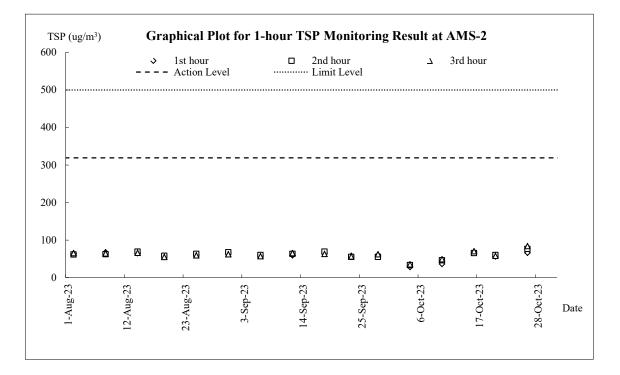
Appendix I

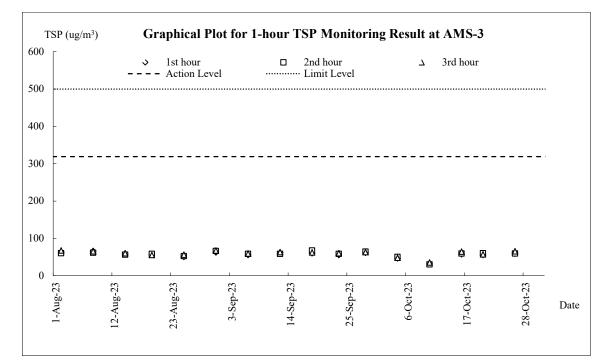
Graphical Plots for Monitoring Result



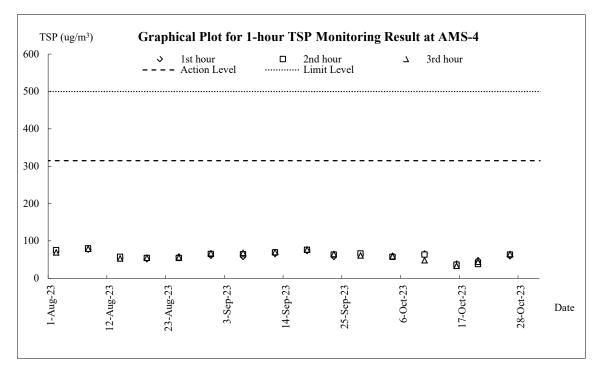
Air Quality – 1-hour TSP



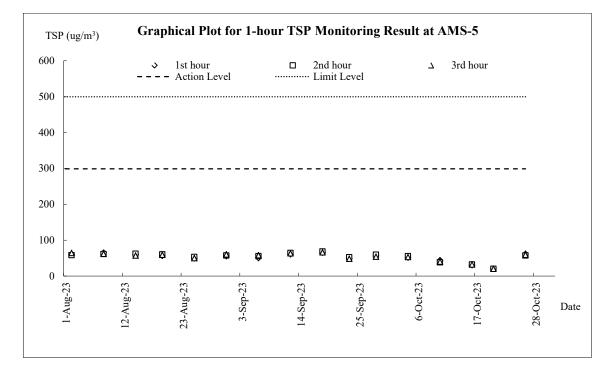


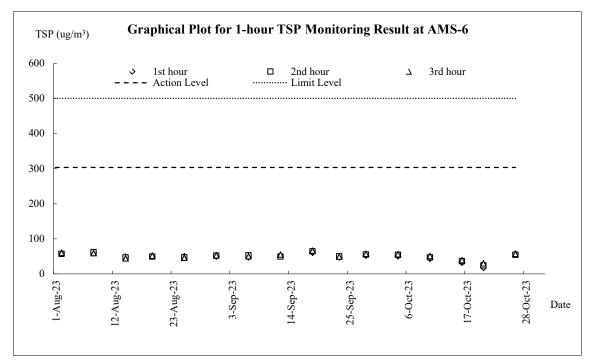


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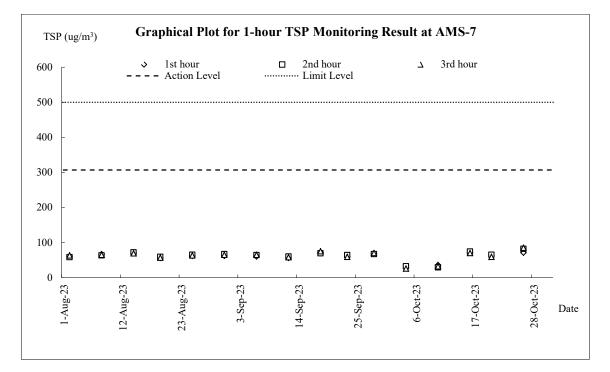






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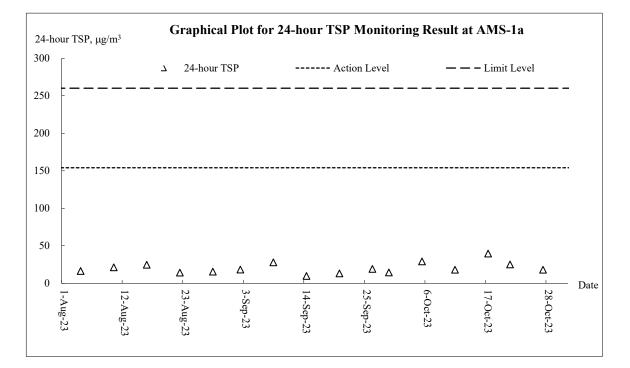


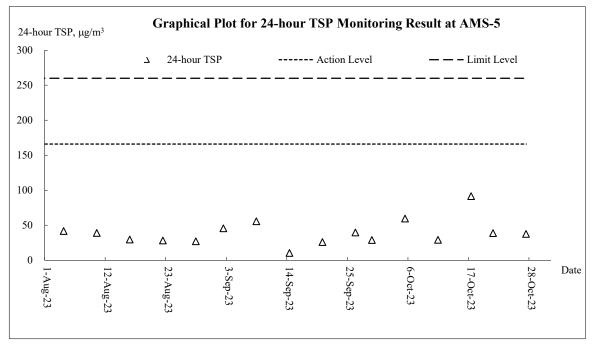


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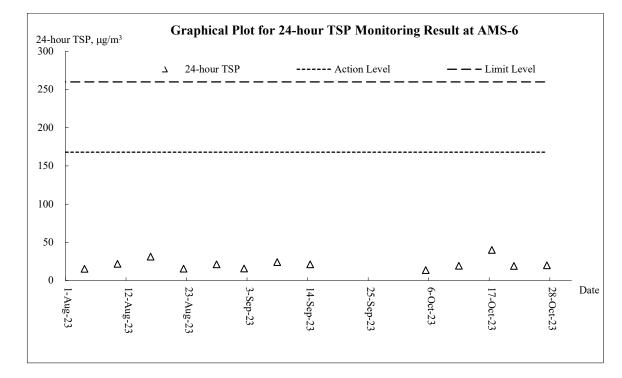


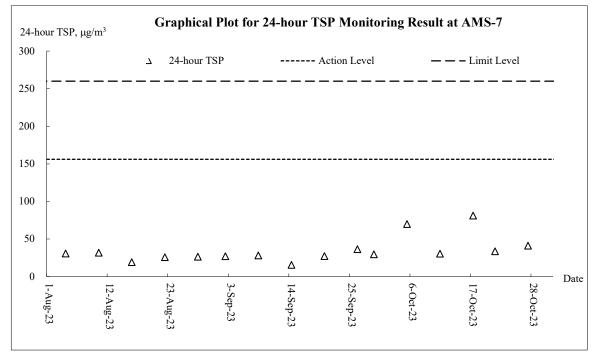
Air Quality – 24-hour TSP





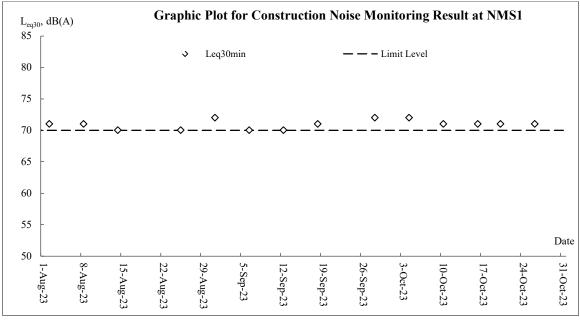


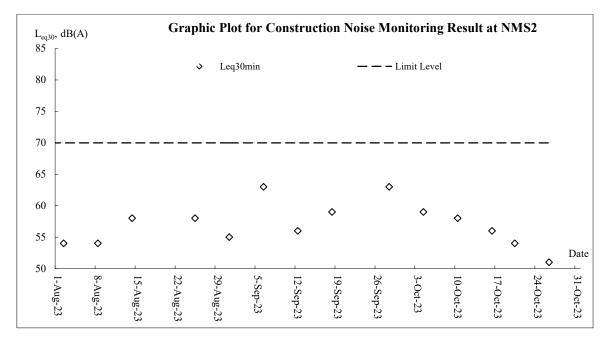




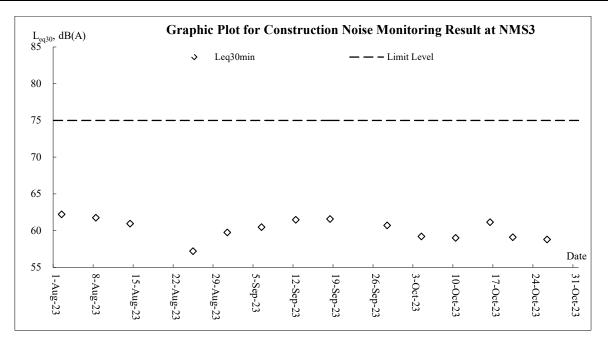


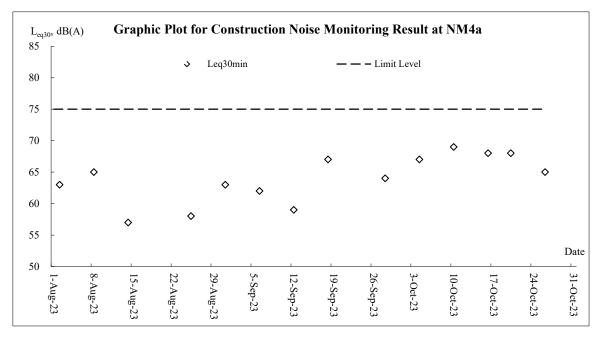
Noise



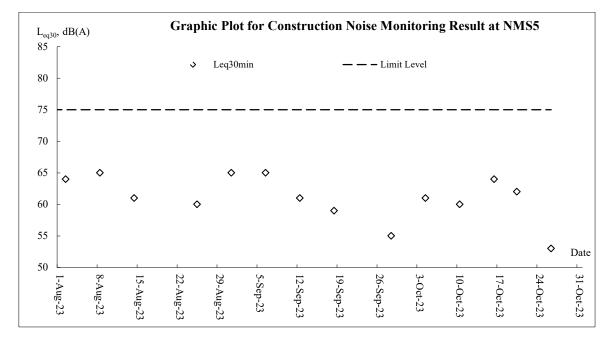


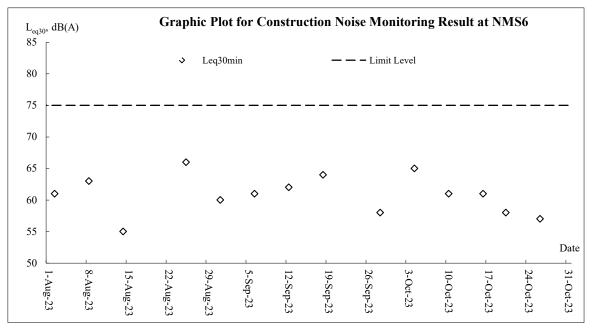




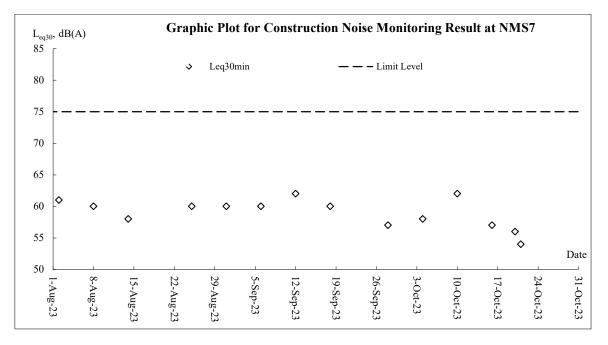


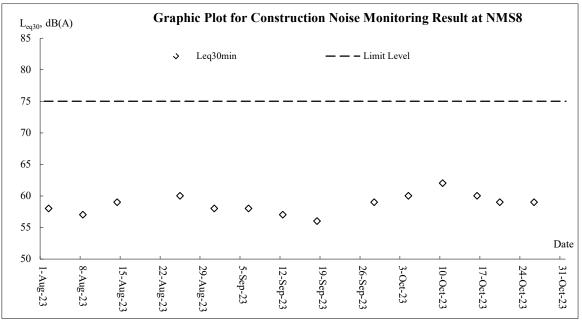




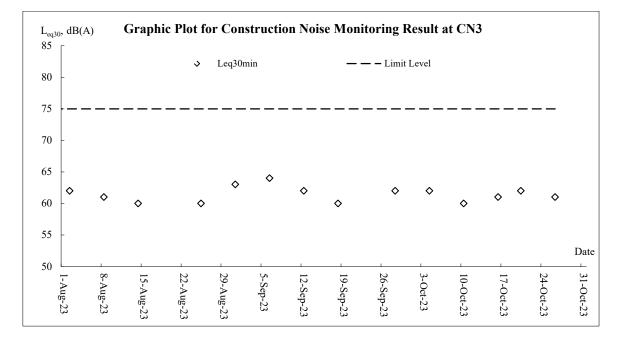














Appendix J

Meteorological Data



| onthly Enviro | nment | al Monitoring & Audit Report (October 2023) | | | | | |
|---------------|-------|--|------------------|------------------------------|-------------------------|-------------------|-------------------------------------|
| | | | Total | Kwun Tong Station | Kai Tal | k Station | King's Park Station |
| Date | | Weather | Rainfall (mm) | Mean Air Temp. (°C) | Wind Speed (km/h) | Wind Direction | Mean Relative Humidity (%) |
| 1-Oct-23 | Sun | Dry with sunny periods. | 0 | 29.9 | 13.7 | SE | 70 |
| 2-Oct-23 | Mon | Very hot in the afternoon. | 0.4 | 28.8 | 14.2 | SE | 74 |
| 3-Oct-23 | Tue | One or two squally showers later. | Trace | 29.2 | 6 | S/SE | 77.5 |
| 4-Oct-23 | Wed | Moderate to fresh northerly winds. | 0 | 30.9 | 8.7 | N/NW | 70 |
| 5-Oct-23 | Thu | There will be swells. | 0 | 30.2 | 11.2 | N/NW | 55 |
| 6-Oct-23 | Fri | Dry with sunny periods. | Trace | 28.1 | 10 | N/NW | 60 |
| 7-Oct-23 | Sat | Showers will be heavy at times. | Trace | 28.1 | 15 | N/NW | 75.5 |
| 8-Oct-23 | Sun | Strong east to northeasterly winds, weakening gradually later. | 92.2 | 23.5 | 24.5 | NE | 89.7 |
| 9-Oct-23 | Mon | Seas will be rough with swells. | 369.7 | 23.7 | 18 | E/SE | 94.2 |
| 10-Oct-23 | Tue | Mainly fine in the afternoon. | 2.3 | 24.7 | 9.7 | N/NE | 83.7 |
| 11-Oct-23 | Wed | Moderate northeasterly winds | 0 | 25.2 | 10 | NE | 71.5 |
| 12-Oct-23 | Thu | Sunny periods. Moderate northeasterly winds. | 0 | 25.4 | 8.7 | N/NE | 70.2 |
| 13-Oct-23 | Fri | Mainly fine and dry in the afternoon. | 0 | 27 | 8 | N/NE | 68.5 |
| 14-Oct-23 | Sat | Cloudy periods tonight. | 0 | 26.5 | 7.6 | S/SE | 63.5 |
| 15-Oct-23 | Sun | Moderate east to northeasterly winds. | 0.1 | 26.4 | 10.7 | E/SE | 69.5 |
| 16-Oct-23 | Mon | Mainly cloudy with one or two light rain patches tonight. | 0 | 26.1 | 14 | E/SE | 68.5 |
| 17-Oct-23 | Tue | Cloudy with a few showers. | Trace | 24.7 | 4.7 | E/SE | 55 |
| 18-Oct-23 | Wed | Fresh easterly winds, strong offshore | 38.3 | 23.3 | 17.5 | E/SE | 81.5 |
| 19-Oct-23 | Thu | Mainly cloudy with a few showers. | 27.9 | 24.5 | 15 | Е | 92.2 |
| 20-Oct-23 | Fri | Mainly cloudy tonight. | 0.2 | 25.1 | 10 | E/SE | 81.2 |
| 21-Oct-23 | Sat | Moderate easterly winds. | Trace | 22.2 | 9.8 | E.SE | 79.5 |
| 22-Oct-23 | Sun | Sunny periods in the afternoon. | Trace | 24.2 | 9.5 | SE | 77 |
| 23-Oct-23 | Mon | Mainly cloudy tonight. | Trace | 25.8 | 10 | SE | 73 |
| 24-Oct-23 | Tue | Moderate east to northeasterly winds. | 0 | 26.2 | 10.5 | SE | Maintenan ce |
| 25-Oct-23 | Wed | Bright periods during the day tomorrow. | 0 | 26.3 | 11.2 | SE | 77.5 |
| 26-Oct-23 | Thu | Mainly cloudy. One or two showers | 0 | 25.9 | 9.5 | SE | 75 |
| 27-Oct-23 | Fri | Moderate easterly winds, fresh later tomorrow. | 0 | 26.5 | 8.7 | SE | 79.2 |
| 28-Oct-23 | Sat | Mainly cloudy with sunny periods. | 9.5 | 24.6 | 11.5 | SE | 78 |
| 29-Oct-23 | Sun | Moderate east to northeasterly winds | 3.5 | 25 | 14.7 | E/SE | 72.5 |
| 30-Oct-23 | Mon | Fine and dry. | Trace | 26 | 10 | S/SE | 72.5 |
| 31-Oct-23 | Tue | Moderate east to northeasterly winds | 0 | 25.3 | 10 | SE | 67.5 |



Appendix K

Waste Flow Table

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Contract No.: NE/2017/03

Development of Anderson Road Quarry Site - Road Improvement Works and Pedestrian Connectivity Facilities Works Phase 2A

| | | Actual Quar | ntities of Inert C& | D Materials Generat | ted Monthly | | | Actual Quantities | of C&D Wastes (| Generated Monthly | |
|-----------------------|-----------------------------|---|---|---|----------------------------|--------------------------|--------------|-------------------------------|--------------------------|--------------------------------|--------------------------------|
| Month | Total Quantity Generated | Hard Rock and Large Broken Concrete | Reused in the Contract (see Note 6) | Reused in other Projects (see Note 6) | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging | Plastics (see Note 3) | Chemical Waste (see Note 5) | 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) |
| Jan | 1.318 | 0.000 | 0.105 | 0.707 | 0.506 | 0.000 | 0.006 | 0.120 | 0.232 | 0.000 | 0.026 |
| Feb | 1.518 | 0.000 | 0.390 | 0.712 | 0.415 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.040 |
| Mar | 2.316 | 0.000 | 1.035 | 0.372 | 0.908 | 0.081 | 0.000 | 0.000 | 0.000 | 0.000 | 0.033 |
| Apr | 2.473 | 0.000 | 0.518 | 0.000 | 1.956 | 0.221 | 0.000 | 0.000 | 0.000 | 0.000 | 0.027 |
| May | 3.818 | 0.000 | 1.260 | 0.326 | 2.232 | 0.210 | 0.000 | 0.000 | 0.000 | 0.000 | 0.041 |
| Jun | 1.969 | 0.000 | 0.938 | 0.000 | 1.032 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.041 |
| Sub-total | 13.412 | 0.000 | 4.245 | 2.118 | 7.049 | 0.512 | 0.006 | 0.120 | 0.232 | 0.000 | 0.208 |
| Jul | 2.175 | 0.000 | 0.405 | 0.000 | 1.770 | 0.092 | 0.000 | 0.000 | 0.000 | 0.000 | 0.094 |
| Aug | 1.851 | 0.000 | 0.510 | 0.087 | 1.254 | 1.464 | 0.0004 | 0.000 | 0.007 | 0.000 | 0.060 |
| Sep | 1.690 | 0.000 | 0.635 | 0.000 | 1.055 | 0.000 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.017 |
| Oct (update to 19/10) | 1.037 | 0.000 | 0.620 | 0.000 | 0.417 | 0.000 | 0.0118 | 0.000 | 0.000 | 0.000 | 0.029 |
| Nov | | | | | | | | | | | |
| Dec Total | 20.165 | 0.000 | 6.415 | 2.206 | 11.545 | 2.068 | 0.018 | 0.120 | 0.239 | 0.000 | 0.409 |

Monthly Summary Waste Flow Table for <u>2023 (year)</u>

Notes:

(1) The performance targets are given in PS Clause 1.129 (4).

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

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material and waste will be collected by recycler for recycling.

(4) Use the conversion factor, density of general refuse (1 t/m^3) and inert C&D materials (2 t/m^3) .

(5) Use the conversion factor for chemical waste (0.88kg/L).

(6) Assume a dump truck delivers 7.5 m^3 material in 1 trip.

Contract No.: ED/2020/02

APPENDIX 2

| | Actual Q | Quantities of | Inert C&D | Materials G | enerated M | onthly | Actual Q | uantities of | C&D Waste | s Generated | l Monthly |
|-------|---|--|---------------------------|--------------------------------|-----------------------------|---------------------------|--------------|----------------------------------|--------------|-------------------|--------------------------------|
| Month | Total Quantity of Materials Generated | Hard Rock, Large Broken Concrete | Reused in the Contract | Reused in other Projects | Disposed as Public Fill | Imported Fill | Metals | Paper/ cardboard packaging | Plastics | Chemical Waste | Others, e.g. general refuse |
| | (in '000 m ³) | (in '000 m ³) | (in '000 m ³) | (in '000 m ³) | (in '000 m ³)** | (in '000 m ³) | (in '000 kg) | (in '000 kg) | (in '000 kg) | (in '000 kg) | (in '000 m ³)* |
| Jan | 1.106 | 0.000 | 0.000 | 0.000 | 1.106 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.015 |
| Feb | 0.630 | 0.000 | 0.000 | 0.000 | 0.630 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.014 |
| Mar | 0.256 | 0.000 | 0.000 | 0.000 | 0.256 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.028 |
| Apr | 0.130 | 0.000 | 0.000 | 0.000 | 0.130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.014 |
| May | 0.602 | 0.000 | 0.000 | 0.000 | 0.602 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.018 |
| June | 4.538 | 0.000 | 0.000 | 0.000 | 4.538 | 2.432 | 0.000 | 0.000 | 0.000 | 0.000 | 0.131 |
| July | 5.650 | 0.000 | 0.000 | 0.000 | 5.650 | 7.737 | 0.000 | 0.000 | 0.000 | 0.000 | 0.032 |
| Aug | 0.211 | 0.000 | 0.000 | 0.000 | 0.211 | 0.493 | 0.000 | 0.000 | 0.000 | 0.000 | 0.660 |
| Sep | 0.051 | 0.000 | 0.000 | 0.000 | 0.051 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.113 |
| Oct | 0.495 | 0.000 | 0.000 | 0.000 | 0.495 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.055 |
| Nov | 0.200# | | | | 0.200# | | | | | | |
| Dec | | | | | | | | | | | |
| Total | 13.669 | 0.000 | 0.000 | 0.000 | 13.669 | 10.662 | 0.000 | 0.000 | 0.000 | 0.000 | 1.080 |

Monthly Summary Waste Flow Table for 2023

Notes: * Conversion factor for general refuse, 1 tonne = $2m^3$

** Conversion factor for general fill, 2 tonne = $1m^3$

Estimation for next month

| Wing Lee – Univic Joint Venture | Rev. No. | 31 |
|--|------------|--------------|
| ED/2019/02 - Environmental Management Plan | Janua Data | 21 0 -+ 2022 |
| Appendices - Appendix 13 | Issue Date | 31-Oct-2023 |

Name of Department : <u>CEDD</u>

Contract No. : _____ED/2019/02

Monthly Summary Waste Flow Table for 2023 (year)

| .; | | | | <u></u> | , , , , , , , , , , , , , , , , , , , | | | <u>()</u> () | | | |
|-----------|--------------------------------|--|---------------------------|---------------------------|--|---------------------------|--------------|----------------------------------|--------------------------|--------------------|--------------------------------|
| | | | ities of Inert Ca | &D Materials G | enerated Mon | thly | Annu | al Quantities of | C&D Material | s Generated N | Ionthly |
| Month | Total Quantity Generated | Hard Rock & 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) | Chemicals Waste | Others, e.g. general refuse |
| | (in '000 m ³) | (in '000 m ³) | (in '000 m ³) | (in '000 m ³) | (in '000 m ³) | (in '000 m ³) | (in '000 kg) | (in '000 kg) | (in '000 kg) | (in '000 kg) | (in '000 m ³) |
| Jan | 0.063 | 0.063 | 0 | 0 | 0.063 | 0 | 0 | 0 | 0 | 0 | 0.016 |
| Feb | 0.010 | 0.008 | 0.002 | 0 | 0.008 | 0 | 0 | 0 | 0 | 0 | 0.067 |
| Mar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Apr | 0.003 | 0.003 | 0 | 0 | 0.003 | 0 | 0 | 0 | 0 | 0 | 0.026 |
| May | 0.267 | 0.265 | 0.002 | 0 | 0.265 | 0 | 0 | 0 | 0 | 0 | 0.013 |
| June | 0.361 | 0.358 | 0.003 | 0 | 0.358 | 0 | 0 | 0 | 0 | 0 | 0.062 |
| Sub-total | 0.704 | 0.697 | 0.007 | 0 | 0.697 | 0 | 0 | 0 | 0 | 0 | 0.184 |
| July | 0.236 | 0.234 | 0.002 | 0 | 0.234 | 0 | 0 | 0 | 0 | 0 | 0.023 |
| Aug | 0.332 | 0.330 | 0.002 | 0 | 0.330 | 0 | 0 | 0 | 0 | 0 | 0.051 |
| Sep | 0.244 | 0.242 | 0.002 | 0 | 0.242 | 0 | 0 | 0 | 0 | 0 | 0.059 |
| Oct | 0.189 | 0.187 | 0.002 | 0 | 0.187 | 0 | 0 | 0 | 0 | 0 | 0.072 |
| Nov | | | | | | | | | | | |
| Dec | | | | | | | | | | | |
| Total | 1.705 | 1.690 | 0.015 | 0 | 1.690 | 0 | 0 | 0 | 0 | 0 | 0.389 |

Notes: (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 material.



Appendix L

Implementation Schedule for Environmental Mitigation Measures



| EM&A | Decommonded Mitisotion Measures | Objectives of the Recommended | Who to | Location of the | | Imple | ementation S | Status | |
|---------------------|--|--|----------------------------|---------------------------|----------|--------------|--------------|---------------|---------------|
| Ref. | Recommended Mitigation Measures | Measures & Main Concern to Address | implement the measures? | measure | Contract | Contract 2 | Contract 3 | Contract 4 | Contract 5 |
| | Dust Impact (Contraction I | | | | | | | | |
| S4.7.2 to S4.7.5 | Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal efficiency of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.75 L/m^2 to achieve the respective dust removal efficiencies. | Minimize dust impact at the nearby sensitive receivers | Contractor | All construction sites | V | V | V | V | V |
| S4.7.6 | The Contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction ion Dust) Regulation. | Minimize dust impact at the nearby sensitive receivers | Contractor | All construction sites | V | V | V | V | V |
| S4.7.6 | Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wet ted with water and cleared from the surface of roads; A stockpile of dusty materials should not be extend beyond the pedestrian barriers, fencing or traffic cones; The load of dusty materials on a vehicle leaving a construction ion site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vchicle; Where practicable, vchicle washing facilities with high pressure water jet should be provided at every discernible or designated vchicle exit point. The area where vchicle washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; When there are open excavation and reinstatement | Minimize dust impact at the nearby sensitive receivers | Contractor | All construction sites | @ | [@] | @ | @ | @ |



| | | | Objectives of the | XX /1 / | | | Imple | ementation S | Status | |
|--------------|---|---|--------------------------------|--------------------------------------|-------------------------|----------|----------|--------------|----------|----------|
| EM&A Ref. | | Recommended Mitigation Measures | Recommended Measures & Main | Who to implement the measures? | Location of the measure | Contract | Contract | Contract | Contract | Contract |
| | | | Concern to Address | incasul es. | | 1 | 2 | 3 | 4 | 5 |
| | | works, hoarding of not less than 2.4m high should | | | | | | | | |
| | | be provided as far as practicable along the site boundary with provision for public crossing. Good | | | | | | | | |
| | | site practice shall also be adopted by the Contractor | | | | | | | | |
| | | to ensure the conditions of the hoardings are | | | | | | | | |
| | | properly maintained throughout the construction ion | | | | | | | | |
| | | period. | | | | | | | | |
| | • | The port ion of any road leading only to | | | | | | | | |
| | | construction ion site that is within 30m of a vehicle | | | | | | | | |
| | | entrance or exit should be kept clear of dusty | | | | | | | | |
| | | materials; | | | | | | | | |
| | • | Surfaces where any pneumatic or power-driven | | | | | | | | |
| | | drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed | | | | | | | | |
| | | with water or a dust suppression chemical | | | | | | | | |
| | | continuously; | | | | | | | | |
| | • | Any area that involves demolition activities should | | | | | | | | |
| | | be sprayed with water or a dust suppression | | | | | | | | |
| | | chemical immediately prior to, during and | | | | | | | | |
| | | immediately after the activities so as to maintain the | | | | | | | | |
| | | entire surface wet; | | | | | | | | |
| | • | Where a scaffolding is erected around the perimeter of a building under construction, effective dust | | | | | | | | |
| | | screens, sheeting or netting should be provided to | | | | | | | | |
| | | enclose the scaffolding from the ground floor level | | | | | | | | |
| | | of the building, or a canopy should be provided | | | | | | | | |
| | | from the first floor level up to the highest level of | | | | | | | | |
| | | the scaffolding; | | | | | | | | |
| | • | Any skip hoist for material transport should be | | | | | | | | |
| | | totally enclosed by impervious sheeting; | | | | | | | | |
| | • | Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered | | | | | | | | |
| | | entirely by impervious sheeting or placed in an area | | | | | | | | |
| | | sheltered on the top and the 3 sides; | | | | | | | | |
| | • | Cement or dry PFA delivered in bulk should be | | | | | | | | |
| | | stored in a closed silo fit ted with an audible high | | | | | | | | |
| | | level alarm which is interlocked with the material | | | | | | | | |
| | | filling line and no overfilling is allowed; and | | | | | | | | |
| | • | Exposed earth should be properly treated by | | | | | | | | |
| | | compact ion, turfing, hydroseeding, vegetation | | | | | | | | |
| | | planting or sealing with latex, vinyl, bitumen, | | | | | | | | |



| EM&A | | Objectives of the Recommended | Who to | Location of the | | Imple | ementation | Status | |
|-----------------------|--|---|--|--|----------|------------|------------|----------|---------------|
| Ref. | Recommended Mitigation Measures | Measures & Main Concern to Address | implement the measures? | measure | Contract | Contract 2 | Contract 3 | Contract | Contract 5 |
| | shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies. | | | | | | | | |
| S4.7.7 | Implement regular dust monitoring under EM&A programme during the Construction phase. | Control construction airborne noise | Selected Representative dust monitoring station | All construction sites where practicable | V | N/A | V | N/A | N/A |
| | Noise Impact (Contraction | Phase) | • | | | | | • | • |
| S5.6.9 | Implement the following good site management practices: only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction ion programme; machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; plant known to emit noise strongly in one direct ion, where possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction ion equipment should be properly fit ted and maintained during the construction ion works; mobile plant should be sited as far away from NSRs as possible and practicable; and material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. | Control construction ion airborne noise | Contractor | All construction sites where practicable | @ | V | V | @ | @ |
| S5.6.11 to S5.6.13 | Use of "Quiet" Plant and Working Methods. | Reduce the noise levels of plant items | Contractor | All construction sites where practicable | V | N/A | N/A | N/A | N/A |
| S5.6.14 | Install temporary site hoarding (approx 2.5m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period. | Reduce the construction ion noise levels at low-level zone of NSRs through partial screening. | Contractor | All construction sites where practicable | V | V | V | V | V |
| S5.6.15 to S5.6.18 | Install movable noise barriers, full enclosure and acoustic mat, screen the noisy plants including air compressor and generator. | Screen the noisy plant items to be used at all construction sites | Contractor | All construction ion sites where practicable | V | V | N/A | V | N/A |
| S5.6.19 | Sequencing operation of construction plants equipment. | Operate sequentially | Contractor | All construction | V | V | N/A | N/A | N/A |

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| | | Objectives of the | | | | Imple | ementation S | Status | |
|--------------|---|--|--------------------------------------|---|----------|----------|--------------|----------|----------|
| EM&A Ref. | Recommended Mitigation Measures | Recommended Measures & Main | Who to implement the measures? | Location of the measure | Contract | Contract | Contract | Contract | Contract |
| | | Concern to Address | | | 1 | 2 | 3 | 4 | 5 |
| | | within the same work site to reduce the construction airborne noise | | ion sites where practicable | | | | | |
| \$5.6.34 | Implement temporary noise barrier along Road L4. | Further reduce the construction ion airborne noise | Contractor | Road L4 of ARQ | N/A | N/A | N/A | N/A | N/A |
| \$5.6.35 | Implement a noise monitoring under EM&A programme. | Monitor the construction noise levels at the selected representative locations | Contractor | Selected Representative Noise monitoring stations | V | N/A | V | N/A | N/A |
| В | Water Quality Impact (Cor | traction Phase) | | | | | | | |
| S6.6.3 | <u>Construction Runoff</u> In accordance with the Practice Note for Professional Persons on Construction ion Site Drainage, Environmental Protect ion Department , 1994 (ProPECC PN 1/94), best management practices should be implemented as far as practicable as below: At the start of site establishment , perimeter cut -off drains to direct off-site water around the site should be constructed with internal drainage works. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipment in order to avoid or minimize polluted runoff. Sediment at ion tanks with sufficient capacity, constructed from preformed individual cells of approximately 6 to 8 m³ capacities, are recommended as a general mitigation measure which can be used for set t ling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple inputs from a variety of sources and suited to applications where the influent is pumped. | Control construction runoff | Contractor | All construction sites | @ | @ | @ | @ | V |



| | | Objectives of the | Who to | | | Imple | ementation S | Status | |
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| EM&A Ref. | Recommended Mitigation Measures | Recommended Measures & Main Concern to Address | implement the measures? | Location of the measure | Contract | Contract 2 | Contract 3 | Contract 4 | Contract 5 |
| | The dikes or embankments for flood protect ion should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt /sediment t rap. The silt /sediment t raps should be incorporated in the permanent drainage channels to enhance deposit ion rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction ion. Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means. All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas. Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, it should be dug and backfilled in short sect ions wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. All open stockpiles of construction ion materials (for example, aggregates, sand and fill material) of should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to | | | | | | | | |



| EM&A Ref. | Recommended Mitigation Measures | Objectives of the Recommended Measures & Main Concern to Address | Who to implement the measures? | Location of the measure | Implementation Status | | | | | | |
|--------------|--|---|--------------------------------------|----------------------------|-----------------------|------------|------------|---------------|---------------|--|--|
| | | | | | Contract 1 | Contract 2 | Contract 3 | Contract 4 | Contract 5 | | |
| | prevent the washing away of construction ion materials, soil, silt or debris into any drainage system. Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction ion materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Precautions to be taken at any time of year when rainstorms are likely, act ions to be taken when a rainstorm is imminent or forecasted, and act ions to be taken during or after rainstorms are summarized in Appendix A2 of <i>ProPECC PN 1/94</i>. Particular attention should be paid to the control of silty surface runoff during storm events. All vehicles and plant should be cleaned before leaving a construction ion site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at every construction ion site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The sect ion of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient back all toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and rains. Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after | | | | | 2 | 3 | 4 | 5 | | |
| | accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain. Construction ion solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts. | | | | | | | | | | |



| | Recommended Mitigation Measures | Objectives of the Recommended Measures & Main Concern to Address | Who to implement the measures? | Location of the measure | Implementation Status | | | | | |
|------------------|--|---|--------------------------------------|----------------------------|-----------------------|---------------|------------|---------------|---------------|--|
| EM&A Ref. | | | | | Contract | Contract 2 | Contract 3 | Contract 4 | Contract 5 | |
| | All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bun ds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby. Regular environmental audit on the construction site should be carried out in order to prevent any malpractices. Not ices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the rivers. | | | | V | V | | V | V | |
| S6.6.6 and 6.6.7 | Sewage from Workforce Portable chemical toilets should be provided for handling the construction sewage generated by the workforce. Assume that the capacity of the chemical toilets would be 0.4m3 and suck up twice a day under normal practices, around 45 chemical toilets would be required for the whole site at peak hour. And it should be noted that under normal construction periods, less chemical toilets would be needed. In addition, the total number of the chemical toilets would be subject to later detailed design, the capacity of the chemical toilets, and contractor's site practices. Nevertheless, a licensed contractor should be employed to provide appropriate and adequate portable toilets to cater around 37.5 m3/day sewage and be responsible for appropriate disposal and maintenance. Since portable chemical toilets will be provided, no adverse water quality impact from the workforce sewage is anticipated. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction ion phase of the Project . Regular environmental audit on the construction ion site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause | Handling of site sewage | Contractor | All construction sites | V | V | V | V | V | |



| | Recommended Mitigation Measures | Objectives of the Recommended Measures & Main Concern to Address | Who to implement the measures? | Location of the measure | Implementation Status | | | | | |
|-----------------------|--|---|--------------------------------------|----------------------------|-----------------------|------------|---------------|---------------|---------------|--|
| EM&A Ref. | | | | | Contract | Contract 2 | Contract 3 | Contract 4 | Contract 5 | |
| | water quality impact after undertaking all required measure | | | | | | | | | |
| S6.6.8 and 6.6.9 | <u>Accidental Spillage</u> To prevent accidental spillage of chemicals, proper storage and handling facilities should be provided. All the tanks, containers and storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and storm drains. The Contractor is required to register as a chemical waste producer if chemical wastes would be generated from the construction ion activities. Storage of chemical waste arising from the construction ion activities should be well managed with suitable labels an d warnings while disposal of those chemical wastes should be comply with the requirement states in Waste Disposal Ordinance (Cap 354) as well as Waste Disposal (Chemical Waste) (General) Regulations. | Prevention of accidental spillage | Contractor | All construction sites | @ | V | V | V | V | |
| \$6.6.11- \$6.6.14 | Groundwater from Contaminated Area The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater discharge. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The compliancy to the TM-DSS and the existence of prohibited substance should be confirmed after further SI. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with TMDSS or properly recharged into the ground. If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. Petroleum Carbon Ranges (PCRs)). All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be | Minimize contaminated groundwater impacts | Contractor | All construction sites | N/A | N/A | N/A | N/A | N/A | |



| EM&A Ref. | Recommended Mitigation Measures | Objectives of the Recommended Measures & Main Concern to Address | Who to | Location of the | Implementation Status | | | | | |
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| | | | implement the measures? | measure | Contract 1 | Contract 2 | Contract 3 | Contract 4 | Contract 5 | |
| | discharged into the foul sewers. | | | | | | | | | |
| | If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Sect ion 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the select ion of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement . Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as PCRs should be removed as necessary by installing the | | | | | | | | | |
| | petrol interceptor. Waste Management (Contr | action Phase) | | | | | | | | |
| S8.5.2 S8.5.2 (6) | <u>Good Site Practice</u> The following good site practices are recommended throughout the construction ion activities: nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collect ion and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling; provision of sufficient waste disposal points and regular collect ion for disposal; appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; | Minimize waste generation during construction | | All construction sites | V | @ | V | @ | V | |
| | | | 1 | 1 | 1 | 1 | | | 1 | |

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| EM&A Ref. | Recommended Mitigation Measures | Concern to Address | Who to implement the measures? | Location of the measure | Implementation Status | | | | | |
|--------------|--|---|--------------------------------------|--|-----------------------|---------------|------------|----------|---------------|--|
| | | | | | Contract 1 | Contract 2 | Contract 3 | Contract | Contract 5 | |
| | (WMP) as part of the Environmental Management Plan (EMP) in accordance with the <i>ETWB TC(W) No. 19/2005</i> for construction ion phase. The EMP should be submit ted to the Engineer for approval. Mitigation measures proposed in the EIA Report and the EM&A Manual should be adopted. | generation during construction | | sites | | | | | | |
| S8.5.3 | Waste Reduction Measures Waste reduction is best achieved at the planning and design phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to achieve reduction: segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling o materials and their proper disposal; proper storage and site practices to minimize the potential for damage and contamination of construction ion materials; plan and stock construction ion materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste; sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable port ions (i.e. soil, broken concrete, metal etc.); provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling. | Reduce waste generation | Contractor | All construction sites where practicable | V | V | V | V | V | |
| S8.5.5 | <u>Storage of Waste</u> The following recommendation should be implemented to minimize the impacts: waste such as soil should be handled and stored well to ensure secure containment; stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; different locations should be designated to stockpile each material to enhance reuse; | Minimize waste impacts from storage | Contractor Contractor | All construction sites | V | V | V | V | V | |
| S8.5.6 | Collection and Transportation of Waste The following recommendation should be implemented to minimize the impacts: | Minimize waste impacts from storage | Contractor | All construction sites | V | @ | V | @ | @ | |



| EM&A Ref. | Recommended Mitigation Measures | Objectives of the Recommended Measures & Main Concern to Address | Who to implement the measures? | Location of the measure | Implementation Status | | | | | |
|--------------|---|---|--------------------------------------|---|-----------------------|---------------|------------|----------|---------------|--|
| | | | | | Contract 1 | Contract 2 | Contract 3 | Contract | Contract 5 | |
| | remove waste in timely manner; employ the trucks with cover or enclosed containers for waste transportation; obtain relevant waste disposal permits from the appropriate authorities; and disposal of waste should be done at licensed waste disposal facilities. | | | | | | | | | |
| \$8.5.8 | <u>Excavated and C&D Material</u> Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and ensure acceptability at public filling areas or reclamation sites. The following mitigation measures should be implemented in handling the excavated and C&D materials: maintain temporary stockpiles and reuse excavated fill material for backfilling; carry out on-site sorting; make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; implement a recording system for the amount of waste generated, recycled and disposed of for checking; The recommended C&D materials handling should include: On-site sorting of C&D materials Reuse of C&D materials Use of Standard Formwork and Planning of Construction Materials purchasing Provision of wheel wash facilities | Minimize waste impacts from excavated and C&D materials | Contractor | All construction sites | V | V | V | V | V | |
| \$8.5.15 | Contaminated Soil As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to minimize any potential exposure to contaminated soils or groundwater. The details of mitigation measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section. | Remediate contaminated soil | Contractor | All construction sites where applicable | V | V | N/A | N/A | N/A | |
| S8.5.17 | Chemical Waste | Control the chemical | Contractor | All construction | V | V | V | V | V | |

| | | Objectives of the | | | | Imple | ementation S | Status | |
|------------------------|--|--|--|--|---------------|---------------|---------------|---------------|---------------|
| EM&A Ref. | Recommended Mitigation Measures | Recommended Measures & Main Concern to Address | Who to implement the measures? | Location of the measure | Contract 1 | Contract 2 | Contract 3 | Contract 4 | Contract 5 |
| | • If chemical wastes are produced at the construction ion site, the Contractors should register with EPD as chemical waste producer. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste Contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Cent re, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. | waste and ensure proper storage, handling and disposal. | | sites | | | | | |
| S8.5.18 | <u>General Waste</u> General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling. Preferably enclosed and covered areas should be provided for general refuse collect ion and routine cleaning for these areas should also be implemented to keep areas clean. A reputable waste collector should be employed to remove general refuse on a daily basis. | Minimize production of the general refuse and avoid odour, pest and litter impacts | Contractor | All construction sites | @ | V | V | V | @ |
| S8.5.19 | Sewage The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, site condition and activities. Regularly collect ion by licensed collectors should be arranged to minimize potential environmental impacts. | Minimize production of sewage impacts | Contractor | All construction sites | V | V | V | V | V |
| S. 10.7.2 to 10.7.6 | Re-provision of Wooded Area for ecological function at the future Quarry Park. | Compensate for the loss of three woodland patches of a total area of about 1.13ha. | Contractor/ Detailed Design Consultant (qualified botanist / horticulturist / Certified Arborist to supervise the planting). | Northern part of the proposed Quarry Park. | N/A | N/A | N/A | N/A | N/A |



| | | Objectives of the | Who to | | | Imple | ementation | Status | |
|--------------|---|--|--------------------------------------|-------------------------|----------|---------------|---------------|---------------|---------------|
| EM&A Ref. | Recommended Mitigation Measures | Recommended Measures & Main Concern to Address | Who to implement the measures? | Location of the measure | Contract | Contract 2 | Contract 3 | Contract 4 | Contract 5 |
| .10.7.10 | Construction phase in situ mitigation measures to | Minimize impacts on | Contractor | All construction | V | N/A | V | V | N/A |
| .10.7.10 | Construction phase in situ mitigation measures to minimize impacts on hydrological condition and water quality of hillside watercourses include: Temporary sewerage and drainage will be designed and installed to collect wastewater and prevent it from entering nearby watercourses; Proper locations well away from nearby watercourses will be used for temporary storage of materials (i.e. equipment, fill materials, chemicals and fuel) and temporary stockpile of construction debris and spoil, and these will be identified before commencement of works; To prevent muddy water entering nearby watercourses, work sites close to nearby watercourses will be isolated, using such items as sandbags or silt curtains with lead edge at bot tom and properly supported props. Other protective measures will also be taken to ensure that no pollution or siltation occurs to the water gathering grounds of the works site; Stockpiling of construction materials, if necessary, will be properly covered and located away from nearby watercourses; Erection of temporary geotextile silt fences will be carried out around earth-moving works to trap any sediments and prevent them from entering watercourses; Construction debris and spoil will be covered and/or properly disposed as soon as possible to avoid being washed into nearby watercourses; Exposed soil will be covered as quickly as possible following format ion works, followed, where appropriate, by covering with biodegradable geotextile blanket for erosion control purposes; Where appropriate, earth-bunding will be carried out of areas where soils have been disturbed or where vegetation has been cleared, to ensure that surface runoff will not move soils off-site; Construction ion effluent, site run-off and sewage will be probably collected and/or treated. | Minimize impacts on Hydrological condition and water quality of hillside watercourses. | | All construction sites | | N/A | | | N/A |



| | | Objectives of the | Whender | | | Imple | ementation S | Status | |
|---|--|--|--------------------------------------|---|----------|----------|--------------|----------|----------|
| EM&A Ref. | Recommended Mitigation Measures | Recommended Measures & Main | Who to implement the measures? | Location of the measure | Contract | Contract | Contract | Contract | Contract |
| | | Concern to Address | | | 1 | 2 | 3 | 4 | 5 |
| | minimised via the following in descending order: reuse, recycling and treatment; Proper locations for discharge out lets of wastewater treatment facilities well away from sensitive receivers will be identified and used; Silt traps will be installed at points where drainage from the site enters local watercourses; Appropriate sanitary facilities for on-site workers will be provided; The site boundary will be clearly marked and any works beyond the boundary strictly prohibited, and Regular water monitoring and site audit will be carried out at suitable points. If the monitoring and audit results show that pollution occurs, adequate measures including temporary cessation of works | | | | | | | | |
| | will be considered. | | | | | | | | |
| S.10.7.11 | Implement an emergency contingency plan during the construction phase and the plan will include, but not be limited to, the following: Potential emergency situations; Chemicals or hazardous materials used on-site (and their location); Emergency response team; Emergency response procedures; List of emergency telephone hot lines; Locations and types of emergency response equipment, and Training plan and testing for effectiveness. | Minimize impacts on Hydrological condition and water quality of hillside watercourses. | Contractor | All construction sites | N/A | N/A | N/A | N/A | N/A |
| | Landscape and visual (Con | | | | r | ī | r | r | |
| S11.14.23, Table 11.9, CM1 [4] | All existing trees to be retained shall be carefully protected during construction. | Avoid disturbance and protection of the existing trees | Detailed Design Consultant / | The whole project area where applicable | V | V | @ | V | @ |
| S11.14.23, Table 11.9, CM2 [3] | Tree Transplantation - Should removal of trees be unavoidable due to construction impacts, trees will be transplanted or felled. Detailed transplanting proposal will be submit ted to relevant government departments for approval in accordance with LAO GN No. 7/2007, ETWB TCW No. 29/2004 and 10/2013. Final locations of transplanted trees shall be agreed prior to commencement of the work. | Minimize landscape impact and retention of landscape resources | Detailed Design Consultant / | Onsite where possible. Otherwise consider offsite locations | * | N/A | N/A | V | V |

| EM&A | Recommended Mitigation Measures | Objectives of the Recommended | Who to implement the | Location of the | Implementation Status | | | | |
|---|---|--|-------------------------|--|-----------------------|----------|----------|----------|------------|
| Ref. | | Measures & Main Concern to Address | measures? | measure | Contract | Contract | Contract | Contract | Contract 5 |
| S11.14.23, Table 11.9, CM3 [4] | Control of operation night -time glare with well-planned lighting operation system to minimize potential glare impact to adjacent VSRs | Minimize glare impact to adjacent VSRs | Contractor/ CEDD | The whole project area where applicable | V | V | @ | V | N/A |
| S11.14.23, Table 11.9, CM [4] | Erection of decorative screen hoarding. | Minimize visual impact | Contractor/ CEDD | The whole project area where applicable | N/A | N/A | N/A | N/A | N/A |
| S11.14.23, Table 11.9, CM5 [2] | Minimise disturbance and limitation of run-off – temporary structures and construction works should be planned with care to minimize disturbance to adjacent landscape, vegetation, natural stream habitats. | Minimize visual impact | Contractor/ CEDD | The whole project area where applicable | V | V | V | V | N/A |

Legend: V = implemented; x = not implemented; @= partially implemented; * = pending to be implemented; N/A = not applicable



Appendix M

Complaint Log



Appendix M1 Cumulative Complaint and Summons/ prosecution

| Reporting Month | Number of Complaints in Reporting Month | Number of Summons/ Prosecution in Reporting Month |
|-----------------|--|--|
| March 2017 | 1 | 0 |
| April 2017 | 0 | 0 |
| May 2017 | 0 | 0 |
| June 2017 | 2 | 0 |
| July 2017 | 3 | 0 |
| August 2017 | 3 | 0 |
| September 2017 | 4 | 0 |
| October 2017 | 2 | 0 |
| November 2017 | 3 | 0 |
| December 2017 | 3 | 0 |
| | | |
| January 2018 | 1 | 0 |
| February 2018 | 4 | 0 |
| March 2018 | 0 | 0 |
| April 2018 | 2 | 0 |
| May 2018 | 1 | 0 |
| June 2018 | 1 | 0 |
| July 2018 | 0 | 0 |
| August 2018 | 1 | 0 |
| September 2018 | 1 | 0 |
| October 2018 | 1 | 0 |
| November 2018 | 3 | 0 |
| December 2018 | 2 | 0 |
| January 2019 | 2 | 0 |
| February 2019 | 3 | 0 |
| March 2019 | 1 | 0 |
| April 2019 | 0 | 0 |
| May 2019 | 0 | 0 |
| June 2019 | 1 | 0 |
| July 2019 | 1 | 0 |
| August 2019 | 1 | 0 |
| September 2019 | 0 | 0 |
| October 2019 | 1 | 0 |
| November 2019 | 4 | 0 |
| December 2019 | 0 | 0 |
| January 2020 | 0 | 0 |
| February 2020 | 0 | 0 |
| March 2020 | 4 | 0 |
| April 2020 | 1 | 0 |
| May 2020 | 1 | 0 |
| June 2020 | 1 | 0 |
| July 2020 | 0 | 0 |
| August 2020 | 0 | 0 |
| September 2020 | 0 | 0 |
| October 2020 | 0 | 0 |
| November 2020 | 1 | 0 |
| December 2020 | 2 | 0 |
| January 2021 | 1 | 0 |
| February 2021 | 0 | 0 |
| v | 2 | 0 |
| March 2021 | <i>L</i> | U |



| April 2021 | 1 | 0 |
|----------------|----|---|
| May 2021 | 0 | 0 |
| June 2021 | 1 | 0 |
| July 2021 | 1 | 0 |
| August 2021 | 0 | 0 |
| September 2021 | 2 | 0 |
| October 2021 | 0 | 0 |
| November 2021 | 0 | 0 |
| December 2021 | 0 | 0 |
| January 2022 | 0 | 0 |
| February 2022 | 0 | 0 |
| March 2022 | 1 | 0 |
| April 2022 | 1 | 0 |
| May 2022 | 3 | 0 |
| June 2022 | 2 | 0 |
| July 2022 | 0 | 0 |
| August 2022 | 2 | 0 |
| September 2022 | 1 | 0 |
| October 2022 | 1 | 0 |
| November 2022 | 0 | 0 |
| December 2022 | 0 | 0 |
| January 2023 | 0 | 0 |
| February 2023 | 0 | 0 |
| March 2023 | 0 | 0 |
| April 2023 | 0 | 0 |
| May 2023 | 1 | 0 |
| June 2023 | 0 | 0 |
| July 2023 | 1 | 0 |
| August 2023 | 0 | 0 |
| September 2023 | 0 | 0 |
| October 2023 | 0 | 0 |
| Overall Total | 83 | 0 |



Appendix M2

Complaint Log

| Log ref. | Date of Complai nt | | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | l og rot | Date of Complaint |
|-------------|--------------------------|---------------|--|-------------------------------------|------------------------|-----------------|----------|---|---|--|-------------------------------|
| 1 | 23-Mar- 17 | 8-Jun-17 | On Tat Estate | | | SPRO hotline | | A resident living in On Tat House reported that some night works with noise and flashing caused nuisance to nearby resident after 11:00 pm on 23 March 2017. | According the incident report conducted by the CWSTVJV, demobilization of crawler crane was undertaken on 23 March 2017 11pm and it is TD requirement to carry out demobilization of heavy machine at nighttime. It is considered this complaint was a single incident and would not be happened again in future. | no comment by IEC on 11 Oct 2017 | |
| 2 | 28-Jul-1 7 | 28-Jul-1 7 | 38/F of Yin Tat House (賢達樓), On Tat Estate | Reside nt of On Tat Estate | Constructio n noise | SPRO hotline | NA | Mr. Hsu received a complaint from a resident living in the flat on 38/F of Yin Tat House (賢達 樓), On Tat Estate. The resident complained about the noise level of our works during daytime. | Noise monitoring by Contractor was conducted in Yin Tat House, On Tat Estate, at around 2 pm on 28-Jul-2017. Another noise monitoring was carried out by ET (AUES) and representatives of AECOM and JV in the presence of the complainant in her flat at 10 am on 1-Aug-2017 and was witnessed by Mr. Hsu. No exceedance of noise was recorded. The complainant was satisfied about the monitoring results. | | TCS00864/ 16/300/F00 60 |
| 3 | 29-Aug- 17 | 29-Aug- 17 | Shing Tat House 24/F | Reside nt of On Tat Estate | | SPRO hotline | NA | Mr. Hsu Yau Wai (Tel no.9519 5663) reported that he received complaint from a resident (Ms Cheng) living at Shing Tat House 24/F Room 22 about the noise generated from our site this week. The noise heard was mainly rock breaking noise from our | Noise monitoring was carried out by ET | | TCS00864/ 16/300/F00 81 |



| Log ref. | Date of Complai nt | | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------------|------------------------------------|-----------------|----------------------------------|---------|---|--|---|---|-------------------------------|
| | | | | | | | | site. | | | |
| 4 | 21-Jun-1 7 | 29-Aug- 17 | Tat Yan House, Po Tat Estate | | Constructio n noise | EPD | EPD (ref.N08/ RE/0001 9373-17) | day time construciton noise of breakers (8am to | Since these two complaints were forwarded by CEDD to ET on 31 August 2017 which way after the complaint dates. Investigation would be conducted based on the site information by the Contractor of Contract 1 - NE/2016/01 | | TCS00864/ 16/300/F00 93 |
| 5 | 22-Jun-1 7 | 29-Aug- 17 | Tat Yan House, Po Tat Estate | int of | Dust & Constructio n noise | EPD | EPD (ref. N08/RE/ 0001942 8-17) | Day time construction noise of breakers (8AM to 6PM). Requested to delay the operating hour of breakers to 10AM or 11AM | (CWSTVJV) as well as the observation during weekly site inspection carried out ET during June 2017. In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To eliminate the inconvenience caused to the nearby resident CWSTVJV was advised to further enhance the noise mitigation measures as appropriately. | no comment by IEC on 3 Nov 2017 | TCS00864/ 16/300/F00 93 |
| 6 | 15-Jul-1 7 | 29-Aug- 17 | Tat Y1 House, Po Tat Estate | | Constructio n noise | EPD | EPD (ref.N08/ RE/0002 2479-17) | Construction noise | CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident and the working hour 08:00 to 18:00 did not breach any legal requirement. To | no comment by IEC on 3 Nov 2017 | TCS00864/ 16/300/F00 94 |



| Log ref. | Date of Complai nt | Receive | Complaint Location | Compl ainant | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|--|-------------------------------------|-----------------|------------------------|---------|----------------------|--|---|---------------------|-------------------------------|
| | | | | | | | | | eliminate the inconvenience caused to the nearby resident, CWSTVJV was advised to further enhance the noise mitigation measures as appropriately. | | |
| 7 | 28-Jul-1 7 | | Anderson Road | unkno wn | Dust | EPD | (ref.N08/ RE/0002 | Poor control on dust emission at Anderson Road Construction Site | inconvenience caused to the nearby resident and status of the implementation of dust mitigation measures was | | TCS00864/ 16/300/F00 97 |
| 8 | 2-Aug-1 7 | $\mathcal{I}_{\mathbf{U}_{-}} \Lambda_{\mathbf{U}_{-}} \sigma_{-}$ | Chun Tat House, On Tat Estate | | Constructio n noise | EFD | (rel.N08) | Day time construction noise of breakers (8AM to 6PM) | CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in August 2017, there were no breaches of EM&A requirement. However, to eliminate the | by IEC on 15 Nov | TCS00864/ 16/300/F00 98 |



| Log ref. | Date of Complai nt | Receive | | Compl ainant | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------------|--|---|------------------------|-----------------|----------|---|---|--|-------------------------------|
| 9 | 19-Sep-1 7 | 19-Sep-1 7 | Sau Mau Ping Estate Sau Nga House | Reside nt of Sau Mau Ping Estate | Constructio n noise | SPRO hotline | NA | 38/F. He complained about the noise nuisance recently from August to September especially during night time after 12:00 am, even in Saturdays and Sundays. The noise nuisance caused a great disturbance to him. He made a request to conduct | ET has conducted an ad-hoc noise measurement for Leq (30min) on the rooftop of 秀雅樓 and 秀義樓 in the afternoon of 22 September 2017. (Photo 1 & 2) During the course of noise measurement, construction activities such as excavation and breaking were conducted in the Quarry Site. The measurement results taken at both 秀雅 樓 and 秀義樓 were 63dB(A) which below the Limit Level under the EM&A Programme. | no comment by IEC on 18 Oct 2017 | |
| 10 | 21-Sep-1 7 | | Ping Estate Sau Nga House and Sau Yee | Reside nt of Sau Mau Ping Estate | Constructio n noise | EPD | RE/0003 | On 21 September 2017, the same complaint further reported that the noise can be heard at both Sau Yee House and Sau Nga House even in daytime and he strongly requested the Contractor to follow up the case immediately. | ET has conducted an ad-hoc noise measurement for Leq (30min) on the rooftop of 秀雅樓 and 秀義樓 in the afternoon of 22 September 2017. (Photo 1 & 2) During the course of noise measurement, construction activities such as excavation and breaking were conducted in the Quarry Site. The measurement results taken at both 秀雅 樓 and 秀義樓 were 63dB(A) which below the Limit Level under the EM&A Programme. | | TCS00864/ 16/300/F00 88 |



| Log ref. | Date of Complai nt | | | Compl ainant | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------------|-------------------------------------|-------------------------------------|------------------------|---------|---|--|--|--|-------------------------------|
| 11 | 27-Sep-1 7 | 13-Oct-1 7 | House, On Tot Estate | | Constructio n noise | EPD | EPD (ref.N08/ RE/0002 9489-17) | requested to shift the | CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in September | | TCS00864/ 16/300/F01 06 |
| 12 | 3-Oct-17 | 13-Oct-1 7 | Chun Tat House, On Tat Estata | Reside nt of On Tat Estate | Constructio n noise | EPD | EPD (ref. N08/RE/ 0003240 7-17) | Day time construction noise, the complainant requested using less breaker at one time, erecting taller noise barrier to cover the equipment. In addition, the complainant would like to know the construction schedule whether there will be more breaking activities in near future | However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance. | 30 Nov 2017 | TCS00864/ 16/300/F01 06 |
| 13 | 25-Oct-1 7 | 26-Oct-1 7 | Tat Kwai House, Po Tat Estate | Reside nt of Po Tat Estate | Dust | EPD | NA | 投訴安達臣道地盤的泥 | Investigation revealed that CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. Nevertheless, based on the observation during site inspection on 31 October 2017, CWSTVJV was advised to enhance the dust mitigation measures particularly during dry season. | no comment by IEC on 15 Nov 2017 | TCS00864/ 16/300/F01 00 |



| Log ref. | Date of Complai nt | | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | l og rof | Date of Complaint |
|-------------|--------------------------|---------------|-------------------------------------|-----------------|---------------------------------|-----------------|----------|-------------------------------------|---|----------|-------------------------------|
| 14 | 6-Nov-1 7 | 7-Nov-1 7 | Chun Tat House, On Tat Estate | nt of | Noise | EPD | NA | 07:45 開始傳出機器不停 揼石的噪音(幾乎每日在 | implemented noise mitigation measures to reduce the noise impact to the nearby | comment | TCS00864/ 16/300/F01 09 |
| 15 | 13-Nov- 17 | 14-Nov- 17 | House, On | Lam | light pollution and noise | SPRO hotline | NA | 分仍然常開,影響居民正 常睡眠質素,照成一定的 精神厭力。 | To ease the concern by the complaint, CWSTVJV has adjusted the lights to the | | |

| CEDD Service Contract No. EDO 12/2023 |
|--|
| Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works |
| Monthly Environmental Monitoring & Audit Report (October 2023) |



| Log ref. | Date of Complai nt | | | | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------------|---|-------------------------------------|------------------------|---------|----------|--|---|---------------------|-------------------------------|
| 16 | 1-Nov-1 7 | 14-Nov- 17 | House, On | Reside nt of Po Tat Estate | Noise | EPD | NA | 居住於安達邨誠達樓高 層的投訴人投訴由早上 八時半至下午六時聽到 揼鐵噪音。 | barrier at the site boundary near Shing | by IEC on 13 Dec | TCS00864/ 16/300/F01 10 |
| 17 | 25-Aug- 17 | 26-Oct-1 7 | Sau Yee House, Sau Mau Ping Estate | | Constructio n Noise | EPD | DE/0002 | Night time construction noise of hammering (around 12AM) | As advised by CWSTVJV, there was a CNP (GW-RE0763-17) in force for the subject site for operation of generator and electric submersible water pump for the wastewater treatment plant and it is considered that abovementioned PMEs should not generate significant noise. Moreover, it is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out after 19:00 at the subject site. Therefore, the complaint about noise nuisance during night time should not be related to the Project. | | TCS00864/ 16/300/F01 14 |

| CEDD Service Contract No. EDO 12/2023 |
|--|
| Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works |
| Monthly Environmental Monitoring & Audit Report (October 2023) |



| Log ref. | Date of Complai nt | | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------------|-------------------------|-------------------------------------|------------------------|---------|---|--|--|--|-------------------------------|
| 18 | 12-Sep-1 7 | 26-Oct-1 7 | House, On Tat Estate | | Constructio n Noise | EPD | EPD (ref. N08/RE/ 0002948 9-17) | Day time construction noise of breakers (8AM to 5PM) | Noise mitigation measures were implemented to reduce the noise impact to the nearby resident. According to the impact noise monitoring result in September 2017, there were no breaches of EM&A requirement. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance. | no comment by IEC on 10 Jan 2018 | TCS00864/ 16/300/F01 17 |
| 19 | 15-Dec-1 7 | 21-Dec-1 7 | Sau Yee House | | Constructio n Noise | EPD | NA | House complained suspected construction noise from Anderson Construction Site at restricted hour (7pm to | It is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out after 19:00 at the subject site. Therefore, the complaint about noise nuisance during night time should not be related to the Project. | 10 Jan | TCS00864/ 16/300/F01 18 |
| 20 | 20-Dec-1 7 | 21-Dec-1 7 | On Tat Estate | Reside nt of On Tat Estate | Dust | EPD | NA | vehicles generated dust problem and arouse air pollution to On Tat Estate. 投訴安達臣道 信和地盤水車已經壞了 十多天,一直無灑水, 四周非常大塵。 投訴人 住於空達顿,投訴空達西 | CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. It is considered that the complaint was an isolated case due to malfunction of water tanker and CWSTVJV has promptly rectified the deficiency. As advised by CWSTVJV, another water tanker will be deployed in mid-January 2018 to enhance the dust suppression measures throughout the construction site. | no comment by IEC on 25 Jan 2018 | TCS00864/1 6/300/F0121 |



| Log ref. | Date of Complai nt | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|-----------------------|---|------------------------|----------------|----------|---|---|---|---------------------------|
| | | | | | | | 到場視察。 | | | |
| 21 | 28-Dec-1 7 | | Reside nt of Sau Mau Ping Estate | Constructio n Noise | CE's office | NA | 程拓展署管轄的石礦場 不時於非允許時段(即晚 上七時後至翌日早上)發 出疑似打地基的轟轟聲 巨響,最近一次就是今早 (28/12)凌晨五時多再次 聽到石礦場傳來聲響,將 Thomas 先生吵醒,懷疑 有人刻意在無人監管下 施工,更表示曾向環保署 及土木工程署作出投 訴,但環保署表示巡查後 | ET has conducted an ad-hoc noise measurement for Leq (30min) in the complainant's flat in the monitoring of 17 January 2018.It was noted that the complainant's flat is not in direct line of sight to the Anderson Road Quarry Site. The measurement noise result was below the Limit Level under the EM&A Programme. Moroever, it is confirmed by CWSTVJV and checked against the site diary that no construction activities were carried out during restricted hour at the subject site. Therefore, the complaint about noise nuisance during restricted hour should not be related to the Project. | no comment by IEC on 8 Feb 2018 | TCS00864/1 6/300/F0129 |



| Log ref. | Date of Complai nt | | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------------|------------------------|---|------------------------|-----------------|----------|---|---|--|---------------------------|
| | | | | | | | | | CWSTVJV has implemented noise | | |
| 22 | 15-Jan-1 8 | 15-Jan-1 8 | Chun Tat House | Reside nt of Chun Tat House of On Tat Estate, 40/F | Constructio n Noise | SPRO mobile | NA | breaking rock for a long time and strongly requested to know exactly when will be the completion date of the breaking rock part of works opposite to Chun Tat House. She said we should do more on the mitigation measures because our site is very | mitigation measures to reduce the noise impact to the nearby resident. According to the impact noise monitoring result obtained in January 2018, there were no breaches of EM&A requirement. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance. | no comment by IEC on 8 Feb 2018 | TCS00864/1 6/300/F0130 |
| 23 | 1-Feb-18 | 2-Feb-18 | Chi Tai House of On | Reside nt of On Tai Estate (referre d by Mr. Lam Wai) | Constructio n Noise | SPRO hotline | NA | | the Environmental Team has conducted an ad-hoc noise measurement for Leq(30min) at the corridor of 22/F of Chi Tai House on 2 February 2018 facing the construction site. The measurement noise result was 65dB(A) | no comment by IEC on 22 Feb 2018 | TCS00864/1 6/300/F0137 |



| Log ref. | Date of Complai nt | Docoivo | Complaint Location | Compl ainant | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------|--|---|-----------------|----------|---|---|--|---------------------------|
| | | | | | | | | 2018, there were no breaches of EM&A requirement. | | |
| 24 | 1-Feb-18 | | Shing Tat House of On Tat Estate | Reside nt of Shing Tat House (referre d by Mr. Hsu Yau Wai) | SPRO hotline | NA | Mr. Hsu reported that some disturbing noise was heard after 6:00 pm from the site near Shing Tat House of On Tat Estate. | AECOM has liaised with Mr. Hsu on 2 February 2018 for the complaint matter and he reported to AECOM that the noise was generated until 7:00 pm on 1 February 2018. 3. As advised by Contractor of Contract 1, breaking works at USRT area which opposite to Shing Tat House was only carried out from 8:00 to 18:00. However, rock breaking at System A was extended to 19:00 on 1 February 2018. As noise mitigation measures, noise barriers were erected for the works area. Further to the complaint case, CWSTVJV would seek for other quiet work method such as using drilling machine to reduce noise level and speed up the rock breaking process, so that to reduce the noise intensity level and the duration of exposure. | no comment by IEC on 28 Feb 2018 | TCS00864/1 6/300/F0140 |



| Log ref. | Date of Complai nt | | Complaint Location | | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------------|--|--|------------------------|----------------|----------|---|---|--------------------|--------------------------------|
| 25 | 28-Feb-1 8 | 28-Feb-1 8 | Shing Tat House of On Tat Estate | Reside nt of Shing Tat House | Constructio n Noise | EPD | NA | 安達邨誠達樓居民,投 訴人是返夜班,一年半以 來長期受對出地盤日間 揼石仔噪音滋擾,由於單 位與地盤太近,堅持環保 署跟進及回覆如何處理 及減低噪音,他亦要求知 道何日完工. | Breaking works at Underground Stormwater Retention Tank area which opposite to Shing Tat House was carried out from 8:00 to 18:00. The Contractor has implemented noise mitigation measures to reduce the noise impact to the nearby resident. It was advised that the rock breaking works shall tentatively be completed by end of April and it is believe that the noise impact should be minimized. Since the works were carried out within the non-restricted hours and noise monitoring noise were within acceptable level, it is considered that the works under the project did not breach the Noise Control Ordinance. | by IEC on | TCS00864/ 16/300/F01 43 |
| 26 | 11-Apr-1 8 | 12-Apr-1 8 | Him Tat House of On Tat Estate | Reside nt of Him Tat House | Constructio n Noise | SPRO mobile | | Mr. Hui Yau Wai reported that the noise irritation was becoming more severe recently and asked about the completion date of the works close to Him Tat House. The resident suspected that the noise comes from piling works nearby. | noise mitigation measures at works area | by IEC on 7 May | TCS00864/ 16/300/F01 60b |



| Log ref. | Date of Complai nt | Docoivo | | Compl ainant | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | l og rof | Date of Complaint |
|-------------|--------------------------|---------------|--|-----------------|------------------------|---------|----------|---|--|-------------|--------------------------------|
| | | | | | | | | | practicable. The implementation of noise mitigation measures will be kept in view in subsequent site inspection. | | |
| 27 | 25-Apr-1 8 | 8 | Junction of Hiu Kwong Street and Hiu Ming Street | name | Constructio n Noise | EPD | NA | This case is considered a Programme. | s an enquiry and no investigation is req | uired under | the EM&A |
| 28 | 18-May- 18 | 24-May- 18 | Anderson Road Quarry Site | | Constructio n Noise | EPD | NA | 投訴人指安達臣道石礦 場地盤(NE/2016/01)在 入夜 19:00 後仍見到有 長臂喉工程車在運作, 及持續產生大噪音及閃 燈,非常擾民。 | As advised by CWSTVJV and confirmed by RE/AECOM, there were no construction activities carried out after 19:00 and concreting was completed before 19:00. It is concluded that the retracting process is not a general construction work using Powered Mechanical Equipment and complaint was an isolated case due to misunderstanding of the site operation. To prevent similar incidents in future, CWSTVJV has recommended several mitigation measures. | | TCS00864/ 16/300/F01 74b |



| Log ref. | Date of Complai nt | | Complaint Location | | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------------|---|------|-------------------------|-----------------|----------|---|--|--|--------------------------------|
| 29 | 25-Jun-1 8 | 19-Jul-1 8 | Pedestrian Connectivel y E8 under Contract 3 | | Waste Managemen t | CEDD | NA | accumulation of dead leaves and branches found at slope (GLA-TNK 2458) near Hiu Yuk Path on 25 June | CW-CMGC-JV has immediately clear the dead leaves and maintain the site cleanliness. Since the construction work has not yet commenced and the dead leaves and overgrown branches were not related project works, it is considered that the complaint is not valid the project. | no comment by IEC on 24 Sep 2018 | TCS00864/ 16/300/F01 89b |
| 30 | 22-Aug- 18 | 29-Aug- 18 | Hong Wah Court | Hong | Constructio n Noise | 1823 Hotline | NA | 古致電 1625 熟練投計, 指馬游塘區堆填區往將 軍澳方向行車入口因配 合項目需要而進行移除 山坡工程,但其鑽地鑿石 的噪音嚴重影響藍田康 雅苑*居民,要求有關部 | to reduce the inconvenience caused to the nearby resident, Kwan On should properly maintain the noise mitigation measures as appropriate, such as maintain good site practice including intermittent use of machine and plant and Sequencing operation of construction plant equipment. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the | no comment by IEC on 7 Sep 2018 | TCS00864/ 16/300/F01 96a |



| ref. | Date of Complai nt | | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ret | Date of Complaint |
|------|--------------------------|---------------|---------------------------------|-----------------|------------------------|---------|----------|--|---|--|--------------------------------|
| 31 | 28-Aug- 18 | 31-Jul-1 8 | Anderson Road Quarry Site | | Constructio n Noise | EPD | NA | 區,2月20日晚,晚上,7 時後,還在落石屎,相片 拍攝時間大概晚上9時 | valid to the Project. Nevertheless, | 10 Oct | TCS00864/ 16/300/F01 97a |
| 32 | 6-Sep-18 | 7-Sep-18 | Tsui Yeung House | | Constructio n Noise | Verbal | NA | Mr. CHENG Keung-fung complained that the contractor has conducted the noisy works such as rock excavation beyond the normal hours | mitigation measures will implemented continuously during slope construction work and the slope construction will be | no comment by IEC on 22 Oct 2018 | TCS00864/ 16/300/F02 01 |



| Log ref. | - | Receive | Complaint Location | Compl ainant | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | l og rot | Date of Complaint |
|-------------|---------------|---------------|---------------------------------|--|------------------------|-------------------------|----------|--|---|---------------------|--------------------------------|
| 33 | 24-Oct-1 8 | 25-Oct-1 8 | E3 | Kwun Tong DC membe r Ms. So Lai-ch un | Constructio n Noise | Whatsap p Message | NA | KTDC member, Ms. Ann So, complaining the noise of the breaker at E3 | As advised by the Contractor, the acoustic material wrapped on the breaker was worn-out on 24 October 2018 and replacement of new acoustic materials has been installed on the breaker immediately on 25 October 2018. The rock breaking works shall tentatively be completed to the road level in the middle of November 2018 and the mitigation measures will implemented continuously during slope construction work and the slope construction will be carried out within the working hours at Portion 2. It is considered the complaint was an isolate case. | by IEC on 23 Nov | TCS00864/ 16/300/F02 09a |
| 34 | 12-Nov- 18 | 13-NOV- 18 | Anderson Road Quarry Site | Reside nt of ChingT at House(referre dby Mr. Hui Yau Wai) | | SPRO Hotline | NA | Mr. Hui reported that he received complaint from a resident living in Ching Tat House about noise nuisance recently. Mr. Hui asked if project team can arrange some noise monitoring to check the noise level at the concerned flat or the same level at Ching Tat House. | The SPRO contacted Mr. Hiu and explained to him about the purpose and benefits of the tunnel to the residents nearby and the expected date of completion of the tunnel will be earlier than 2020. Moreover, the noise mitigation measures had implemented to reduce the noise level effectively and the work progress will be closely updated to nearby stakeholders to enhance communication. Mr. Hiu satisfied with the reply from SPRO and he agreed that the proposed noise monitoring in Ching Tat House was not needed. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no breaches of legislative requirement. | by IEC on | TCS00864/ 16/300/F02 22a |



| Log ref. | Date of Complai nt | Receive | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|---------|-----------------------|-----------------|--------------------|---------|----------|--|---|--|--------------------------------|
| 35 | 14-Nov- 18 | 14-Nov- | | | Light and Noise | EPD | NA | 凌晨1時,地盤仍有大光 燈正射民居和機器移動 聲音,影響附近居民睡眠 及違反環保條例。 | | no comment by IEC on 3 Jan 2019 | TCS00864/ 16/300/F02 23a |
| 36 | 13-Nov- 18 | 14-Nov- | Road | | Noise and dust | 1823 | NA | Complainant requested to postpone the starting time of construction work at project site and also to solve the problem of construction noise and dust. | construction site is 8am to 6pm and there were no violation of the relevant regulations. The senior public relation | no comment by IEC on 18 Feb 2019 | TCS00864/ 16/300/F02 24 |



| Log ref. | Date of Complai nt | | Complaint Location | Compl ainant | - | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
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| 37 | 9-Dec-18 | 12-Dec-1 | Anderson Road Quarry Site | | Constructio n noise | 1823 | 2-49279 07305 | the complainant complained that construction noise was generated from project site on Sunday and was affecting the resident at Hau Tat House, On Tat Estate. The complainant requested follow up | In our investigation based on the information provided by CWSTVJV, there was no site activities undertaken at site access road as concerned by the complainant. The construction work carried out on Sunday was fully compliance with the CNP requirement. In response to the complaint, CWSTVJV was reminded to closely monitor the plant use and sequence of night work and do not to violate CNP conditions. | 10 Jan 2019 | TCS00864/ 16/300/F02 30a |
| 38 | 19-Dec-1 8 | 27-Dec-1 | Anderson Road Quarry Site | | Constructio n noise | 1823 | 2-49480 74127 | | mitigation measures provided by CWSTVJV was inspected. It was observed that noise mitigation measures including temporary noise barrier, acoustic mat and wrapped by acoustic materials are implemented on site. However, CWSTVJV was advised to extend the coverage of noise barrier as far as practicable and fully enclose the concerned works area which has been completed on 15 January 2019. Since the works were carried out within the non-restricted hours, it is considered that | no comment by IEC on 31 Jan 2019 | TCS00864/ 16/300/F02 37a |

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| 39 | 24-Jan-1 9 | 0 | Anderson Road Quarry Site | Undisc losed | | Referred from DSD | NA | DSD has referred a case to CEDD on 24 January 2019 regarding suspended illegal discharge of cementitious slurry from construction site of Development of ARQ Site to nearby Public Stormwater Drainage System. | In our investigation, the concerned catchpit and U-channel mainly received the runoff from Po Lam Road as well as the discharge from the Anderson Road Quarry Site. It is suspected that the mud and silt found on the downstream has been accumulated over time particularly by rainstorm as well as routine discharge from construction site. As remedial action, CWSTVJV immediately clean the affected area where accessible. Nevertheless, in order to protection the watercourse at downstream of the construction site, CWSTVJV has some enhancement measures. | no comment by IEC on 29 Mar 2019 | TCS00864/ 16/300/F02 48a |
| 40 | 30-Jan-1 9 | 0 | Anderson Road Quarry Site | Undisc losed | noise | SPRO hotline | NA | A public complaint was received by SPRO hotline on 30 January 2019 regarding the construction noise near Ma Yau Tong Village and requested to add noise barrier as soon as possible. | In our investigation, CWSTVJV had provided the noise mitigation measures to minimize the noise impact to the resident nearby. The impact monitoring result obtained at Ma Yau Tong Village revealed that the construction noise were within acceptable level. Since the works were conducted within approved normal hours with implementation of noise and dust mitigation measures, there were no breaches of legislative requirement. | no comment by IEC on 15 Mar 2019 | TCS00864/ 16/300/F02 49a |
| 41 | 15-Feb-1 9 | 25-Feb-1 9 | Anderson Road Quarry Site | Undisc losed | noise | 1823 | 2-49480 74127 | 1823 has referred a case to CEDD on 15 February 2019, which the complainant complained | In response to the complainant, | no comment by IEC on 29 Mar 2019 | TCS00864/ 16/300/F02 51a |



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| | | | | | | | | CEDD site near 法源寺 (Ma Yau Tong Village). The complainant requested for the details | | | |
| 42 | 21-Feb-1 9 | 25-Feb-1 | Anderson Road Quarry Site | Undisc losed | noise | EPD | NA | Anderson Road Quarry construction site has gotten worse. In addition, sometimes even after midnight there are noise coming from the site. With the echo produces from the environment, this is not helping at all. Really a big disturbance to the residence in the area. The complainant suspecting the sound | In our investigation, CWSTVJV has implemented noise mitigation measures to reduce the noise impact to the nearby resident. However, to eliminate the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate, such as maintain good site practices such as intermittent use of machine and plant and Sequencing operation of construction plant equipment. Since the works were carried out within the non-restricted hours, it is considered that the works under the project did not breach the Noise Control Ordinance arway by ET | no comment by IEC on 28 Mar 2019 | TCS00864/ 16/300/F02 50 |



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| 43 | 21-Feb-1 9 | 26-Feb-1 | Dood | Undisc losed | | received by DEVB and referred to CEDD | NA | A public complaint was received by DEVB and referred to CEDD on 25 February 2019 regarding on the noise generated from the construction works of the Anderson Road Quarry Site affecting a local resident residing at the Anderson Road Squatter Area | Additional acoustic mat has been erected in front of the Squatter Area to minimize the noise impact. Noise mitigation measures such as acoustic barriers erected along the works area and breaker head wrapped with acoustic material were implemented continually. Alterative quiet work method was adopted such as drilling the hard rock before the breaking work to reduce the breaking duration. In our investigation, CWSTVJV had enhanced the noise mitigation measures to ease the complainant's concerns. CWSTVJV will continually implement the noise mitigation measures to reduce to noise impact to the public. | by IEC on | TCS00864/ 16/300/F02 52a |
| 44 | 1-Mar-1 9 | 26-Feb-1 9 | | Undisc losed | noise | CEDD | NA | A complaint is forwarded by CEDD which was received by KTDC member Mr CHENG Keung Fung from the residents of Tsui Yeung House(翠楊樓) about the noise nuisance generated and the working time up to 7:00 pm from the rock excavation of E3 lift tower. Follow up action is requested. | project's details and concerned site was being constructed for the future pedestrian connection facilities. The related stone drilling process is expected to be completed in mid-April to end of April 2019. Mr. Cheng was satisfied with the rapid response from CEDD and the engineering team. In our investigation Kwan On has implemented | by IEC on | TCS00864/ 16/300/F02 64 |



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| | | | | | | | | | breach the Noise Control Ordinance. | | |
| 45 | 16-Jun-1 9 | 18-Jun-1 9 | Road | Undisc losed | noise | EPD | NA | EPD referred a case to CEDD on 17 June 2019 regarding the construction noise heard at On Tat Estate on Sunday. | day. Since the work did not involve the use of Powered Mechanical Equipment | no comment by IEC on 21 August 2019 | TCS00864/ 16/300/F03 01a |
| 46 | 12-Jul-1 9 | 15-Jul-1 | Anderson Road Quarry Site | Undisc losed | dust | EPD | NA | On 12 July 2019, a complaint was received by EPD regarding the dust impact to the residents at Po Tat Estate and On Tat Estate due to the dust emission at Anderson Road Quarry site. | implementation of dust mitigation measures was considered effective based on the site observation. Moreover, | no comment by IEC on 12 August 2019 | TCS00864/ 16/300/F02 92b |



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| | | | | | | | | | addition to the dust mitigation measures implemented provided by the Contractor. Nevertheless, the ET will closely monitor the environmental performance and dust mitigation measures in subsequent site inspection. The IR is under reviewed by IEC. | | |
| 47 | 6-Aug-1 9 | 14-Aug- 19 | Work Area Portion 2 E3 (Slope of Hiu Ming Street opposite of Tsui Yeung House) | (北)邨 物業服 務辦事 | Noise | 1823 | NA | the noise generated from construction work at the lift tower site (Slope E3) at Hui Ming Street from the residents of Tsui Yeung House. The complainant expressed that the construction works has been undertaken for 2 years and generated | In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. It is concluded that the complaint was valid to the contract. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. | no comment by IEC on 16 Sep 2019 | TCS00864/ 16/300/F03 10a |



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| 48 | 15-Oct-1 9 | 18-Oct-1 9 | Work Area Portion 6 (Tseung Kwan O Tunnel Bus-Bus Interchange Pedestrian Connectivit y Facilities E12) | Mr. Ng | Noise | 1823 | | Tseung Kwan O Tunnel Bus to Bus Interchange Pedestrian Connectivity Facilities E12. The complainant expressed that the construction noise was generated from | in our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as | no comment by IEC on 13 Nov 2019 | TCS00864/ 16/300/F03 26a |
| 49 | 5-Nov-1 9 | 11-Nov- 19 | Work Area Portion 2&3 (lift tower construction work at Hiu Kwong Street) | NA | Noise | EPD | NA | A public complaint was received by EPD relating to the noise generated from breaking work of lift tower construction work at Hiu Kwong Street (Portion 2&3). | mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that | no comment by IEC on 27 Dec 2019 | TCS00864/ 16/300/F03 32a |

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| 50 | 7-Nov-1 9 | | Work Area Portion 6 | Mr. Cheng | Noise | EPD | NA | 寶達邨居民鄭先生,表 示將軍澳隧道出口工程, 日 間 噪 音 嚴 重, 8:30-17:00,幾部幾同時 開動,而且無防音欄,之 前是有,現要求環保署 向對方反映改善 | In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact to the nearby resident. Nevertheless, since the construction site is close to the residential area, adequate noise mitigation measures shall be provided to reduce to noise nuisance to the public. As the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme. | by IEC on | TCS00864/ 16/300/F03 33a |
| 51 | 10-Nov- 19 | 12-Nov- 19 | Underpass | Undisc losed | Noise | EPD | NA | 据隧道工程,每天噪音不斷,由 8 至 6,由於欠缺 遮擋,聲音直向 4 至 22 號村屋,將來通車,相信 噪音不只 8-6,現懇請環 保署為本村居民正式評 估,並向政府提出村民困 擾,考慮盡快設置隔音 屏。 | implemented the noise mitigation measures to reduce to noise impact to the public. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of | comment by IEC on | TCS00864/ 16/300/F03 37 |

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| | | | | | | | | 隧道的工程地盤每日 8am-6pm 發出噪音,欠 缺遮擋,聲音影響馬游塘 村 4-22 號村屋。希望政 府部門 1.調查地盤有否違規 2.實施減音措施以減低 對附近居民的滋擾 | | | |
| 52 | 11-Nov- 19 | 20-Nov- 19 | Constructio n site near on Tai Estate Ancillary Facilities Building on On Sau Road | nt of Yung Tai House | Noise | 1823 | ref. 2-59763 03183 | 元成,並投訴具經常發出 噪音滋擾,要求部門跟 進。 On 22 November 2019, the project hotline received a call from the same complainant reported on the noise nuisance near On Sau Road and On Yan Street. He suggested to speed up | In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. However, in response to the complaint, the Contractor was advised to enhance the performance of the temporary noise barriers such as increase the coverage of the noise barrier. Since the works were conducted within normal working hours with implementation of noise mitigation measures, there were no breaches of legislative requirement. | no comment | TCS00864/ 16/300/F03 38a |

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| | | | | | | | | intermittence is suggested in order to speed up the works and to avoid waste of manpower. | | | |
| 53 | 5-Mar-2 0 | 6-Mar-2 0 | Road | Reside nt of On Tat Estate | Noise | EPD | NA | 低音,希望能加裝隔音設 備,工程不知何時將嘈音 減至最低。1. A public complaint was received by EPD on 5 March 2020 regarding the construction noise generated from the tunnel work of the subject site | In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. In response to the complaint, CWSTVJV had immediately installed a layer of acoustic mat at boundary of System A. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement. | no comment by IEC on 1 Apr | TCS00864/ 16/300/F03 57a |

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| 54 | 4-Mar-2 0 | | Near Hiu Ming Street Playground (E8) | Undisc | Noise | 1823 | ref. 3-62832 37171 | PM 持續不斷發出強烈 的嘈音, 投訴人表示地 盤是在曉明街藍球場旁 邊的位置(投訴人未能告 知確實街號),因此要求 部門盡快回覆及告知有 關情況。 A public complaint was received by 1823 on 4 March 2020 regarding the construction noise. The complainant mentioned that there were | located near Hiu Ming Street Playground and not caused by the works under the Project. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of | no comment by IEC on 15 Apr 2020 | TCS00864/ 16/300/F03 59a |
| 55 | 23-Mar- 20 | 23-Mar- 20 | Near Lin Tak Road (E11) | Undisc | | Project hotline | NA | 藍田居民梁先生反映在 將軍澳道往連德道天橋 的大彎位,其中有一個車 輛出入口每日早上八時 左右不時有泥水從地盤 流出路面,估計泥水是清 洗工程車輛所致,令梁先 | In our investigation, the wheel washing facilities at site exit of E11 is one of the dust quality mitigation measures conducted by CW-CMGCJV and corresponding measure was implemented to prevent overflow of wastewater out of the site. In our recent site inspection, no outflow of muddy water from the site was observed and the condition of | | TCS00864/ 16/300/F03 60a |

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| | | | | | | | | 施改姜問題? A public | | | |
| 56 | 17-Mar- 20 | IU M/Ior | Anderson Road Quarry Site | Reside nt of Yan Tat House | Noise | Project hotline | NA | 許有為區議員接獲安達 邨仁達樓 2613 室居民反 映,安達臣道石礦場發展 用地工程噪音持續兩 年,要求工程團隊下周派 員到有關單位視察,並採 取可行的噪音緩解措 施。許有為區議員要求陪 同視察。 A public complaint was received by hotline on 17 March 2020 regarding the construction noise generated from the Anderson Road Quarry Site. The complainant mentioned that the | In our investigation, CW-CMGCJV has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. However, to eliminate the inconvenience caused to the nearby residents, CW-CMGCJV was advised to further adopt good practices on mitigating construction noise to reduce the noise impact to the nearby residents. 5. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, CW-CMGCJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme. | no comment by IEC on 11 May 2020 | TCS00864/ 16/300/F03 61a |



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| | | | | | | | | generated from the Anderson Road Quarry Site had been continued for two years. | | | |
| 57 | 1-Apr-20 | 20-Apr-2 0 | Work Area Portion 2 | Undisc losed | Noise | 1823 | NA | 程噪音/盘援了 网中学, 另外投訴人得知完工時 間要到 2021 年, 投訴人 不明白為何工程頭尾要 3 年多時間. 要求地政總 署直接以電郵回覆工程 長的原因及有沒有措施 解決地盤發出的噪音。 A public complaint was received by 1823 on 1 April 2020 and subsequently transmitted to Environmental Team (ET) on 20 April 2020, | to the contract. However, as the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme. | | TCS00864/ 16/300/F03 66a |



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| | | | | | | | | and implementation of noise mitigation measures to alleviate the noise impact arising from the construction work. 陳先生住於翠楊樓 17 樓,投訴對面鑽石工程產 生噪音對母親健康構成 影響,現查詢完工日期、 | | | |
| 58 | 11-May- 20 | | Work Area Portion 2 | Undisc losed | Noise | Project hotline | NA | 嗓音監控標準及措施。 A public complaint was received by Project Hotline on 11 May 2020 regarding the noise generated from rock breaking work from a construction site opposite to Tsui Yeung House, which affecting his mother's health. The complainant enquired about the completion date | | no comment by IEC on 28 May 2020 | TCS00864/ 16/300/F03 70a |

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| 59 | 18-Jun-2 0 | | Anderson Road Quarry Site, System B | Undisc losed | Noise | EPD | NA | construction site near Hau Tat House. The complainant understood that the Contractor could carry out construction works, other than percussive piling, before 7pm under the CNP and hoped that the Contractor could arrange the noisy construction works to be carried out before 6pm. | In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the | no comment by IEC on 17 July 2020 | TCS00864/ 16/300/F03 91a |
| 59# | 23-Jul-2 0 | 24-Jul-2 0 | Duarry Sife | Undisc losed | Noise | EPD | NA | A public complaint was received by EPD on 23 July 2020 regarding the construction noise generated from the use of PME at Anderson Road Quarry Site near On Tat | In our investigation, CWSTVJV had restricted the use of PME before 7am. There was no construction work and use of PME during the restricted hours. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of | no comment by IEC on 25 August 2020 | TCS00864/ 16/300/F04 01 |



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| | | | | | | | | (restricted hours). He/ she requested relevant department to follow up. | legislative requirement. Nevertheless, as the construction site is close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme | | |
| 60 | 14-Nov- 20 | | Near Hiu Ming Street Playground (E8) | Undisc losed | Noise | 1823 | NA | | In our investigation, there was no noise impact was observed and anticipated in Hiu Ming Street based on the site activities and our inspection record. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement | no comment by IEC on 4 January 2021 | TCS00864/ 16/300/F04 24 |
| 61 | 4-Dec-20 | 7-Dec-20 | Opposite to On Tai Estate – lower portion of Road L4 | | Dust | EPD | NA | A public complaint was received by EPD on 4 December 2020 regarding the dust impact. The complainant mentioned that the construction site | In our investigation, CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby resident. In view of the potential traffic dust impact and implementation of dust mitigation measures, it is considered that the complaint was not valid to the Project | no comment by IEC on 4 January 2021 | TCS00864/ 16/300/F04 34 |
| 62 | 3-Dec-20 | | Ma Yau Tong | Undisc losed | Noise and dust | 1823 & EPD | 3-65741 41017 | A public complaint was received by 1823 and | In our investigation, CWSTVJV had provided the dust and noise mitigation | no comment | TCS00864/ 16/300/F04 |

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| | | | Village (East Portal) | | | | | construction dust and noise impact arising from the project. There were acoustic mats erected on the slope of East Portal, however, the complainant enquired about effectiveness of the noise | measures to minimize the dust and noise impact to the resident nearby. To response the concern from the complainant, as enhancement noise measure, the Contractor extended the noise barrier to encircle noisy activity. Since the works were conducted within approved normal hours with implementation of noise and dust mitigation measures, there were no breaches of legislative requirement | by IEC on 4 January 2021 | 35 |
| 63 | 7-Jan-21 | 7-Jan-21 | System B | Reside nt of Yan Tat House | Noise | Project hotline | NA | A public complaint was referred by district Councillor Mr. HSU Yau-wai and received by project hotline on 7 January 2021 regarding the construction noise. The complainant mentioned that the construction site next to SKH St. John's Tsang Shiu Tim Primary School generated noise problem and she requested | In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public.6. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, the Contractor was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme. | | TCS00864/ 16/300/F04 41 |



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|-------------|--------------------------|----------|--|-----------------|---------------------|---------------|----------|--|--|---|--------------------------------|
| 64 | 18-Mar- 21 | | | Undisc losed | Noise | 1823 & EPD | NA | Estate and On Tai Estate. The complainant expressed that construction works of the site started from 6:45am | In our investigation, CWSTVJV had restricted the use of PME before 7am. There was no construction work and use of PME during the restricted hours and there should not be any non-compliance of Noise Control Ordinance. Nevertheless, as the construction site is close to the residential area, CWSTVJV was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme | no comment by IEC on 1 April 2021 | TCS00864/ 16/300/F04 54 |
| 65 | 1-Apr-21 | 1-Apr-21 | Constructio n site near SKH St. John's Tsang Shiu Tim Primary School (System B under Contract 3) | Undisc losed | Noise | EPD | NA | by EPD and referred to CEDD on 1 April 2021 regarding the construction noise. The complainant mentioned that piling work was conducted at construction site near SKH St. John's Tsang Shiu Tim Primary School in recent week which generated noise problem. Moreover, there were no | In our investigation, the Contractor has implemented noise mitigation measures to reduce the noise impact and nuisance to the public. Since the works were carried out within the non-restricted hours, it is considered that the works under the contract did not breach the Noise Control Ordinance. Moreover, the Contractor has adopted noise mitigation measures to minimise noise impact to the public. Since the construction site is close to the residential area, the Contractor was reminded to implement the mitigation | no comment by IEC on 19 July 2021 | TCS00864/ 16/300/F04 58a |



| Log ref. | Date of Complai nt | Receive | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
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| | | | | | | | | provided in the construction site | measures as far as practicable as recommended in the EM&A Programme | | |
| 66 | 28-Mar- 21 | 30-Mar- 21 | Quarry Site (between On Tat Estate and | Reside nt of Tai Fung House of On Tai Estate | Noise | EPD | | construction noise generated from construction works at Anderson Road Quarry Site until 9pm on Monday | In our investigation, CWSTVJV had followed that CNP for work during restricted hour and there should not be any non-compliance of Noise Control Ordinance. Nevertheless, some site areas had been handed over to other contract and construction noise generated from others is not controlled by the project. As a reminder, CWSTVJV should implement the mitigation measures as far as practicable as recommended in the EM&A Programme. | no comment by IEC on 22 April 2021 | TCS00864/ 16/300/F04 59 |
| 67 | 11-Jun-2 1 | $11_1n_2/$ | Anderson Road Quarry Site | Reside nt of Chi Tat House, On Tai Estate | Noise | EPD | EPD Ref.: 13208-2 1 | A public complaint was received by EPD on 11 June 2021 and complained about noise nuisance from multiple construction sites on | 6. In our investigation, CWSTVJV had implemented the noise mitigation measures to reduce to noise impact to the public. In response to the complaint, CWSTVJV had immediately installed a layer of acoustic barrier at boundary of concern works area. Since the works were conducted within approved normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement. | no comment by IEC on 19 July 2021 | TCS00864/ 16/300/F04 78a |

| CEDD Service Contract No. EDO 12/2023 |
|--|
| Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works |
| Monthly Environmental Monitoring & Audit Report (October 2023) |



| Log ref. | Date of Complai nt | | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
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| | | | | | | | | Saturday without adequate noise mitigation measures. On 17 June 2021, the complainant added that the noise was generated from rock breaking works in front of Chi Tai House (not from the housing sites near the Tai Sheung Tok slope) and no mitigation measure was implemented for the rock breaking works. | | | |
| 68 | 20&21/J une/21 | 23-Jul-2 | Anderson Road Quarry Site | DSD | Water Quality | EPD | EPD Ref.: 13208-2 1 | EPD received complaints from DSD on 20 and 21 July 2021 concerning about discharge of muddy water as found on Po Lam Road and at the drainage facility near Tin Hau temple. | In our investigation, CWSTVJV had implemented the water quality mitigation measures to minimise the impact arising from the construction site. In view of the site condition and inclement weather condition on the complaint days, it is considered that the complaints raised by DSD were unlikely due to the C1 Project. Nevertheless, CWSTVJV was advised to closely monitor the discharge quality to avoid non-compliance of water quality happened in the construction site. Moreover, to cope with the adverse weather condition in wet season, CWSTVJV should regularly review the drainage plan as needed. | no comment by IEC on 6 August 2021 | TCS00864/ 16/300/F04 85b |
| 69 | 14&16/S ep/21 | 15-Sep- | Anderson Road Quarry Site | DSD | Water Quality | EPD | NA | EPD received complaints from DSD on 14 Sep | In our investigation, CWSTVJV had implemented the water quality mitigation measures to minimise the impact arising | | |

| CEDD Service Contract No. EDO 12/2023 |
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| Log ref. | Date of Complai nt | Receive | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|----------|---------------------------------|-----------------|-------|--------------|----------|--|--|--|----------------------|
| | | | | | | | | concerning about discharge of muddy water as found at the catchpit SCH4003250 near Po Lam Road and catchpit SSH4001400 near Po Tat Tin Hau Temple. | from the construction site. However, there were incidents of seepage of silty water at Q2 and Q3 and rectified actions were undertaken immediately. Having investigated, the incidents were considered very short term and would not generate large amount of muddy water. In view of the inclement weather condition and there were other major sources, it is considered that the complaints raised by DSD were not fully contributed byC1 Project. Nevertheless, CWSTVJV was advised to closely monitor the discharge quality to avoid non-compliance of water quality happened in the construction site. Moreover, to cope with the adverse weather condition in wet season, CWSTVJV should regularly review the drainage plan as needed. | 6 October 2021 | |
| 70 | 23/Sep/2 1 | 29-Sep-2 | Anderson Road Quarry Site | CEDD & EPD | Notco | CEDD &EPD | NA | A public complaint was referred by 1823 to both CEDD and EPD on 23 September 2021. The complainant stated that the construction works at Anderson Road Quarry Site started before 7am, which generated construction noise and | Our investigation revealed that there was no construction works under the Project undertaken during the concerned period by the complainant, and there were other concurrent contracts on Anderson Road Quarry Site and the contribution noise may be related to others. Therefore, it is considered that the noise complaint was unlikely to be related to the works under the Project. Nevertheless, | No comment by IEC on 15 November 2021 | |

| CEDD Service Contract No. EDO 12/2023 |
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| Log ref. | Date of Complai nt | | Complaint Location | | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|-------------|--------------------------|-----------------|---------------------------------|-----|---------------------|---------|----------|---|--|--|-------------------------------|
| | | | | | | | | resident of On Tat Estate. EPD have contacted the complainant and clarify that the concerned about construction dust and daytime construction noise after 7am. | CWSTVJV was reminded to properly maintain the noise mitigation measures as far as practicable considering the construction site is relatively close to residential area. | | |
| 71 | 30/Mar/2 2 | 1 / / nr / / | Anderson Road Quarry Site | DSD | Water Quality | DSD | NA | EPD received complaint from DSD on 28 March 2022 concerning about siltation and discharge of muddy water observed at the public drainage system at catchpit SSH4001400 near Tin Hau Temple and the site discharge points at Po Lam Road on 28 March 2022 | In our investigation, the Contractor had implemented the water quality mitigation measures to minimise the impact arising from the construction site. Based on the investigation findings, it is considered that the complaint was likely caused by the interfacing contractors under rainy days and not due to the works under the Project. | No comment by IEC on 19 April 2022 | TCS00864/ 16/300/F05 40 |
| 72 | 14/Apr/2 2 | $1 \wedge nr/1$ | Anderson Road Quarry Site | DSD | Water Quality | DSD | NA | DSD carried out site inspection at site | In our investigation, the Contractor had implemented the water quality mitigation measures to minimise the impact arising from the construction site. Based on the investigation findings, it is considered that the complaint was likely caused by the interfacing contractors and not due to the works under the Project. | No comment by IEC on 16 May 2022 | TCS00864/ 16/300/F05 41 |
| 73 | 11/May/ | 25/May/ | Anderson | DSD | Water | DSD | NA | EPD received complaint | Based on the above findings and | No | TCS00864/ |

| CEDD Service Contract No. EDO 12/2023 |
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| Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works |
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| Log ref. | Date of Complai nt | Receive | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | l na rat | Date of Complaint |
|-------------|--------------------------|---------------------|---------------------------------|-----------------|------------------|---------|----------|---|--|---|-------------------------------|
| | 2022 | 2022 | Road Quarry Site | | Quality | | | muddy water observed entering Tsui Ping River, with similar situation observed at Tin Hau Temple and Po Lam Road. | successive heavy rainstorm on 11 to 13 May 2022, it is considered the muddy water found in the concerned catchpit SSH4001400 near Tin Hau Temple and Po Lam Road on 11 to 13 May 2022 were likely caused by impact of rainstorm and partially contributed by the interfacing contractors at Sites R2-9 & R2-10. | comment by IEC on 13 June 2022 | 16/300/F55 9 |
| 74 | 17/May/ 2022 | 30/May/ | Anderson Road Quarry Site | DSD | Water Quality | DSD | NA | EPD received complaint from DSD on 14 and 16 May 2022 concerning about muddy water observed entering Tsui Ping River. | Heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. Besides, there were several construction sites at upstream of Tsui Ping River. It is considered that complaint mainly related to the interfacing contractor(s) and unlikely to have been caused by the project. | 2 | TCS00864/ 16/300/F56 2a |
| 75 | 27/May/ 2022 | 22 | Anderson Road Quarry Site | DSD | Water Quality | DSD | NA | from DSD on 27 May 2022 concerning about muddy water observed entering Tsui Ping River, with similar situation observed at Tin Hau Temple and Po Lam Road. | Heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. Besides, there were several construction sites at upstream of Tsui Ping River. It is considered that complaint mainly related to the interfacing contractor(s) and unlikely to have been caused by the project. | No comment by IEC on 13 June 2022 | TCS00864/ 16/300/F56 3 |
| 76 | 6, 7, 8/J un/2022 | $\frac{1}{10}/2022$ | Anderson Road Quarry Site | DSD | Water Quality | DSD | NA | informed that dirty water | As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, | EPD on 21 | TCS00864/ 16/300/F56 5 |



| Log ref. | Complai | Receive | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ret | Date of Complaint |
|-------------|-----------------|----------------|---------------------------------|-----------------|------------------|---------|----------|---|---|---|------------------------------|
| | | | | | | | | Ping River this morning at the upstream near junction of Kai Lim Road and Tsui Ping Road. The situation has persisted | | | |
| 77 | 14/Jun/2 022 | 022 | Anderson Road Quarry Site | DSD | Water Quality | DSD | NA | Tin Hau Temple and Po | drainage system. Besides, there were | Sent to EPD on 29 June 2022 | TCS00864/ 16/300/F56 6 |
| 78 | 8/Aug/20 22 | 8/Aug/20 22 | Anderson Road Quarry Site | DSD | Water Quality | DSD | NA | muddy water was observed entering Tsui Ping River in the morning of 8 August 2022, with similar situation at Tin | As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. No muddy water discharge was evident in the morning or afternoon of 8 August 2022. | comment by IEC on 19 September | TCS00864/ 16/300/F58 0 |



| LOG | Date of Complai nt | | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
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| | | | | | | | | | It is therefore considered that the muddy water discharge observed by DSD in the morning of 8 August 2022 was unlikely to have been caused by the ARQ contracts of C1 or C4. | | |
| 79 | 12/Aug/2 022 | | Anderson Road Quarry Site | DSD | Water Quality | DSD | NA | DSD advised EPD that muddy water was observed entering Tsui Ping River in the morning of 12 August 2022, with similar situation at Tin Hau Temple and Po Lam Road (山渠). | As a matter of fact, heavy rain led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. No muddy water discharge was evident in the morning of 12 August 2022. It is therefore considered that the muddy water discharge observed by DSD in the morning of 12 August 2022 was unlikely to have been caused by the ARQ contracts of C1 or C4. | No comment by IEC on 19 September 2022 | TCS00864/ 16/300/F58 1 |
| 80 | 29&30/ Sep/2022 | 29/Sep/ 2022 & 3 Oct 2022 | Anderson Road Quarry (ARQ) Site | DSD | Water Quality | DSD | NA | DSD's complaint was made to EPD who requested CEDD in the same respective mornings to handle and investigate in accordance with the procedure in EM&A Manual. | muddy water discharge from ARQ Site was evident in the morning of 29 and 30 | Sent to EPD on 18 October 2022 | TCS00864/ 16/300/F59 3 |



| Log ref. | Date of Complai nt | Receive | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | l na rat | Date of Complaint |
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| | | | | | | | | | During wet season, the Contractor was strongly reminded to implement adequate water quality mitigation measures to minimise the impact arising from the construction site. The Contractor should closely monitor the discharge quality from the Site to avoid non-compliance. The ET will pay special attention on water quality mitigation measures implementation on site through regular site inspection, and give advice on remedial action when necessary. Incidentally, it is noted that Site R2-9 has kept discharging muddy water to downstream manhole D310. Record photos of the manhole dated 6, 7 and 8 October 2022 are enclosed for reference. | | |
| 81 | 18/Oct/ 2022 | 20/Oct/ 2022 | Anderson Road Quarry (ARQ) Site | DSD | Dust Quality | Referred by 1823 to EPD | NA | referred by 1823 to EPD on 18 October 2022, regarding the dust problem generated from the construction site in Anderson Road near On Tai Estate due to typhoon signal no. 3. EPD contacted the complainant who was a resident of Shing Tai House, On Tai | In our investigation, both the Contractors had implemented dust mitigation measures to reduce to potential impact to the public. However, in particular during dry season, Contract 4 was reminded to enhance the dust suppressive measures as far as practicable. As there were no air monitoring results exceeding the limit level, it is considered that the dust mitigation measures implemented were effective in suppressing the fugitive dust. Nevertheless, as the construction site is close to the residential area, both the | Sent to EPD on 3 November 2022 | TCS00864/ 16/300/F59 6 |



| Log ref. | Date of Complai nt | Receive | Complaint Location | Compl ainant | | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
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| | | | | | | | | the construction dust | | | |
| 82 | 17/May/ 2023 | 19/May/ 2023 | Anderson Road Quarry (ARQ) Site | DSD | Water Quality | DSD | NA | from DSD concerning muddy water was observed entering Tsui Ping River from the upstream in the afternoon of 17 th May 2023, with similar situation at Po Lam Road (山渠)。 The case was then referred from EPD to CEDD for follow-up. Environmental Team (ET) initiated the handing procedure in accordance with the Environmental Monitoring & Audit Manual to investigate whether it is related to the Project of Development | As a matter of fact, the heavy rains led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. There was no evident muddy water discharge from ARQ Site in the afternoon of 17 th May 2023. Therefore, it is considered unlikely that the muddy water discharge observed by DSD in the afternoon of 17 May 2023 was caused by the ARQ contracts of Contract 1 or Contract 4. During the wet season, the Contractor was strongly reminded to implement adequate water quality mitigation measures to minimise the impact arising from the construction site. The Contractor should closely monitor the quality if the discharge from the Site to avoid non-compliance. The ET will pay special attention to the implementation of water quality mitigation measures on site through regular site inspections, and | Sent to EPD on 29 May 2023 | |



| 83 4 July 2 4 July 2 023 A July 2 4 July 2 Considered unlikely 2023. Road Quarry (ARQ) Site DSD Water Quality DSD NA Ping River from the morning of 4 July 2023. EPD on 18 16/300/F 93 023 023 023 023 Quarry (ARQ) Site DSD NA Ping River from the morning of 4 July 2023, with similar situation at Point the morning of 4 July 2023 was caused EPD on 18 16/300/F | Log ref. | Date of Complai nt | Receive | Complaint Location | Compl ainant | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
|--|-------------|--------------------------|---------|-----------------------|-----------------|---------|----------|---|---|-----------------------------------|------------------------------|
| Lam Road (山渠). Lam Road (山渠). by the ARQ contracts of Contract 1 or Contract 4. During the wet season, the Contractor was strongly reminded to implement adequate water quality mitigation measures to minimise the impact arising from the construction site. The Contractor should closely monitor the quality of the discharge | 83 | | | Road Quarry | DSD | DSD | | from DSD concerning muddy water was observed entering Tsui Ping River from the upstream in the morning of 4 July 2023, with similar situation at Po | necessary. The case was then referred from EPD to CEDD for follow-up. Environmental Team (ET) initiated the handling procedure in accordance with the Environmental Monitoring & Audit Manual to investigate whether it is related to the Project of Development of Anderson Road Quarry (ARQ) Site. As a matter of fact, the heavy rains led to large amount of storm runoff from roads and landscape into the public drainage system, which deteriorated the water quality in the drainage system. There was no evident muddy water discharge from ARQ Site in the morning of 4 July 2023. Therefore, it is considered unlikely that the muddy water discharge observed by DSD in the morning of 4 July 2023 was caused by the ARQ contracts of Contract 1 or Contract 4. During the wet season, the Contractor was strongly reminded to implement adequate water quality mitigation measures to minimise the impact arising from the construction site. The Contractor should | Sent to EPD on 18 July 2023 | TCS00864/ 16/300/F65 3 |



| Log ref. | Date of Complai nt | Receive | - | Compl ainant | Complaint nature | Channel | Ref. no. | Complaint details | Follow up action | Log ref. | Date of Complaint |
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| | | | | | | | | | remedial action when necessary. | | |



Appendix N

Implementation Status for Water Quality Mitigation Measures

 $Z: \label{eq:loss} 2016 \label{eq:loss} CEDD \label{eq:loss} CEDD \label{eq:loss} A Report \label{eq:loss} Submission \label{eq:loss} Monthly EM \mbox{\ensuremath{\mathbb{K}}A Report \mbox{\ensuremath{\mathbb{K}}O673v1.docx}} docx \mbox{\ensuremath{\mathbb{K}}O673v1.docx} docx \mbox{\ensuremath{\mathbb{K$

Water Quality Mitigation Measure



cu.m per hour + WETSEP