

JOB NO.: TCS00864/16

CEDD SERVICE CONTRACT NO. NTE/07/2016 ENVIRONMENTAL TEAM FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE – SITE FORMATION AND ASSOCIATED INFRASTRUCTURE WORKS

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT Report (January 2022)

PREPARED FOR CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date	Reference No.	Prepared By	Certified By
22 February 2022	TCS00864/16/600/R0532v1	Anh	Am

Nicola Hon (Environmental Consultant) Tam Tak Wing (Environmental Team Leader)

Version	Date	Remarks
1	22 February 2022	First Submission

 $Z: \label{eq:loss} 2016 \ CEDD \ end{tabular} A Report \ Submission \ Monthly \ EM\&A \ Report \ 2022 \ January \ R0532v1. docx \ R0532v1. \ Submission \ R0532v1. \ R0532v1. \ Submission \ R0532v1.$



Civil Engineering and Development Department	Your reference:		
East Development Office			
8/F, South Tower, West Kowloon Government Offices	Our reference:	HKCEDD10/50/107846	
11 Hoi Ting Road			
Yau Ma Tei	Date:	24 February 2022	
Kowloon			

Attention: Mr Lam Sai Wing, Sam

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 (January 2022)

We refer to the email of 22 February 2022 from Action-United Environmental Services and Consulting attaching a Monthly Environmental Monitoring and Audit Report (January 2022) for the captioned project.

We have no comment and hereby verify the captioned report.

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

Yours faithfully ANEWR CONSULTING LIMITED

amo

James Choi Independent Environmental Checker

CPSJ/LCCR/YCFF/lsmt

cc CEDD – Mr Ryan Chi (email: rcychi@cedd.gov.hk)
 CEDD – Mr Ken Wong (email: heilongwong@cedd.gov.hk)
 AECOM – Mr Tommy Li (email: c1-srec2@arqaecom.com)
 AECOM – Mr Bill C P Hon (email: c2-srec3@arqaecom.com)
 AECOM – Mr Brad C W Chan (email: c3-srec4@arqaecom.com)
 AUES – Mr T W Tam (email: twtam@fordbusiness.com)

ANewR Consulting Limited Unit 517, 5/F, Tower A, Regent Centre 63 Wo Yi Hop Road, Kwai Chung, Hong Kong Tel: (852) 2618 2831 Fax: (852) 3007 8648 Email: info@anewr.com Web: www.anewr.com





EXECUTIVE SUMMARY

- ES01 Action-United Environmental Services & Consulting (AUES) has been awarded the Civil Engineering and Development Department (CEDD) Service Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract") on 15 December 2016. The commencement date of the Service Contract is from December 2016 and the Contract Period is 70 months.
- ES02 The Services under the Service Contract is to provide environmental monitoring and audit (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 Anderson Road Quarry and other relevant statutory requirements.
- ES03 To facilitate the project management and implementation, the Service Contract has been divided to three CEDD contracts including Contract NE/2016/01 (Contract 1), Contract NE/2016/05 (Contract 2) and Contract NE/2017/03 (Contract 3). As advised by the Resident Engineer (RE), the commencement date of Contract 1 was 21 December 2016 and the major construction works has been commenced on 12 April 2017. The commencement date of Contract 2 was 31 March 2017 and the major construction activities have been commenced on 2 May 2017. Furthermore, Contract 3 was commenced on 31 May 2018 and the major construction activities works was commenced in November 2018. The EM&A programme under the Project was commenced on 12 April 2017 pursuant to the requirement under the EM&A manual. In addition, variation order for extend service scope to E5, E6, E7 and C10 under Contract ED/2019/02 (Contract 5) was issued by AECOM. The commencement date of Contract 5 was on 30 March 2021. Moreover, variation order for extend service under Contract ED/2020/02 (Contract 4) was issued by AECOM. The commencement date of Contract 4 was on 27 September 2021.
- ES04 This is the **58th** monthly EM&A report presenting the monitoring results and inspection findings for the period from **1 to 31 January 2022** (hereinafter 'the Reporting Period').

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES05 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	6	108	
Air Quality	24-hour TSP	4	24	
Construction Noise	L _{eq(30min)} Daytime for Contract NE/2016/01	7	34	
	L _{eq(30min)} Daytime for Contract NE/2017/03	3	12	

BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES06 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	Action	T imit	Event & Action		
Environmental Aspect	0	Action Level		NOE Issued	Investigation	Corrective Actions
Air Quality	1-hour TSP	0	0	0	NA	NA
	24-hour TSP	0	0	0	NA	NA



Environmontal	Monitoring Action		I imit	Event & Action		
	Parameters		Linnt Level	NOF		Corrective Actions
Construction Noise	L _{eq(30min)} Daytime	0	0	0	NA	NA

ENVIRONMENTAL COMPLAINT

ES07 In the reporting period, no environmental complaint was received.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES08 No environmental summons or successful prosecutions for the Project were recorded in the Reporting Period.

REPORTING CHANGE

ES09 There is no reporting change in the Reporting Period.

SITE INSPECTION

- **ES10** In this Reporting Period, joint site inspections to evaluate the site environmental performance for Contract 1 were carried out by the RE, ET and Contractor on 6, 11, 18, 25 and 31 January 2022 in which IEC joined the site inspection with SSEMC on 6 January 2022. No non-compliance was noted during the site inspection.
- ES11 In this Reporting Period, joint site inspections to evaluate the site environmental performance for Contract 2 were carried out by the RE, ET and Contractor on 5, 12, 19 and 26 January 2022 in which IEC joined the site inspection on 26 January 2022. No non-compliance was noted during the 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 7, 14, 18 and 28 January 2022 in which IEC joined the site inspection with SSEMC on 18 January 2022. 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 5, 12, 19 and 26 January 2022 in which IEC joined the site inspection with SSEMC on 19 January 2022. 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 6, 13, 20 and 28 January 2022 in which IEC joined the site inspection with SSEMC on 28 January 2022. No non-compliance was noted during the site inspection.

FUTURE KEY ISSUES

- **ES15** During dry season, the Contractors should fully implement air quality mitigation measures to reduce construction dust emission as far as practicable. Furthermore, since construction site is highly visible to the resident at nearby estates, noise mitigation measures such as using of quiet plants should be implemented in accordance with the EM&A requirement.
- 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.



Table of Contents

1.	INTRODUCTION	1
	1.1 PROJECT BACKGROUND	1
	1.2 REPORT STRUCTURE	1
2.	PROJECT ORGANIZATION AND CONSTRUCTION PROGRESS	3
	2.1 CONSTRUCTION CONTRACT PACKAGING	3
	2.2 PROJECT ORGANIZATION	4
	2.3 CONSTRUCTION PROGRESS	4
3.	SUMMARY OF IMPACT MONITORING REQUIREMENTS	13
	3.1 GENERAL	13
	3.2 MONITORING PARAMETERS	13
	3.3 MONITORING LOCATIONS	13
	3.4 MONITORING FREQUENCY AND PERIOD	15
	3.5 MONITORING EQUIPMENT	16
	3.6 MONITORING METHODOLOGY	16
	3.7 DERIVATION OF ACTION/LIMIT (A/L) LEVELS	18
	3.8 DATA MANAGEMENT AND DATA QA/QC CONTROL	19
4.	AIR QUALITY MONITORING	21
	4.1 GENERAL	21
	4.2 RESULTS OF AIR QUALITY MONITORING	21
5.	CONSTRUCTION NOISE MONITORING	23
	5.1 GENERAL	23
	5.2 NOISE MONITORING RESULTS IN REPORTING MONTH	23
6.	WASTE MANAGEMENT	25
υ.	6.1 GENERAL WASTE MANAGEMENT	23 25
	6.2 RECORDS OF WASTE QUANTITIES	25
_		
7.	SITE INSPECTION	27
	7.1 REQUIREMENTS	27
	7.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH	27
8.	ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE	30
	8.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION	30
9.	IMPLEMENTATION STATUS OF MITIGATION MEASURES	32
	9.1 GENERAL REQUIREMENTS	32
	9.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH	32
	9.3 KEY ISSUES FOR THE COMING MONTH	35
10.	CONCLUSIONS AND RECOMMENDATIONS	37
	10.1 CONCLUSIONS	37
	10.2 RECOMMENDATIONS	37



LIST OF TABLES

TABLE 2-1	STATUS OF ENVIRONMENTAL LICENSES AND PERMITS OF THE CONTRACT 1
TABLE 2-2	STATUS OF ENVIRONMENTAL LICENSES AND PERMITS OF THE CONTRACT 2
TABLE 2-3	STATUS OF ENVIRONMENTAL LICENSES AND PERMITS OF THE CONTRACT 3
TABLE 2-4	STATUS OF ENVIRONMENTAL LICENSES AND PERMITS OF THE CONTRACT 4
TABLE 2-5	STATUS OF ENVIRONMENTAL LICENSES AND PERMITS OF THE CONTRACT 5
TABLE 3-1	SUMMARY OF EM&A REQUIREMENTS
TABLE 3-2	IMPACT MONITORING STATIONS - AIR QUALITY
TABLE 3-3	IMPACT MONITORING STATIONS - CONSTRUCTION NOISE
TABLE 3-4	ADDITIONAL IMPACT MONITORING STATIONS – CONSTRUCTION NOISE
TABLE 3-5	AIR QUALITY MONITORING EQUIPMENT
TABLE 3-6	CONSTRUCTION NOISE MONITORING EQUIPMENT
TABLE 3-7	ACTION AND LIMIT LEVELS FOR AIR QUALITY MONITORING
TABLE 3-8	ACTION AND LIMIT LEVELS FOR CONSTRUCTION NOISE
TABLE 4-1	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-1)
TABLE 4-2	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-2)
TABLE 4-3	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-3)
TABLE 4-4	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-5)
TABLE 4-5	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-6)
TABLE 4-6	SUMMARY OF 24-HOUR AND 1-HOUR TSP MONITORING RESULTS (AMS-7)
TABLE 5-1	SUMMARY OF CONSTRUCTION NOISE MONITORING RESULTS
TABLE 5-1a	SUMMARY OF CONSTRUCTION NOISE MONITORING RESULTS
TABLE 5-2	SUMMARY OF CONSTRUCTION NOISE MONITORING RESULTS
TABLE 6-1	SUMMARY OF QUANTITIES OF INERT C&D MATERIALS
TABLE 6-2	SUMMARY OF QUANTITIES OF C&D WASTES
TABLE 7-1	SITE OBSERVATIONS OF CONTRACT 1
TABLE 7-2	SITE OBSERVATIONS OF CONTRACT 2
TABLE 7-3	SITE OBSERVATIONS OF CONTRACT 3
TABLE 7-4	SITE OBSERVATIONS OF CONTRACT 4
TABLE 7-5	SITE OBSERVATIONS OF CONTRACT 5
TABLE 8-1	STATISTICAL SUMMARY OF ENVIRONMENTAL COMPLAINTS
TABLE 8-2	STATISTICAL SUMMARY OF ENVIRONMENTAL SUMMONS
TABLE 8-3	STATISTICAL SUMMARY OF ENVIRONMENTAL PROSECUTION
TABLE 9-1	ENVIRONMENTAL MITIGATION MEASURES
LIST OF APPE	ENDICES
APPENDIX A	LAYOUT PLAN OF THE PROJECT
APPENDIX B	PROJECT ORGANIZATION STRUCTURE
APPENDIX C	THREE-MONTHS ROLLING CONSTRUCTION PROGRAMME
APPENDIX D	MONITORING LOCATIONS FOR IMPACT MONITORING
APPENDIX E	CALIBRATION CERTIFICATE OF MONITORING EQUIPMENT AND HOKLAS-ACCREDITATION CERTIFICATE OF THE TESTING LABORATORY
A DDENIDIV E	EVENIT AND A CITION DI ANI

- APPENDIX F EVENT AND ACTION PLAN
- APPENDIX G IMPACT MONITORING SCHEDULE
- APPENDIX H DATABASE OF MONITORING RESULT
- APPENDIX I GRAPHICAL PLOTS FOR MONITORING RESULT



APPENDIX J	METEOROLOGICAL DATA
APPENDIX K	WASTE FLOW TABLE
APPENDIX L	IMPLEMENTATION SCHEDULE FOR ENVIRONMENTAL MITIGATION MEASURES
APPENDIX M	COMPLAINT LOG
APPENDIX N	IMPLEMENTATION STATUS FOR WATER QUALITY MITIGATION MEASURES



INTRODUCTION

1.1 PROJECT BACKGROUND

- 1.1.1 Action-United Environmental Services & Consulting (hereinafter referred as "AUES") has been awarded the CEDD Service Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works (hereinafter called "the Service Contract") on 15 December 2016. The commencement date of the Service Contract was December 2016 and the Contract Period is 70 months.
- 1.1.2 The Services under the Service Contract is to provide environmental monitoring and audit (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.
- 1.1.3 Development of Anderson Road Quarry is to provide land and the associated infrastructures for the proposed land used at the existing Anderson Road Quarry Site at the North-eastern of East Kowloon according to the final Recommended Outline Development Plan (hereinafter named as the Project Works).
- 1.1.4 To facilitate the project management and implementation, the Service Contract has been divided to three CEDD contracts including Contract NE/2016/01 (Contract 1), Contract NE/2016/05 (Contract 2) and Contract NE/2017/03 (Contract 3). As advised by the Resident Engineer (RE), the commencement date of Contract 1 was 21 December 2016 and the major construction works has been commenced on 12 April 2017. The commencement date of Contract 2 was 31 March 2017 and the major construction activities have been commenced on 2 May 2017. Furthermore, Contract 3 was commenced on 31 May 2018 and the major construction activities works was commenced in November 2018. The EM&A programme under the Project was commenced on 12 April 2017 pursuant to the requirement under the EM&A manual. In addition, variation order for extend service scope to E5, E6, E7 and C10 under Contract 5 was on 30 March 2021. Moreover, variation order for extend service under Contract ED/2020/02 (Contract 4) was issued by AECOM. The commencement date of Contract 4 was on 27 September 2021.
- 1.1.5 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.
- 1.1.6 This is the **58th** monthly EM&A report presenting the monitoring results and inspection findings for the period from **1 to 31 January 2022** (hereinafter referred as "Reporting Period").

1.2 1.2 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 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 31 March 2017 and 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;
 - (iv) Construction of green routes connecting to Jordan Valley Park and Choi Wing Road; and
 - (v) Slope improvement works in the vicinity of Po Lam Road South and other associated works.

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

- 2.1.4 The commencement date of Contract 3 is on 31 May 2018 and 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 on 27 September 2021 and the major Scope of Work of the Contract 4 is listed below:
 - Construction of hard landscaping and other ancillary works (e.g. paver footpath, planter walls, benches, lighting etc.);
 - Construction of soft landscaping works;
 - Lighting, irrigation, electrical and mechanical engineering works within the landscaping area;
 - Construction of landscape deck; and
 - Electrical and mechanical works for underground water treatment facilities and pumping system for Regional Open Space and Artificial Flood Attenuation Lake.

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

- 2.1.6 The commencement date of Contract 5 is on 30 March 2021 and the major Scope of Work of the Contract 5 is listed below:
 - Construction of two-way escalator link between Sau Mau Ping Road and the existing footbridge to Po Tat Estate;
 - Construction of two-way escalator link between Sau Mau Ping South Estate and the existing footbridge to Sau Mau Ping Road;
 - Construction of footbridge, 3m, clear width, with and about 20m high lift tower between Hiu Kwong Street and the podium of Sau Ming House, Sau Mau Ping Estate;
 - Construction of footbridge, 3m clear width, with an about 40m high lift tower between Sau Mau Ping Road and the podium of Po Tat Estate; and
 - Ancillary works including associated civil, geotechnical, structural, electrical and mechanical engineering and landscaping works.

2.2 **PROJECT ORGANIZATION**

2.2.1 The project organization and contact details for Contracts 1, 2, 3, 4 and 5 are shown in *Appendix B*.

2.3 CONSTRUCTION PROGRESS

2.3.1 The 3-month rolling construction programme for Contracts 1, 2, 3, 4 and 5 are shown in *Appendix C*. The major construction activities conducted in the Reporting Period are summarized in below.

Contract 1 (NE/2016/01)

East Portal Area:

- RWA1C Bay 2 & 3 base slab completed and Bay 2 stem wall complete and formwork and rebar for bay 3 in progress.
- Buttress wall (left and right) construction works completed from 164mPD to 172mPD (LHS) and 164mPD to 170mPD (RHS).
- Construction of RWA1B Retaining Wall completed
- Rock cut slope A1



- Rock dowel at slope A1 164mPD to 169mPD level, drilling holes for rock dowel in progress 48/48nos completed.
- Installation of the cross-ducting pipes complete.
- Laying the WSD 150PE pipe at east portal carriageway and pressure test complete.
- Laying the 2nd road base bitumen complete.
- Bay 4 RWA1c drilling vertical dowel bar completed and L-shaped dowel bar for RWA1c Type 1 buttress wall total 21nos complete.
- Cast concrete of Pillar Box and Kiosk complete and install stone pitch completed
- Formworks for construction 900sc, catchpit and 1000mm downpipe at Slope A1 and 185mPD platform in progress

West Portal Area:

- Buttress wall (left) from 178.5mPD to 186.5mPD complete.
- Buttress wall (right) from 170 to 178mPD in progress at Slope A3 near West Portal.
- Slope A3, Construction of 200mPD, 186mPd and 178mPD berm in progress.

Underpass Tunnel:

- Tunnel Concrete Lining construction works (Total 25 Bays) included B1 with West portal structure and Bay 25 with East Portal structure, and progress upto Bay 24 (124m), Bay 25 and East Portal structure (excluding headwall) completed west portal structure completed and construction of headwall completed, construction of headwall at East Portal completed.
- Excavation for Box Culvert BC3 completed and structure works completed.
- Erection and installation of the VE Panel sub-frame in progress and 90% complete.
- Construction of mass concrete wall in underpass completed 260m/260m.
- Painting the 1st, 2nd & 3rd layer on lining structure completed.
- Installation of the profile barrier inside underpass (LHS and RHS) completed 260m/260m.
- Rock excavation of Manhole A4 and 900mm stormwater drainage pipe completed at East Portal and construction of manhole A4 with backdrop completed and laying of 900mm pipe completed.
- Excavation works for manhole R618 to R623 completed and installation of manholes R618 to R623 completed.
- Laying of 300mm thick drainage layer, 225mm thick subbase and geotextile complete.
- Laying road base bituminous insider underpass complete

Po Lam Road

- Excavation work in progress to install ducting pipes and draw pits and installation of k1 kerb in progress
- Removal the existing concrete pavement completed for installation of ducting crossing pipes.
- Reinstatement of the concrete carriageway at Po Lam road at stage 3 in progress.
- Re-build the modification catch pit at Po Lam road and Slope A1 complete.
- 900sc excavation work completed
- Structure works for traffic sign board footing DS01 and polar mount footing complete.
- Installation of the beam barrier at Po Lam Road Layby complete
- Installation of 2 of 3 no of lighting complete at Po Lam Road
- Stage 2 TTA at Po Lam Road implemented and completed
- Installation of 3nos manholes and gully complete
- Construction double island and concrete carriageway completed at stage 3
- reinstatement works of temporary footpath are completed

Retaining Wall RWA12

- RWA12 Bay 1 to Bay 27 base slab construction completed.
- RWA 12 Bay 1 to Bay 14, Bays 22 to Bay 27 wall construction complete.



- RWA 12 Bay 17 to Bay 21 wall stem (up to +165) complete. Wall stem construction to +170mPD in progress.
- RWA 12 Bay 23 to Bay 26 backfilled to +170.7 complete for setting up of mobile crane for System A construction.
- RWA 12 Bay 15 and Bay 16 temporary concrete block wall construction complete.
- RWA 12 Bay 17 to Bay 20 temporary cantilever platform construction complete.
- RWA12 Bay 15 and Bay 16 wall stem construction (Stage 1) complete.
- Cascade and CP17.1 structure complete. S201A manhole structure complete. Type II railing on CP-17-1 complete. DN600 pipe from manhole R343 to CP17-1 complete.
- RWA 12 Bay 17&20 wall stem construction (Stage 3) and Bay 21 wall stem construction (Stage 2) complete.
- RWA 12 wall construction complete.
- Backfilling G200 rock behind bays 7-21 complete.
- Sewerage manhole construction and pipe installation from B221 to B223 complete. Drainage manhole construction and pipe installation from S008 to S007c complete Road drainage manhole construction and pipe installation from R403a to R412 and R406 to R412 completed.
- Drainage special manhole R343 construction completed, backdrop for R343 in progress.
- UU installation in progress.
- Watermain laying completed form CHC390 to CHC424 completed and excavation from CHC424 to CHC474 in progress.

Water Reservoir:

- The water tightness test for Salt Water Reservoir complete and passed and Fresh Water Reservoir water tightness test complete and pass, defect rectification works completed.
- Rock excavation work to formation level outside water reservoir completed and soil excavation work (to formation level) completed. Rock excavation for drainage works completed. Manhole construction and Drainage Pipe laying are completed, Backfilling works completed. The excavation works of VC chambers (Watermain) and additional dia.600mm drainage pipe with manhole completed. The construction of recorder houses complete. The construction of valve chamber completed and watermain laying almost completed.
- Rock trench excavation for watermain and utilities along WSD access road completed.
- Pipe laying along WSD access road in progress, 90% complete.
- Concreting of pipe plinths and staircase for downpipe from reservoir to PTT was completed. Downpipe installation from ~210mPD to 230mPD complete.
- Downpipe installation from PTT to Reservoir completed.
- Water pressure test for DN250 Downpipe completed.

Water Pumping Station, Retaining Wall RWA13 and RWA14:

- Backfill retaining wall RWA13 and RWA14 Bay 9-14 complete.
- Rock excavation for Watermain works completed. The chambers (VC8, VC9, EFM & DN450 valve) construction works pipe laying complete.
- Metal Works and ABWF Work are completed. E&M Works at Water Pumping Station in progress.
- Mapping works and excavation of A13 Slope completed. Mass concrete fill works (VO/238) complete.
- Pipe laying of watermain behind retaining wall RWA13 was completed.
- Excavation and construction work of drawpit and ducting works in progress.
- Excavation work and construction work of Boundary Fence Footing in progress.
- Rock breaking to road formation level completed. Rock breaking to bedding level of watermain from pumping station to RWA13 complete.
- All watermains from pumping station to RWA13 have been laid.
- Stone Block Facing Works for RWA13 in progress.
- Pipe laying along WSD access road completed.
- Water pressure test and swabbing for CHE0 to CHE516 completed



Cavern at Portion B5:

- Rock fall fence installation complete.
- Rock breaking of existing rock slope at Ch210-Ch225 on level +200mPD 206mPD complete.
- Rock breaking of existing rock slope at Ch0-Ch248 slope toe complete.
- Mapping of sub area SA1 to SA13 complete.
- Rock dowel construction from CH5 CH200 +201mPD to +210mPD complete
- Erection of Inspection scaffold completed from CH0 to CH255.367 on 230m PD.
- UC construction at CH248 +205mPD berm complete.
- UC construction at CH0 to CH248 +230mPD berm in progress.
- Rock breaking of existing rock slope at Ch180-Ch248 on level +196mPD 200mPD in progress.
- Rock dowel construction at Ch0-248 on +230 to +250 completed.
- Rock dowel construction at Ch200-240 on +201 to +210.5 in progress.
- Construction of Inspection scaffold on Temporary Triangle bracket completed.
- Mapping & Scaling of Rock Slope from CH5-CH170 +210mPD to +230mPD complete.

Pedestrian Connectivity System B (PC System B):

- PC System B structure complete, South Tower structure Rock fill completed.
- 1050mm dia. pipe from M/H S311 to S312 installation completed.
- Internal ABWF works in System B in progress

Construction of Internal Road L1:

- Road breaking and drainage works for road L1 west in progress.
- Drainage works for road L1 east cycle track in progress.
- Watermain construction in progress, 80 % complete. Rock breaking for watermain at L1 west in progress.
- Road L1 west lower level and middle level drainage construction in progress lower drainage complete middle drainage 70%, upper level 10% and gully pipe rock breaking in progress.
- Road L1 east lower level and middle level drainage construction in progress lower drainage completed 100% middle drainage 90%, upper level and gully pipe rock breaking in progress.
- Construction of Infiltration Planter in Progress, and 70% completed.
- Kerb laying, asphalt paving in progress.
- Formation of footpath and cycle track in progress.

PTT:

- Completed backfilling to sub-base level for concrete pavement works at Row A B, B C, C – D, D - E.
- Steel work erection for PTT cover structure in progress (90% complete).
- PMMA Panel Installation work in progress (80% complete).
- Drainage work at Row A-B (100% complete) Row B-C (100% complete), C-D (100% complete), D-E (100 % complete), Downpipe catchpit pipe laying and construction (100% complete).
- Concrete pavement construction in progress. (25% complete)
- Noise Barrier in progress

MEP Works:

- Submission of designs and materials related to MEP works to continue.
- E&M installation works at PTT to continue.
- E&M installation works at Underground Stormwater Retention Tank to continue.
- E&M installation works at Pedestrian Connectivity System B to continue.
- Lighting installation works at Pedestrian Connectivity System B completed.
- Sump Pump installation works at Pedestrian Connectivity System B completed.
- E&M installation works at Underpass to continue.



- Cable & Lighting Supporting Frame installation works at Underpass completed.
- E&M installation works at Fresh Water Pumping station to continue.
- Road lighting fitting installation at Underpass complete.
- Road lighting fitting installation at Public Transport Terminus complete.
- E&M installation works at Pillar Box (East portal) to continue.
- E&M installation works at the cleansing pump room (Fresh Water Pumping Station) to continue.
- E&M installation works at the EMF & valve chamber VC8 (Fresh Water Pumping Station) to continue.
- T&C of Fresh Water Pumping Station to continue.

Existing Anderson Road:

- Temporary slope protection works for pipe trough excavation completed.
- Pipe trough construction completed.
- Watermain laying from CHD0~424 completed.
- Water pressure test and swabbing for CHD0~424 completed.
- Trial pits at watermain connection point were excavated to identify existing water pipes. Water connection to be carried out by WSD in late-Jan.

<u>Hiking Trail</u>

- Site Clearance in progress from CH470 to 1000.
- Construction of footpath and staircase in progress from CH1000 to 1910.
- Site clearance is in progressing at B5 due to adverse weather
- Hydroseeding of Hiking Trial completed.

Contract 2 (NE/2016/05)

- Temporary Traffic Arrangement (TTA)
- Soil Nail Construction
- Mass Concrete construction
- Formwork and Falsework installation and dismantling
- Lifting Tower Construction
- Rebar fixing

Contract 3 (NE/2017/03)

Works in Road Improvement Works 1 (RIW1)

- Construct RC works & backfilling at Type 2 are in-progress.
- Construct socketed H pile at RWC2 Type 3 for piling construction are in-progress; Rock excavation at RWC2 Type 3 are in-progress.
- Preparation works of drainage diversion at Type 4 is in-progress.
- Backfilling works at Type 6 to 8 is in-progress.
- Mini-pile works at FE1-PC1b is in-progress.
- Excavate trial pit works at CT5 is in-progress.
- Drainage works at KS27 (West Side) also is in-progress; Install sheet pile & ELS works at KS27 (East Side) near Shun Lee Estate.

Works in Road Improvement Works 2 (RIW2)

- Construct RC works at RWC3b; Rock excavation & ELS works at RWC3b are in-progress.
- Install pipe pile wall at CT4 roadside is in-progress.
- Construct mini-pile works at SE2 (hill side toward Sai Keung direction) is in-progress; Excavate for expose utilities and utilities protection / diversion are in-progress.

Works in Road Improvement Works 3 (RIW3)

Excavate trial pits at Sau Mui Ping Road / Lin Tak Road for watermain alignment



confirmation in-progress.

- Concreting and backfilling works at RWD1 Bay 1 10.
- ELS works at RWD1 Bay 11 14 is in-progress.
- Rock excavate at Slope D1 lower portion is in-progress.
- Road works and backfilling works at Slope D2 are in-progress.
- Rock excavation using drill & split method, drainage works and road works at Slope D3 / Lin Tak Road are in-progress.

Pedestrian Connectivity Facility E8 (PC-E8)

• Touch-up outstanding works are in progress.

Pedestrian Connectivity Facility E11 (PC-E11)

- ABWF works and E&M works at LT2 & ST2 are in-progress.
- ABWF works and E&M works at LT1 & ST1 are in-progress.
- ABWF work and E&M works inside the footbridge steel frame are in-progress.

Pedestrian Connectivity Facilities Systems A (PC-SYA)

- ABWF works and E&M works at LT1, LT2 & ST1 are in-progress.
- Erect steel works inside RC structure is in-progress.

Pedestrian Connectivity Facilities Systems B (PC-SYB)

- RC works at SyB-LT1 & ST1 is in-progress.
- Construct pile cap at PC4 & PC6 are in-progress.
- Install sheet-pile and excavation works at PC1 are in-progress.

Tseung Kwan O Bus-Bus Interchange New Public Toilet (BBI-Toilet)

• The completed toilet was handed over to Food and Environmental Hygiene Department on 30 September 2020; Additional works under an instruction is in-progress.

Contract 4 (ED/2020/02)

- Completion of CRE Office & Chainlink Fence
- Completion of GI works at Portion 14 and Commence GI works at Portion 3
- Complete Modification of RWA10 Footing
- Site Drainage work at Portion 2a, 8 and 12
- Site Formation work at Portion 8
- Hard Landscaping at Portion 2b (Gabion, rockfill, stone facing)
- Construction of Staircase, U-channel repairing work, Railing Installation at Portion 10

Contract 5 (ED/2019/02)

Portion 1

- Tube Channel for soil transport
- Forming PC2 Piling Platform
- Reinstatement of E5-BH1(P)

Portion 2

- Welding Test
- Magnetic Particle Inspection
- Bending Test
- Piling Works
- Grouting Works

Portion 3

- Staircase Diversion Works
- Internal Trial Run

Portion 4

- Exposing Rock Surface at E10-F3
- Excavation at E10-F1



- Rock Fall Fence Construction
- 2.3.3 Summary of the relevant permits, licenses, and/or notifications on environmental protection for the Project of contracts 1, 2, 3, 4 and 5 are presented in *Tables 2-1, 2-2, 2-3, 2-4 and 2-5*.

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

		Lice	ense/Permit St	tatus	
Item	Description	Permit no./ account	Valid Period		
	-	no./ Ref. no.	From	То	Status
1	Form NA – Notification pursuant to Air pollution Control (Construction Dust) Regulation	EPD ref. no. 411762	NA	NA	Valid
	Form NB – Notification pursuant to Air pollution Control (Construction Dust) Regulation	EPD ref. no. 412730	NA	NA	Valid
2	Chemical Waste Producer Registration	Registration no. WPN 5213-292-C4115-01	15 Feb 17	End of project	Valid
3	Water Pollution Control Ordinance – Discharge License	WT00028050-2017	29 May 17	31 May 22	Valid
4	WasteDisposalRegulation–BillingAccount for Disposal ofConstruction Waste	Account no. 7026925	20 Jan 17	End of project	Valid
5	Construction Noise Permit	GW-RE0005-22	25 Jan 22	24 July 22	Valid
		GW-RE1335-21	26 Jan 22	25 July 22	Valid
		GW-RE0035-22	24 Jan 22	22 April 22	Valid

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

		License/Permit Status			
Item	Description	Permit no./ account	Valid Period		Status
		no./ Ref. no.	From	То	Status
1	Notification pursuant to Air pollution Control (Construction Dust) Regulation	EPD ref. no. 312173	NA	NA	Valid
2	Chemical Waste Producer Registration	Registration no. WPN 5213-294-K2890-08	7 Jul 17	End of Project	Valid
3	Water Pollution Control Ordinance – Discharge	WT00028685-2017	02 Aug 17	31 Aug 22	Valid
	License	WT00028686-2017	02 Aug 17	31 Aug 22	Valid
		WT00028687-2017	02 Aug 17	31 Aug 22	Valid
4	WasteDisposalRegulation–BillingAccount for Disposal ofConstruction Waste	Account no.7027548	12 Apr 17	End of project	Valid



		License/Permit Status			
Item	Description	Permit no./ account Valid Period		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
		For Area E8 Registration no. WPN 5213-292-C4239-06	6-Aug-18	End of Project	Valid
3	WaterPollutionControlOrdinance	For Area R1W3 (E11) WT00032742-2018	18-Jan-19	31-Jan-24	Valid
	DischargeLicense	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	WasteDisposalRegulation-BillingAccount forDisposalofConstructionWaste	Account no.7031075	20-Jun-18	End of project	Valid

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

	License/Pe		se/Permit Sta	e/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. 470496	19 August 2021	NA	Valid
2	Waste Disposal Regulation – Billing Account for Disposal of Construction Waste	Account no. 7041336	6 September 2021	NA	Valid
3	Chemical Waste Producer	Registration no. WPN 5213-296-C1206-12	14 September	End of project	Valid



		License/Permit Status			
Item	Description	Permit no./ account	Valid	Period	Status
		no./ Ref. no.	From	То	
	Registration		21		
4	WaterPollutionControlOrdinance-DischargeLicense	Working in Progress			

Table 2-5	Status of Environmental Licenses and Permits of the Contract 5
	Status of Environmental Electises and I crimits of the Contract 5

		License/Permit Status			
Item	Description	Permit no./ account	Valid Period		Status
		no./ Ref. no.	From	То	
1	Form NA –	EPD ref. no. 466255	NA	NA	Valid
	Notification				
	pursuant to Air				
	Pollution Control				
	(Construction Dust) Regulation				
2	Chemical Waste	Registration no.		End of	
2	Producer	WPN 5298-293-W3611-01	12 May 21	project	Valid
	Registration		12 Widy 21	project	vana
3	Water Pollution				
	Control Ordinance	WT00039694-2021			Valid
	– Discharge	W100039094 2021			vana
	License				
4	Waste Disposal				
	Regulation –				
	Billing Account for	Working in Progress			
	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

THE EM&A PROGRAM OF CONSTRUCTION PHASE MONITORING SHALL COVER THE FOLLOWING ENVIRONMENTAL ISSUES:

- Air quality; and
- Construction noise

3.2.1 A summary of the monitoring parameters is presented in *Table 3-1*.

Table 3-1Summary of EM&A Requirements

Environmental Issue	Parameters
Ain Opelity	• 1-hour TSP by Real-Time Portable Dust Meter; and
Air Quality	• 24-hour TSP by High Volume Air Sampler
Noise	 Leq(30min) in normal working days (Monday to Saturday) 07:00-19:00 except public holiday
noise	• 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 3-2	Impact Monitoring Stations – Air Qual	ity
-----------	---------------------------------------	-----

ID	ASR ID in EIA	Location in the EM&A Manual	Identified Location during Site Visit	Status
AMS-1	ACYC-01	Chi Yum Ching	Thi Yum Ching Ground of Chi Yum Ching H	
		She	he facing the project site	
AMS-1a (*)	ACYC-01	Tan Shan	Ground of Tan Shan Village	Active
		Village No. 5 - 6	No. 5 - 6 facing the project site	
AMS-2 (#)	DARB-13	Block 8, Site B	Ground of Fung Tai House of	Active
			On Tai Estate	
AMS-3 (:)	DARC-16	Planned Clinic	ed Clinic Ground of Planned Clinic and	
		and Community	ommunity Community Centre facing	
		Centre, Site C2	Anderson Road (Ancillary	
			Facilities Building)	
AMS-4	DARC-26	Planned School,	Ground of Planned School	Not yet
		Site C2 Note 1	facing Anderson Road	commenced
AMS-5	DARE-06	Block 5, DAR	Main roof of Oi Tat House of	Active
		Site E	On Tat Estate facing the	



Monthly Environmental Monitoring & Audit Report (January 2022)

ID	ASR ID in EIA	Location in the EM&A Manual	Identified Location during Site Visit	Status
			project site	
AMS-6	DARE-17	Block 9, Site E	Main roof of Hau Tat House of On Tat Estate facing the	Active
			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.

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.

ID	NSR ID in EIA	Location	Status	
NMS-1	Site C2 –	Ground of planned school at DAR facing	Not yet	
	School 05 Note 1	the project site	commenced	
NMS-2	Site E – School	Rooftop of S.K.H. St. John's Tsang Shiu	Active	
(@)		Tim Primary School, where 1m from the		
		exterior of the building facing the project		
		site		
NMS-3(:	Site C2 – R102-	Ground of Ancillary Facilities Building	Active	
)		facing the project site		
NMS-4*	Oi Tat House	1m from the exterior of ground floor	Suspended	
		façade of Oi Tat House of On Tat Estate		
		facing the project site		
NMS-4a	Oi Tat House	Rooftop of Oi Tat House where 1m from	Active	
#		the exterior of Oi Tat House facing the		
		project site		
NMS-5#	Hau Tat House	22/F, refuge floor of Hau Tat House where	Active	
		1m from the exterior of Hau Tat House		
		facing the project site.		
NMS-6~	Yung Tai	1 0	Active	
	House of On	from the exterior of the building facing		
	Tai Estate	the project site)		
NMS-7~	Chi Tai House	Rooftop of Chi Tai House where 1m from	Active	
	of On Tai	the exterior of the building facing the		
	Estate	project site		

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



Monthly Environmental Monitoring & Audit Report (January 2022)

ID	NSR ID in EIA	Location	Status
NMS-8^	Yau Tong	1m from the exterior of the building façade and facing the construction site	Active
	Village		

Note 1: Construction of the 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
- (#) Review of noise monitoring locations was proposed by ET and NMS-5 was effective on 15 November 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.

Addition Construction Noise Monitoring Location

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.

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

Additional Impact Monitoring Stations – Construction Noise Table 3-4

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:
 - 3 times every six days during course of works throughout the construction 1-hour TSP 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*.

Tuble 8 6	mi Quanty momenting Eq	
Equipment		Model
24-hour TSP	High Volume Air Sampler	TISCH High Volume Air Sampler, HVS Model TE-5170
	Calibration Kit	TISCH Model TE-5025A
1- hour TSP	Portable Dust Meter	Sibata LD-3B Laser Dust Monitor

Table 3-5Air Quality Monitoring Equipment

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 3-6 Construction Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	Rion NL-31, NL-52
Calibrator	Rion NC-73, NC-75
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*.



<u>Noise Monitoring</u>

- 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*.

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

Monitoring Station	Action Level (µg /m ³)		Limit Level (µg/m ³)		
	1-hour TSP	24-hour TSP	1-hour TSP	24-hour TSP	
AMS-1	313	154	500	260	



Monthly Environmental Monitoring & Audit Report (January 2022)

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-1a(*)	313	154	500	260
AMS-2	319	165	500	260
AMS-3	319	165	500	260
AMS-4	315	165	500	260
AMS-5	299	166	500	260
AMS-6	303	168	500	260
AMS-7	307	156	500	260

(*) 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.

Table 3-8	Action and Limit Levels for Construction Noise
-----------	--

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

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

(*) Additional noise monitoring location was recommended by RE and agreed by IEC. It was Remark: 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.

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

3.8 DATA MANAGEMENT AND DATA QA/QC CONTROL

All monitoring data will be handled by the ET's in-house data recording and management 3.8.1 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.

3.8.2 For monitoring parameters that require laboratory analysis, the local laboratory shall follow the QA/QC requirements as set out under the HOKLAS scheme for the relevant laboratory tests.



4. AIR QUALITY MONITORING

4.1 GENERAL

- 4.2.1 In the Reporting Period, air quality monitoring was performed at the active designated monitoring locations AMS-1a, AMS-2, AMS-3, AMS-5, AMS-6 and AMS-7. Since installation of HVS for 24-hour TSP at AMS-2 and AMS-3 were pending approval from relevant departments, only 1-hour TSP monitoring was conducted at AMS-2 and AMS-3. No monitoring was conducted at AMS-4 since they are planned ASR which are still under construction/ not yet constructed.
- 4.2.2 The air quality monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

4.3 RESULTS OF AIR QUALITY MONITORING

4.3.1 In the Reporting Period, a total of *108* events of 1-hour TSP monitoring and *24* 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
3-Jan-22	21	5-Jan-22	13:41	76	82	84
8-Jan-22	24	11-Jan-22	13:56	68	70	66
14-Jan-22	18	17-Jan-22	8:54	71	77	73
20-Jan-22	18	22-Jan-22	9:03	80	77	81
26-Jan-22	9	28-Jan-22	13:22	66	70	72
29-Jan-22	13	31-Jan-22	14:02	72	76	77
Average	17	Averag	ge		74	
(Range)	(9 – 24)	(Rang	e)		(66 - 84)	

 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				
5-Jan-22	14:06	82	85	89				
11-Jan-22	13:51	90	86	92				
17-Jan-22	9:20	83	85	80				
22-Jan-22	9:14	89	84	86				
28-Jan-22	13:48	84	82	88				
31-Jan-22	14:26	92	99	105				
	erage		88					
(Ra	ange)		(80 - 105)					

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				
5-Jan-22	14:17	77	83	86				
11-Jan-22	14:28	85	82	89				
17-Jan-22	9:29	78	82	76				
22-Jan-22	9:31	86	91	88				
28-Jan-22	14:01	73	77	80				
31-Jan-22	14:38	76	72	79				
Ave	erage		81					

CEDD Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works



Monthly Environmental Monitoring & Audit Report (January 2022)

1-hour TSP (µg/m ³)							
Date	Start Time	1 st reading	2 nd reading	3 rd reading			
(Ra	ange)		(72 - 91)				

Table 4-4 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	
3-Jan-22	36	5-Jan-22	9:31	84	87	81	
8-Jan-22	39	11-Jan-22	9:18	93	92	88	
14-Jan-22	39	17-Jan-22	14:11	93	97	103	
20-Jan-22	33	22-Jan-22	13:54	96	94	89	
26-Jan-22	26	28-Jan-22	9:14	73	78	73	
29-Jan-22	36	31-Jan-22	8:57	85	93	94	
Average	35	Average		89			
(Range)	(26 - 39)	(Rang	e)	(73 – 103)			

Table 4-5	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	
3-Jan-22	59	5-Jan-22	9:12	80	85	82	
8-Jan-22	66	11-Jan-22	9:05	86	88	92	
14-Jan-22	66	17-Jan-22	13:57	89	95	101	
20-Jan-22	70	22-Jan-22	13:37	68	72	71	
26-Jan-22	36	28-Jan-22	9:02	71	76	72	
29-Jan-22	49	31-Jan-22	8:46	77	84	79	
Average (Range)	58 (36 - 70)	Average (Range)		82 (68 - 101)			

Summary of 24-hour and 1-hour TSP Monitoring Results (AMS-7) Table 4-6

	24-hour	1-hour TSP (µg/m³)					
Date	TSP (μg/m ³)	Date	Start Time	1 st reading	2 nd reading	3 rd reading	
3-Jan-22	66	5-Jan-22	8:48	78	81	75	
8-Jan-22	92	11-Jan-22	9:09	68	70	72	
14-Jan-22	36	17-Jan-22	13:35	85	87	93	
20-Jan-22	63	22-Jan-22	13:16	82	86	80	
26-Jan-22	32	28-Jan-22	8:36	71	74	69	
29-Jan-22	51	31-Jan-22	9:18	68	64	67	
Average (Range)	57 (32 - 92)	Average (Range)		76 (64 - 93)			

- 4.3.2 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.
- 4.3.3 The meteorological data during the impact monitoring days are summarized in Appendix J.



5. CONSTRUCTION NOISE MONITORING

5.1 GENERAL

- 5.2.1 In the Reporting Period, noise monitoring was performed at designated monitoring locations NMS2 and NMS3 and the additional monitoring locations NMS4a, NMS5, NMS6, NMS7 and NMS8. No monitoring was conducted at the designated monitoring locations NMS1 since they are the planned NSR and still under the construction.
- 5.2.2 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.
- 5.2.3 The noise monitoring schedule is presented in *Appendix G* and the monitoring results are summarized in the following sub-sections.

5.3 NOISE MONITORING RESULTS IN REPORTING MONTH

5.3.1 In the Reporting Period, a total of **34** 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*.

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

Construction Noise Level (L _{eq30min}), dB(A)								
Date	NMS2	NMS3	NMS4a	NMS5	NMS6	NMS7		
5-Jan-22	61	63	70	69	69	69		
11-Jan-22	61	66	69	69	66	68		
17-Jan-22	62	64	69	70	68	67		
28-Jan-22	61	61	70	69	69	68		
31-Jan-22	61	62	69	69	68	68		
Limit Level	70 dB(A) / 65 dB(A) ^{Note 1}			75 dB(A)				

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

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

Construction Noise Level (Leq30min), dB(A)						
Date	NMS8					
7-Jan-22	66					
14-Jan-22	61					
19-Jan-22	61					
25-Jan-22	61					
Limit Level	75 dB(A)					

5.3.2 For the additional noise monitoring under Contract 3, a total of **12** 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 5-2
 Summary of Construction Noise Monitoring Results for Contract 3

Construction Noise Level (Leq30min), dB(A)							
Date	CN1	CN2	CN3				
7-Jan-22	63	68	65				
14-Jan-22	63	58	59				
19-Jan-22	67	67	61				
25-Jan-22	67	67	61				



Construction Noise Level (Leq30min), dB(A)							
Date	CN1	CN2	CN3				
Limit Level	70 dB(A) / 65 dB(A) ^{Note 1}	70 dB(A) ^{Note 1} / 65 dB(A) ^{Note 1}	75 dB(A)				

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

5.3.3 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

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

6.3 **RECORDS OF WASTE QUANTITIES**

- 6.3.1 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.
- 6.3.2 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 1	Cont	Contract 2		Contract 3		ract 4	Contract 5	
Waste	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location	Quantity	Disposal Location
Total generated Inert C&D Materials ('000m ³) (#)	2.871	-	0.02	-	2.028	-	25.019	-	0.18	-
Hard Rock and Large Broken Concrete ('000m ³)	0	-	0	-	0	-	11.495	-	0	-
Reused in this Contract (Inert) ('000m ³)	2.517	-	0	-	0.882	-	0	-	0	-
Reused in other Projects (Inert) ('000m ³)	0	*	0	-	0	-	0	-	0	-
Disposal as Public Fill (Inert) ('000m ³)	0.354	TKO 137	0.02	TKO 137	1.146	TKO 137	13.524	-	0.18	-

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.



True o of	Contract 1		Contract 2		Contract 3		Contract 4		Contract 5	
Type of Waste	Quantity	Disposal Location								
Recycled										
Metal	0	-	0	-	0.003	-	0	-	0	-
('000kg)										
Recycled										
Paper /								-		
Cardboard	0	-	0	-	0	-	0		0	-
Packing										
('000kg)										
Recycled						Licensed				
Plastic	0.015	-	0	-	0.003	collector	0	-	0	-
('000kg)						concetor				
Chemical										
Wastes	0	-	0	-	0	-	0	-	0	-
('000kg)										
General										
Refuses	0.082	SENT	0.05	SENT	0.052	SENT	0.019	SENT	0.02	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 1

7.2.1 In the Reporting Period, joint site inspections for Contract 1 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 6, 11, 18, 25 and 31 January 2022 in which IEC joined the site inspection with SSEMC on 6 January 2022. No non-compliance was noted. The findings / deficiencies of *Contract 1* that observed during the weekly site inspection are listed in *Table 7-1*.

Date	Findings / Deficiencies	Follow-Up Status			
6 January 2022	 No adverse environmental issue was observed during site inspection Dust mitigation measures should be provided for the exposed area and haul road during dry season to reduce dust impact. (General) 	NAReminder only			
11 January 2022	 No adverse environmental issue was observed during site inspection The Contractor was reminded to spray water on site regularly. 	NAReminder only			
18 January 2022	• The Contractor was advised to put chemical container inside drip tray at Cavern	• Chemical containers were removed from site area.			
25 January 2022	• Accumulation of waste was observed at entrance of site office. The Contractor was advised to dispose it regularly.	Accumulation of waste was disposed			
31 January 2022	• Free standing chemical containers were observed at reservoir. The Contractor was advised to put it inside drip tray or remove it.	Chemical containers were removed on site.			
	 Empty chemical container was observed at Cavern. The Contractor was advised to dispose it properly 	• Empty chemical container was removed.			

 Table 7-1
 Site Observations of Contract 1

Contract 2

7.2.2 In the Reporting Period, joint site inspections for Contract 2 to evaluate site environmental performance were carried out by the RE, ET and the Contractor on 5, 12, 19 and 26 January 2022 in which IEC joined the site inspection with SSEMC on 26 January 2022. No non-compliance was noted. The findings / deficiencies of *Contract 2* that observed during the weekly site inspection are listed in *Table 7-2*.

Table 7-2Site Observations of Contract 2

Date		Findings / Deficiencies	Follow-Up Status		
5	January	No adverse environmental issue was	• NA		
2022		observed.The Contractor was reminded to enhance housekeeping at PC6	• Reminder only		
12	January	• No adverse environmental issue was	• NA		



Monthly Environmental Monitoring & Audit Report (January 2022)

Date	Findings / Deficiencies	Follow-Up Status
2022	 observed. The Contractor was reminded to put chemical container inside drip tray. The Contractor was reminded to dispose general refuse and construction waste regularly at PC1 	 Reminder only Reminder only
19 January 2022	 No adverse environmental issue was observed. The Contractor was reminded to maintain good housekeeping. 	NAReminder only
26 January 2022	 The Contractor was advised to dispose empty cement bags at portion 2 and E3. Free standing chemical container was observed at Portion 2. The Contractor was advised to put it inside drip tray. The Contractor was reminded to maintain good housekeeping. 	 Empty cement bags have been removed from site area. Chemical container has been removed. Reminder only

Contract 3

7.2.3 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 7, 14, 18 and 28 January 2022 in which IEC joined the site inspection with SSEMC on 18 January 2022. No non-compliance was noted. The findings / deficiencies of *Contract 3* that observed during the weekly site inspection are listed in Table 7-3

Table 7-3 **Site Observations of Contract 3**

Date		Findings / Deficiencies	Follow-Up Status		
7	January	• No adverse environmental issue was	• NA		
2022		observed.			
14	January	• The Contractor was advised to dispose the	The Construction		
2022		construction waste regularly.	waste was removed.		
		• The Contractor was reminded to maintain	Reminder only		
		good housekeeping.			
18	January	• No adverse environmental issue was	• NA		
2022		observed.			
		• The Contractor was reminded to maintain	Reminder only		
		good housekeeping at System B.	-		
28	January	• The Contractor was advised to cover the	• The cement bags		
2022	-	cement bags at System A.	were covered on		
			site.		

Contract 4

7.2.4 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 5, 12, 19 and 26 January 2022 in which IEC joined the site inspection with SSEMC on 19 January 2022. 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 7-4 **Site Observations of Contract 4**

Date		Fiı	ndings / Deficiencies	Fo	ollow-Up Status
5	January	•	Non-road machine without NRMM label was	٠	NRMM label has
2022			observed at Portion 8. The Contractor was	L	been provided.



Monthly Environmental Monitoring & Audit Report (January 2022)

Date	Fi	ndings / Deficiencies	Follow-Up Status
	•	advised to provide NRMM label. The Contractor was reminded to provide dust mitigation measures at Portion 8.	• Reminder only
	uary •	No adverse environmental issue was observed	• NA
2022	•	during site inspection. The Contractor was reminded to maintain good housekeeping.	• Reminder only
19 Janu 2022	uary •	No adverse environmental issue was observed.	• NA
	•	The Contractor was reminded to implement dust mitigation measures at Portion 8	• Reminder only
26 Janu 2022	uary •	No adverse environmental issue was observed.	• NA
	•	The Contractor was reminded to spray water regularly at exposed work area	• Reminder only

Contract 5

In the Reporting Period, joint site inspections for Contract 5 to evaluate site environmental 7.2.5 performance were carried out by the RE, ET and the Contractor on 6, 13, 20 and 28 January 2022 in which IEC joined the site inspection with SSEMC on 28 January 2022. No non-compliance was noted. The findings / deficiencies of *Contract 5* that observed during the weekly site inspection are listed in *Table 7-5*

Table 7-5 Site Observations of Contract 5

Table 7-5		Site Observations of Contract 5		
Date		Findings / Deficiencies	Follow-Up Status	
6 2022	January	 No adverse environmental issue was observed during site inspection. The Contractor was reminded to provide drip tray or removed the chemical containers at E6. 	NAReminder only	
13 2022	January	• Hole was observed at drip tray under generator (E6). The Contractor was advised plug the hole and removes the stagnant water regularly.	• The stagnant water under generator at drip tray was removed	
20 2022	January	 No adverse environmental issue was observed. The Contractor was reminded to maintain good housekeeping on site. 	NAReminder only	
28 2022	January	 The Contractor was advised to put chemical container inside drip tray or remove it at E6. The Contractor was reminded to pump away stagnant water produced from drilling regularly at E6. The Contractor was reminded to clean oil stain on the ground at E5. 	 Drip tray is provided for chemical container at E6. Reminder only Reminder only 	



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 for the project. Besides, no summons and prosecution under the EM&A Programme was lodged for the project. Investigation for the complaint was undertaken and presented in following sections.
- 8.1.2 The complaint log and Investigation Reports issued in the Reporting Period are 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*.

Den entire Dente d	Contract	Environmental Complaint Statistics		
Reporting Period	no.	Frequency	Cumulative	Complaint Nature
1 Apr 2017 – 31 Dec 2021	1	0	52	Dust, Noise and light nuisance
21 Mar 2017 – 31 Dec 2021	2	0	10	Noise
31 May 2018 – 31 Dec 2021	3	0	8	Waste Management, Noise, Water Quality
27 Sep 2021- 31 Dec 2021	4	0	0	NA
30 Mar 2021 – 31 Dec 2021	5	0	0	NA
	1	0	52	NA
	2	0	10	NA
1 – 31 January 2022	3	0	8	NA
	4	0	0	NA
	5	0	0	NA

Table 8-1Statistical Summary of Environmental Complaints

Table 8-2	Statistical Summary of Environmental Summons
-----------	--

Departing Devied	Contract	Environmental Summons Statistics		
Reporting Period	no.	Frequency	Cumulative	Summons Nature
1 Apr 2017 – 31 Dec 2021	1	0	0	NA
21 Mar 2017 – 31 Dec 2021	2	0	0	NA
31 May 2018 – 31 Dec 2021	3	0	0	NA
27 Sep 2021- 31 Dec 2021	4	0	0	NA
30 Mar 2021 – 31 Dec 2021	5	0	0	NA
	1	0	0	NA
	2	0	0	NA
1 – 31 January 2022	3	0	0	NA
	4	0	0	NA
	5	0	0	NA

Depending Devied	Contract	Environmental Prosecution Statistics		
Reporting Period	no.	Frequency	Cumulative	Prosecution Nature
1 Apr 2017 – 31 Dec 2021	1	0	0	NA
21 Mar 2017 – 31 Dec 2021	2	0	0	NA
31 May 2018 – 31 Dec 2021	3	0	0	NA
27 Sep 2021- 31 Dec 2021	4	0	0	NA

CEDD Contract No. NTE/07/2016 Environmental Team for Development of Anderson Road Quarry Site - Site Formation and Associated Infrastructure Works Monthly Environmental Monitoring & Audit Report (January 2022)



Departing Devied	Contract	Environmental Prosecution Statistics		
Reporting Period	no.	Frequency	Cumulative	Prosecution Nature
30 Mar 2021 – 31 Dec 2021	5	0	0	NA
	1	0	0	NA
	2	0	0	NA
1 – 31 January 2022	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 9-1	Environmental wingation 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

9.2.1 Construction activities for Contract 1 in the coming month are listed below:

Temporary Traffic Arrangement (TTA) at On Sau Road:

• Implementation of TTA at the junction between On Sau Road and Road L4 for road improvement works to continue.

Pedestrian Connectivity System B:

Bamboo Scaffold Erection for external ABWF works

Box Culvert BC1 at Internal Road L1:

- Defect rectification work to continue
- Slurry removal to continue
- Cat ladder installation complete
- Material of Multi-part cover will arrive in early December 2021.

Construction of Internal Road L1:

- Excavation and laying of watermain to continue.
- Road work, footpath and cycle track at L1 east to continue.



• Gullies and upper drainage construction for road L1 west to continue.

Water Reservoir:

- To continue construct valve chamber.
- To continue the construction works of WSD Access.
- To continue the laying and construct the additional dia.600 pipe and manhole.

Artificial Flood Attenuation Lake:

- To continue the drainage works (the remaining part: near S114).
- To continue laying 10mm aggregate (400mm thk).

Slope Stabilization at Portion B5:

- Continue to erect inspection scaffolds from 2nd to 5th berm.
- Continue to carry out stabilization works at Feature No. 11NE-D/C948 & 11NE-B/C902
- Perform rocking mapping and stabilization measure at 11NE-B/C900
- Perform scaffolding alternation to suit stabilization work required at 11NE-B/C1013 & 1014

Site Formation Work at Portion B13:

- Land Parcel R2-4 & R2-6 Excavation to formation level in progress.
- UC construction at Land Parcel R2-4 & R2-6 in progress.

Cavern (Portion B5):

- Rock fall fence installation complete.
- Rock breaking of existing slope at Ch200-248 on level +196 202mPD to continue.
- Rock dowel construction to continue.
- Drilling of Portal to continue.
- Planter wall construction to continue.
- UC construction at CH248 +198.5mPD berm in progress.
- Construction of Inspection scaffold on temporary triangle bracket in progress.

MEP Works:

- Submission of designs and materials related to MEP works in progress.
- E&M installation works at PTT in progress to continue.
- E&M installation works at Pump Hall of Fresh Water Pumping Station in progress.
- E&M installation works at Pedestrian Connectivity System B in progress.
- E&M installation works at Underground Stormwater Retention Tank in progress.
- E&M installation works at Underpass in progress
- Commencement of E&M installation works at Pillar Box (Underground Stormwater Retention Tank).

Road Improvement Works at Po Lam Road:

- Construction of permanent footpath and surface drainage system complete
- Excavation works to facilitate installation of the E&M/ACT/Earth pit and construction of permanent footpath and surface drainage system complete
- Construct concrete carriageway and footpath completed
- Install beam barrier complete
- Construct Island in progress
- Implement stage 3 TTA

Internal Road L4, Pedestrian Connectivity System A, Noise Barrier, RWA12 and RWA18:

- Backfilling G200 rock at RWA12 to continue
- Drainage, sewerage construction in progress
- UU installation in progress
- Watermain laying to be commenced



PTT

• Lighting system and PMMA panel installation to continue, concrete pavement construction, kerb laying and noise barrier works would continue.

Retaining Wall RWA9 at Road L3

- Backfilling and SRT of RWA9 Bays 1- Bay10 complete.
- Lower level drainage in progress.
- Watermain laying in progress.
- UU laying complete.
- Ducting installation works for street lighting to commence.

Hiking Trail (Portion B5):

• Perform material submission due to revised detail of hiking trail.

Existing Anderson Road

- Pipe trough construction to continue.
- 9.2.2 Construction activities for Contract 2 in the coming month are listed below:
 - Temporary Traffic Arrangement (TTA)
 - Soil Nail Construction
 - Mass Concrete construction
 - Formwork and Falsework installation and dismantling
 - Lifting Tower Construction
 - Rebar fixing
- 9.2.3 Construction activities for Contract 3 in the coming month are listed below:

Works in Road Improvement Works 1 (RIW1)

- Construct RC works & backfilling at Type 2 are in-progress.
- Construct socketed H pile at RWC2 Type 3 for piling construction are in-progress; Rock excavation at RWC2 Type 3 are in-progress.
- Preparation works of drainage diversion at Type 4 is in-progress.
- Backfilling works at Type 6 to 8 is in-progress.
- Mini-pile works at FE1-PC1b is in-progress.
- Excavate trial pit works at CT5 is in-progress.
- Drainage works at KS27 (West Side) also is in-progress; Install sheet pile & ELS works at KS27 (East Side) near Shun Lee Estate.

Works in Road Improvement Works 2 (RIW2)

- Construct RC works at RWC3b; Rock excavation & ELS works at RWC3b are in-progress.
- Install pipe pile wall at CT4 roadside is in-progress.
- Construct mini-pile works at SE2 (hill side toward Sai Keung direction) is in-progress; Excavate for expose utilities and utilities protection / diversion are in-progress.

Works in Road Improvement Works 3 (RIW3)

- Excavate trial pits at Sau Mui Ping Road / Lin Tak Road for watermain alignment confirmation in-progress.
- Concreting and backfilling works at RWD1 Bay 1 10.
- ELS works at RWD1 Bay 11 14 is in-progress.
- Rock excavate at Slope D1 lower portion is in-progress.
- Road works and backfilling works at Slope D2 are in-progress.
- Rock excavation using drill & split method, drainage works and road works at Slope D3 / Lin Tak Road are in-progress.

Pedestrian Connectivity Facility E8 (PC-E8)



• Touch-up outstanding works are in progress.

Pedestrian Connectivity Facility E11 (PC-E11)

- ABWF works and E&M works at LT2 & ST2 are in-progress.
- ABWF works and E&M works at LT1 & ST1 are in-progress.
- ABWF work and E&M works inside the footbridge steel frame are in-progress.

Pedestrian Connectivity Facilities Systems A (PC-SYA)

- ABWF works and E&M works at LT1, LT2 & ST1 are in-progress.
- Erect steel works inside RC structure is in-progress.

Pedestrian Connectivity Facilities Systems B (PC-SYB)

- RC works at SyB-LT1 & ST1 is in-progress.
- Construct pile cap at PC4 & PC6 are in-progress.
- Install sheet-pile and excavation works at PC1 are in-progress.

Tseung Kwan O Bus-Bus Interchange New Public Toilet (BBI-Toilet)

- The completed toilet was handed over to Food and Environmental Hygiene Department on 30 September 2020; Additional works under an instruction is in-progress.
- 9.2.4 Construction activities for Contract 4 in the coming month are listed below:
 - Completion of CRE Office & Chainlink Fence
 - Construction of access road leading to CRE's office (Depends on CWSTVJV)
 - GI works at G-2, Portion 3
 - Modification of RWA10 Footing
 - Site Drainage work at Portion 2a, 8 and 12
 - Hard Landscaping at Portion 2b
 - Construction of Staircase, U-channel repairing work, Railing Installation at Portion 1 0
 - Erection of Project Signboard at +175mPD
- 9.2.5 Construction activities for Contract 5 in the coming month are listed below:

Portion 1

- Tube Channel for Soil Transport
- Forming PC2 Piling Platform
- Reinstatement of E5-BH1(P)
- Portion 2
- Piling Work

Portion 3

• Diversion of existing staircase

- Portion 4
- Excavation of E10-F3
- Excavation of E10-F1

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 dry season, the Contractor should fully implement air quality mitigation measures to reduce construction dust emission as far as practicable. Furthermore, since construction site is highly visible to the resident at nearby estates, noise mitigation measures such as using of quiet plants should be implemented in accordance with the EM&A requirement
- 9.3.3 The Contractor 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 **58th** monthly EM&A report presenting the monitoring results and inspection findings for the Reporting Period from **1** to **31 January 2022**.
- 10.1.2 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.
- 10.1.3 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.
- 10.1.4 In the Reporting Period, no environmental complaint was received from the Project.
- 10.1.5 No notification of summons or successful prosecution was received under the Project.
- 10.1.6 During the Reporting Period, weekly joint site inspection by the RE, ET with the relevant Main-contractor was carried out for Contracts 1, 2, 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

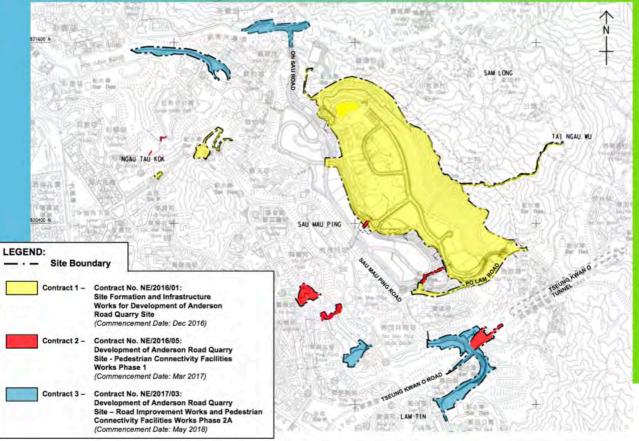
- 10.2.1 During dry season, the Contractors are reminded to fully implement air quality mitigation measures to reduce construction dust emission as far as practicable. Furthermore, since construction site is highly visible to the resident at nearby estates, noise mitigation measures such as using of quiet plants should be implemented in accordance with the EM&A requirement.
- 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

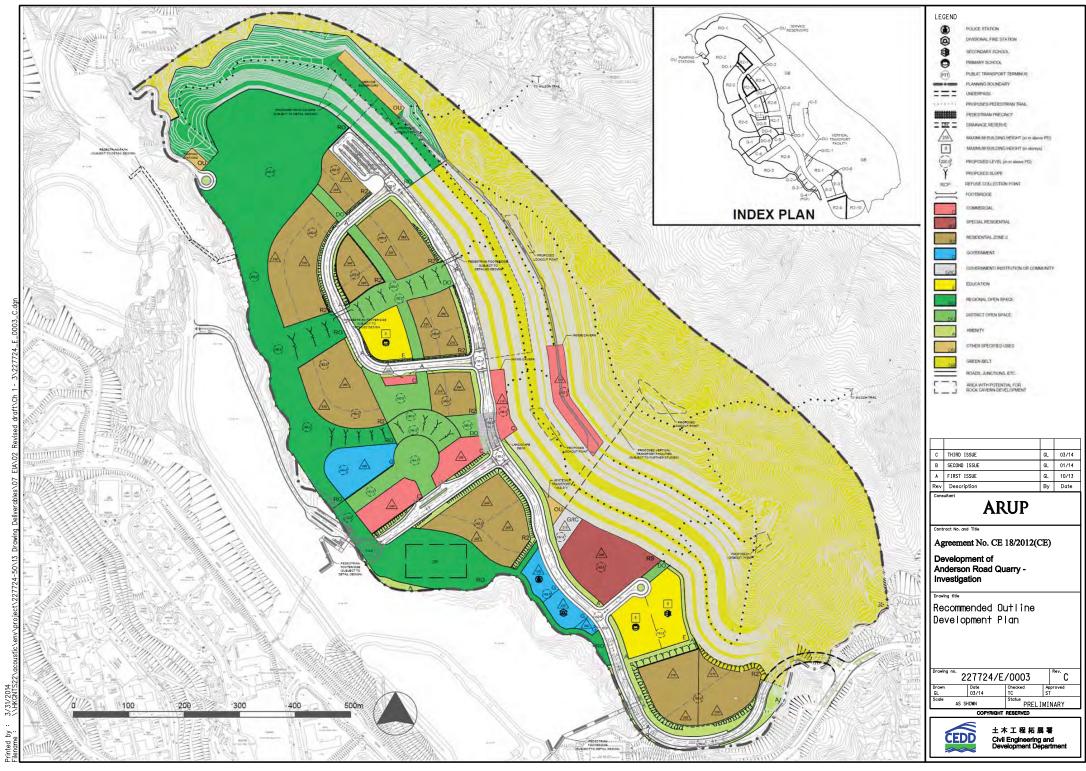
Contract Packages





Layout plan of Contract 1 (N/2016/01)

 $Z: \label{eq:loss} 2016 \ CEDD \ end{tabular} A Report \ Submission \ Monthly \ EM\&A \ Report \ 2022 \ January \ R0532 v1. dox \ R0532 v1. d$

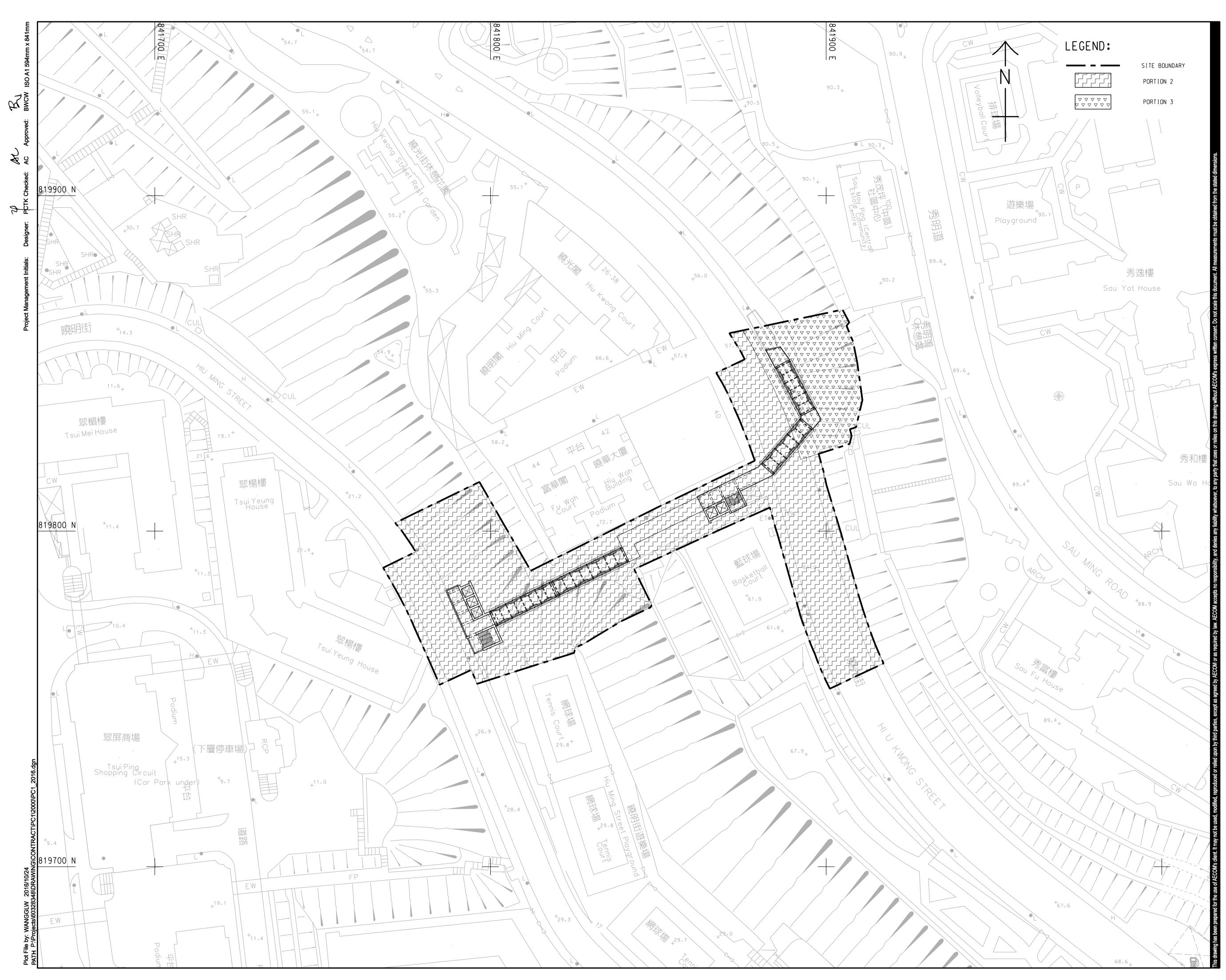


Printed by



Layout plan of Contract 2 (NE/2016/05)

 $Z: Jobs \\ 2016 \\ TCS00864 \\ (CEDD) \\ 600 \\ EM\&A \\ Report \\ Submission \\ Monthly \\ EM\&A \\ Report \\ 2022 \\ January \\ R0532 \\ v1.docx \\ R0532 \\ r05$





PROJECT _{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主



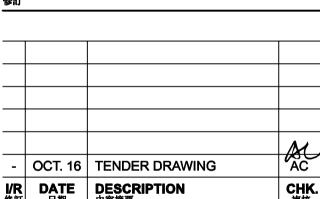
上木工程拓展署
 Civil Engineering and
 Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



			M
-	OCT. 16	TENDER DRAWING	AC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
	ATUO		

STATUS 階段

SCALE 比例

A1 1 : 500

KEY PLAN A1 1 : 60000 索引圖

NGAU TAU KOK

SHEET NUMBER 岡紙編號

CONTRACT NO. ^{合約編號}

TSUI LAM

DIMENSION UNIT ^{尺寸單位}

METRES

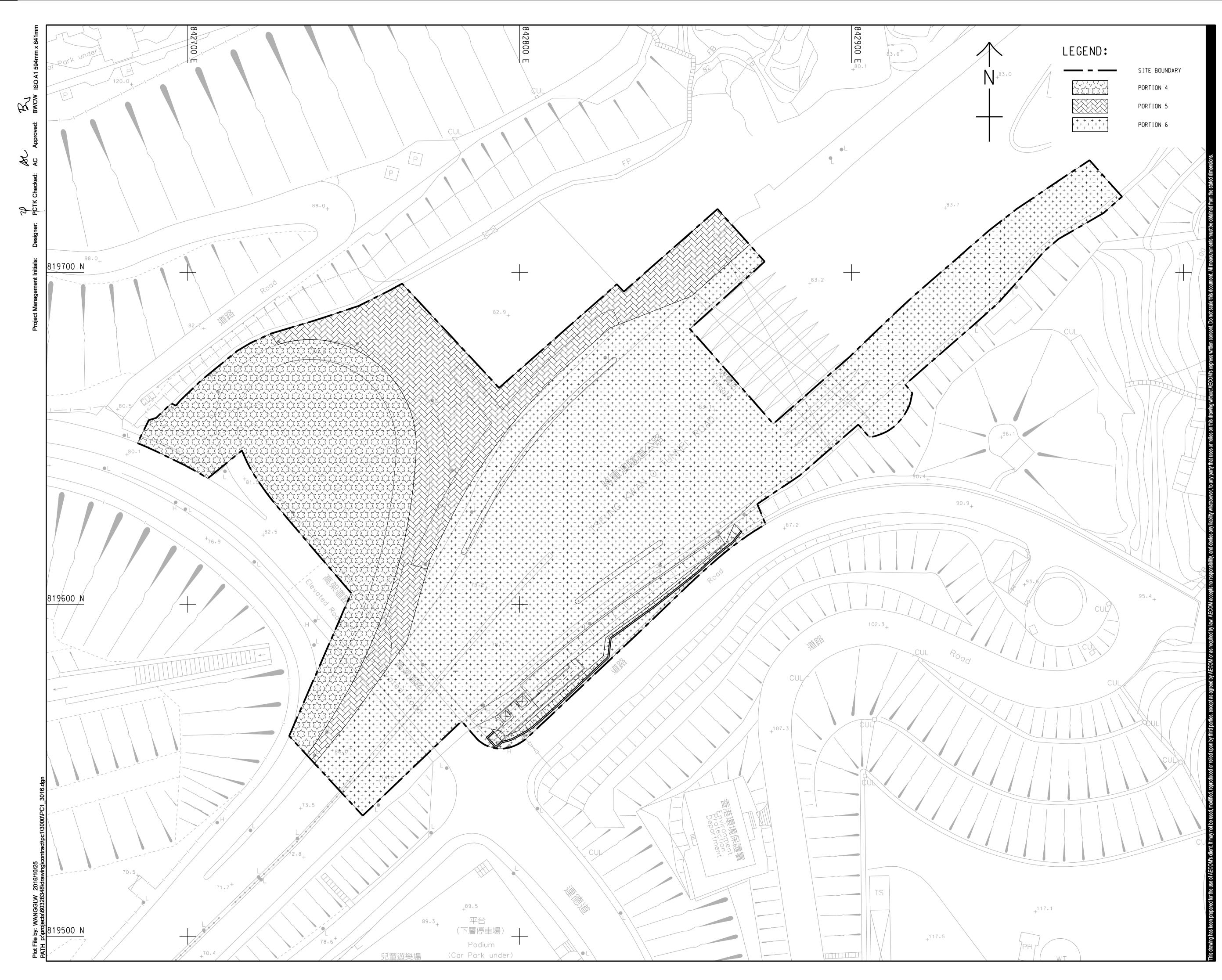
60328348

PROJECT NO. _{項目編}號

NE/2016/05 SHEET TITLE 圖紙名稱

E2-C1-E3 - PORTION OF SITE

60328348/PC1/2016





PROJECT _{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主

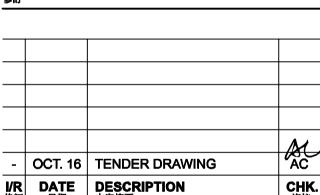


CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	OCT. 16	TENDER DRAWING	AC
			M

SCALE _{比例}

A1 1 : 500

NGAU TAU KOK

KWUN TONG

KEY PLAN A1 1 : 60000 索引圖

	00T 40		- Al
	OCT. 16		
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
	ATUO		I

			- K
-	OCT. 16	TENDER DRAWING	ĂC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
	ATUO		

-	OCT. 16	TENDER DRAWING	AC
/ / 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
et.	ATUS		I

STATUS ^{階段}

60328348/PC1/3016



DIMENSION UNIT 尺寸單位

METRES

60328348

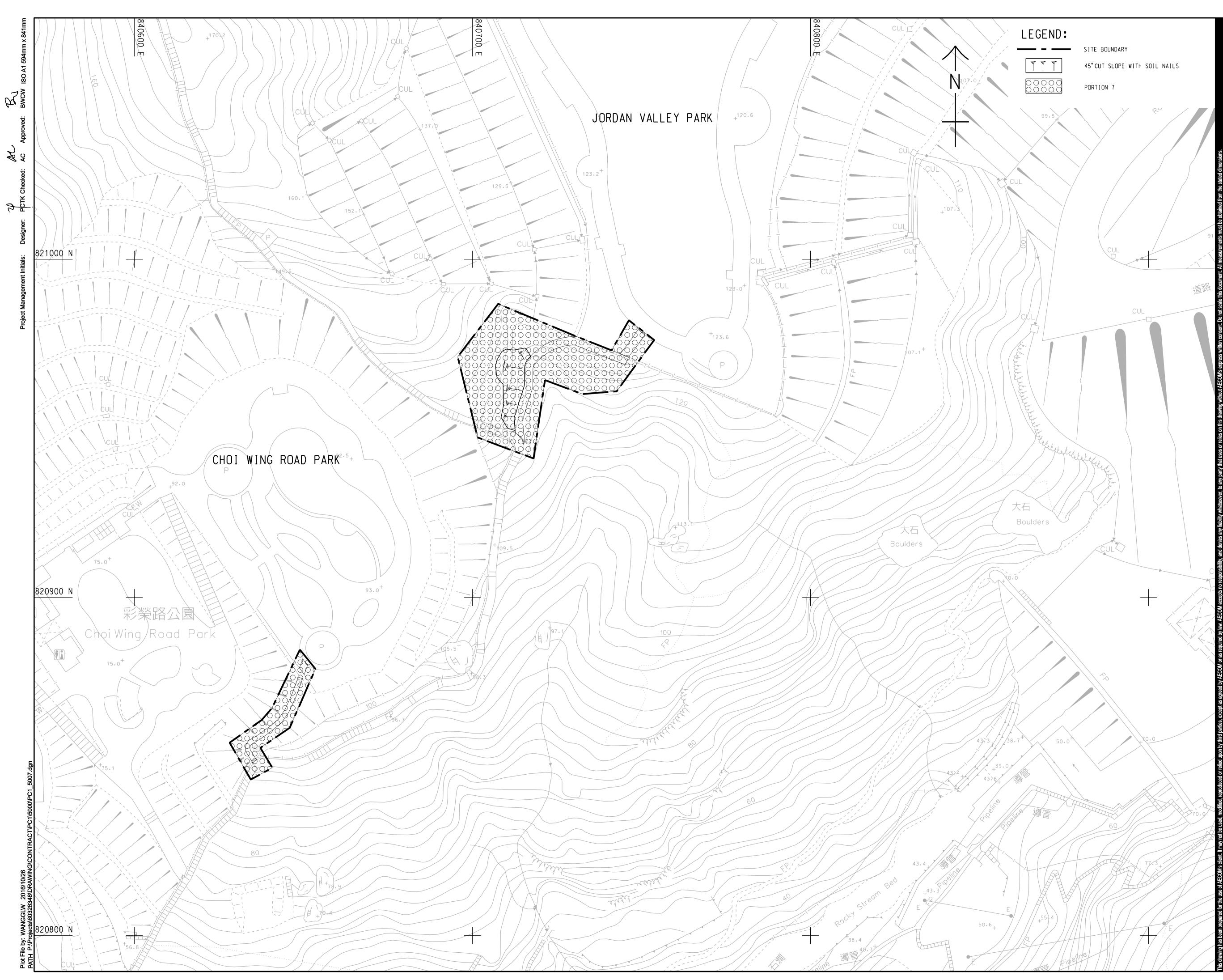
SHEET TITLE 圖紙名稱

PROJECT NO. 項目編號

NE/2016/05

E12 AND BBI - PORTION OF SITE

SHEET NUMBER ^{國紙編號}





PROJECT ^{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT 業主



上木工程拓展署
 Civil Engineering and
 Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

			M
-	OCT. 16	TENDER DRAWING	AC
I/R	DATE	DESCRIPTION	СНК

		•	
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	OCT. 16	TENDER DRAWING	AC
			M

			M
-	OCT. 16	TENDER DRAWING	ÂC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核

STATUS 階段

SCALE 比例

A1 1 : 500

NGAU CHT WAN

KOWLOON BAY

PROJECT NO. ^{項目編}號

SHEET TITLE 圖紙名稱

60328348

KEY PLAN A1 1 : 60000 家引圖

1

KWUN TONG

GREEN ROUTE - PORTION OF SITE

-	OCT. 16	TENDER DRAWING	AC
I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
La 49	170	name	1218

DIMENSION UNIT 尺寸單位

METRES

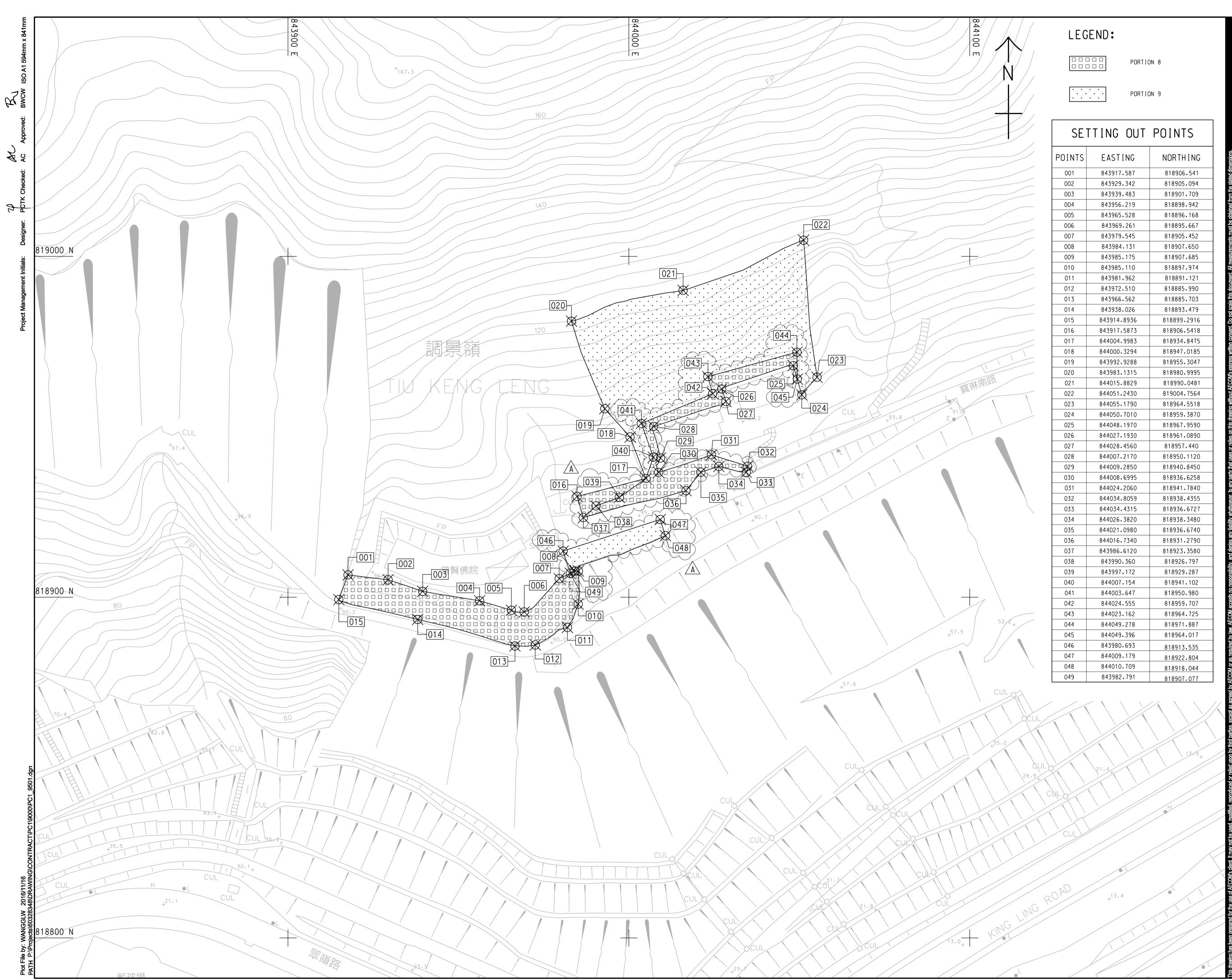
LAMTIN

CONTRACT NO. ^{合約編號}

NE/2016/05

•
AC
CHK. 複核

SHEET NUMBER 圖紙編號 60328348/PC1/5007





SE	ITING UUT	PUINIS
OINTS	EASTING	NORTHING
001	843917.587	818906.541
002	843929.342	818905.094
003	843939.483	818901.709
004	843956.219	818898.942
005	843965.528	818896.168
006	843969.261	818895.667
007	843979.545	818905.452
008	843984.131	818907.650
009	843985.175	818907.685
010	843985.110	818897.974
011	843981.962	818891.121
012	843972.510	818885.990
013	843966.562	818885.703
014	843938.026	818893.479
015	843914.8936	818899.2916
015		
	843917.5873	818906.5418
017	844004.9983	818934.8475
018	844000.3294	818947.0185
019	843992.9288	818955.3047
020	843983.1315	818980.9995
021	844015.8829	818990.0481
022	844051.2430	819004.7564
023	844055.1790	818964.5518
024	844050.7010	818959.3870
025	844048.1970	818967.9590
026	844027.1930	818961.0890
027	844028.4560	818957.440
028	844007.2170	818950.1120
029	844009.2850	818940.8450
030	844008.6995	818936.6258
031	844024.2060	818941.7840
032	844034.8059	818938.4355
033	844034.4315	818936.6727
034	844026.3820	818938.3480
035	844021.0980	818936.6740
036	844016.7340	818931.2790
037	843986.6120	818923.3580
038	843990.360	818926.797
039	843997.172	818929.287
040	844007.154	818941.102
041	844003.647	818950.980
042	844024.555	818959.707
043	844023.162	818964.725
044	844049.278	818971.887
045	844049.396	818964.017
046	843980.693	818913.535
047	844009.179	
048	844010.709	818922.804
049	843982.791	818918.044



PROJECT ^{項目}

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

CONTRACT TITLE PEDESTRIAN CONNECTIVITY FACILITIES WORKS PHASE 1

CLIENT _{業主}



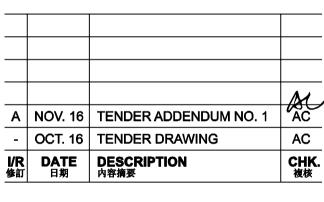
た木工程拓展署
 Civil Engineering and
 Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd. www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂



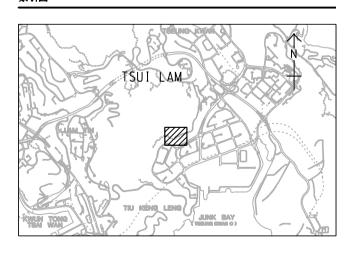
STATUS 階段

SCALE 比例



DIMENSION UNIT ^{尺寸單位} METRES

KEY PLAN A1 1 : 60000 家引國



PROJECT NO. _{項目編}號

CONTRACT NO. ^{合約編號}

60328348

NE/2016/05

SHEET TITLE 圖紙名稱

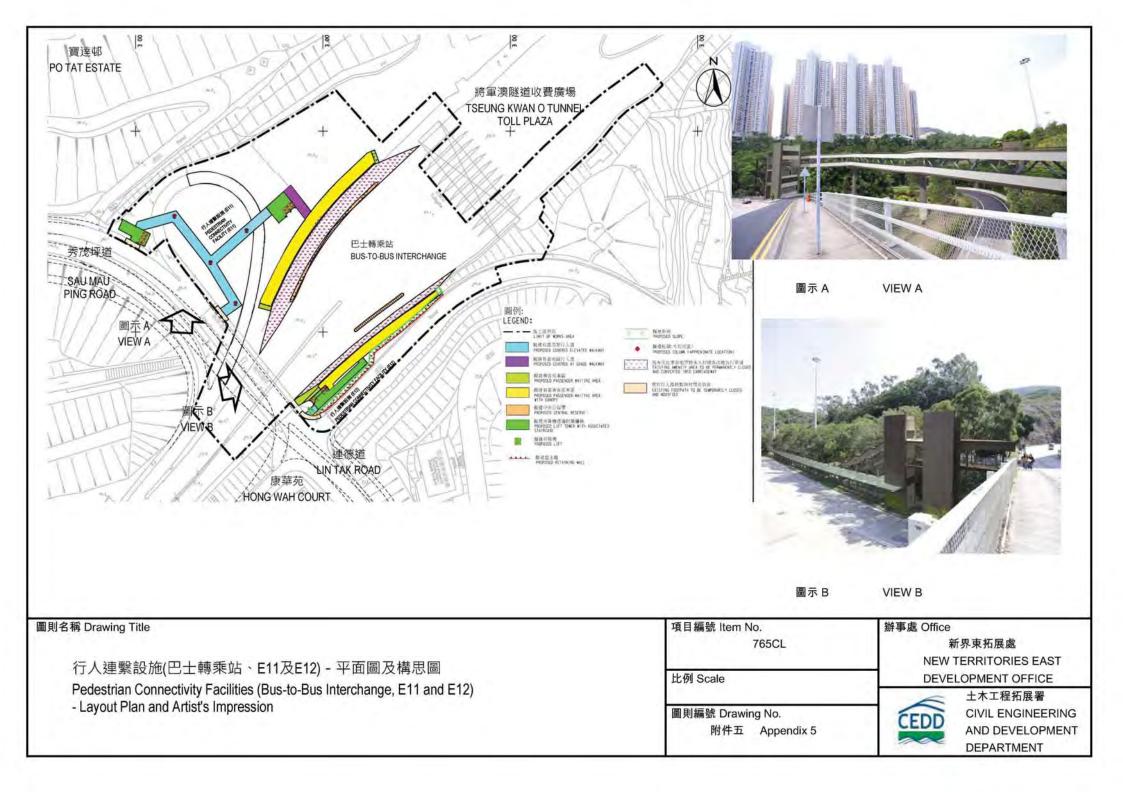
INFRASTRUCTURAL WORKS AT PO LAM ROAD SOUTH TIU KENG LENG – PORTION OF SITE

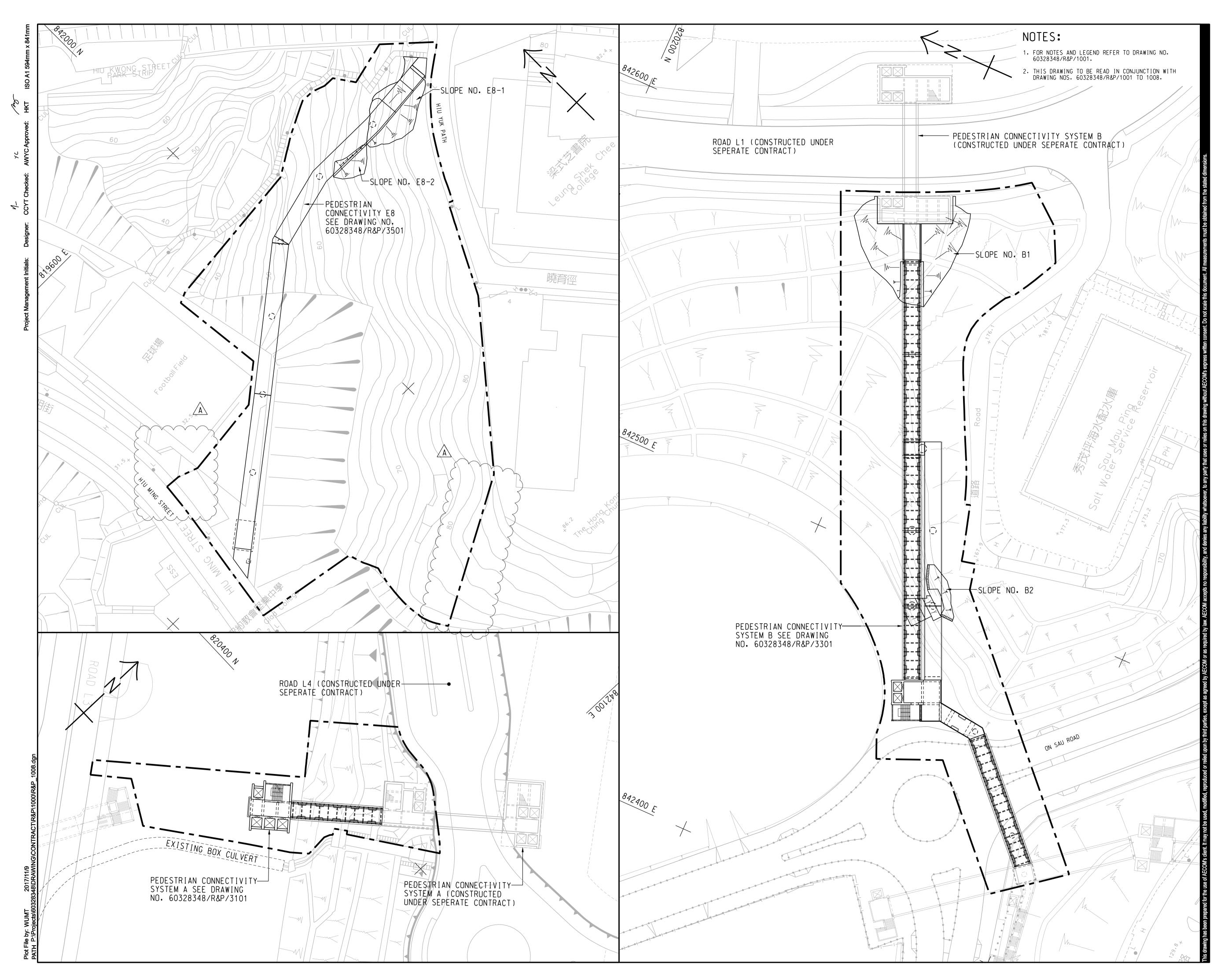
SHEET NUMBER 圖紙編號

60328348/PC1/9501A



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}



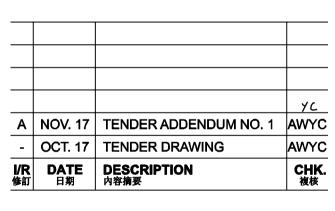
全林工程拓展署 Civil Engineering and Development Department

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}

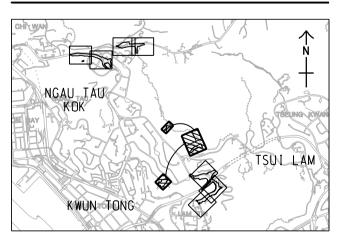
SCALE 比例

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

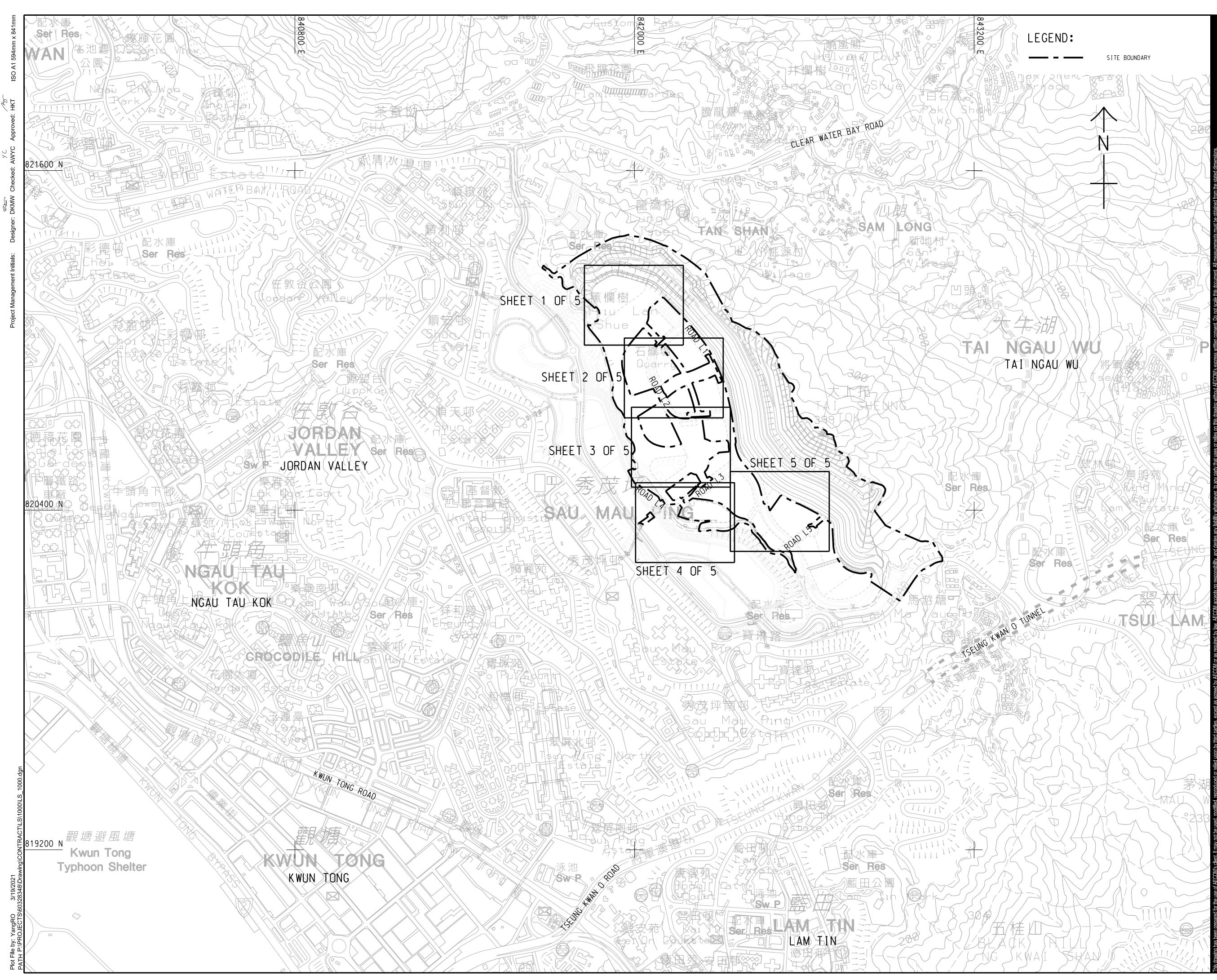
CONTRACT NO. ^{合約編}號

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

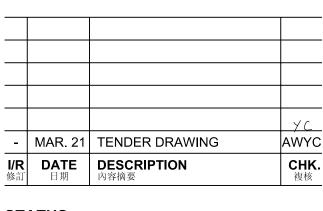
 Civil Engineering and Development Department

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	

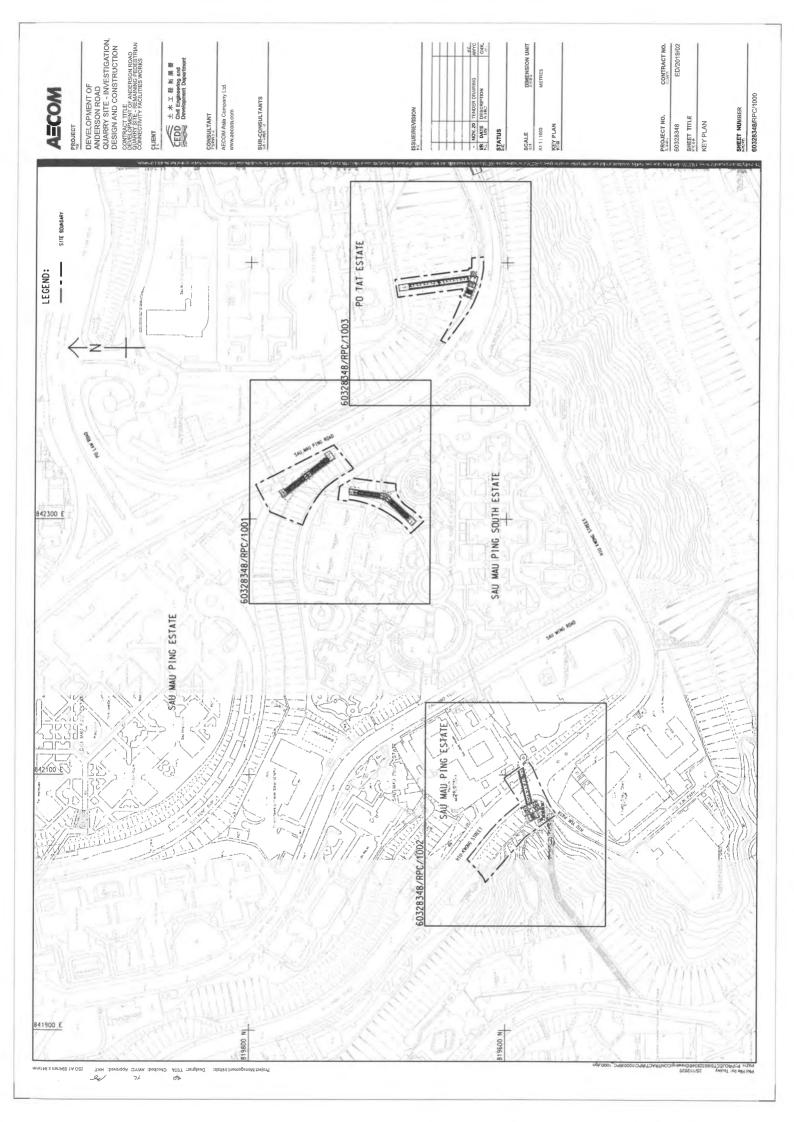
PROJECT NO. ^{項目編號} CONTRACT NO. _{合約編號} ED/2020/02 60328348 **SHEET TITLE** 圖紙名稱 KEY PLAN

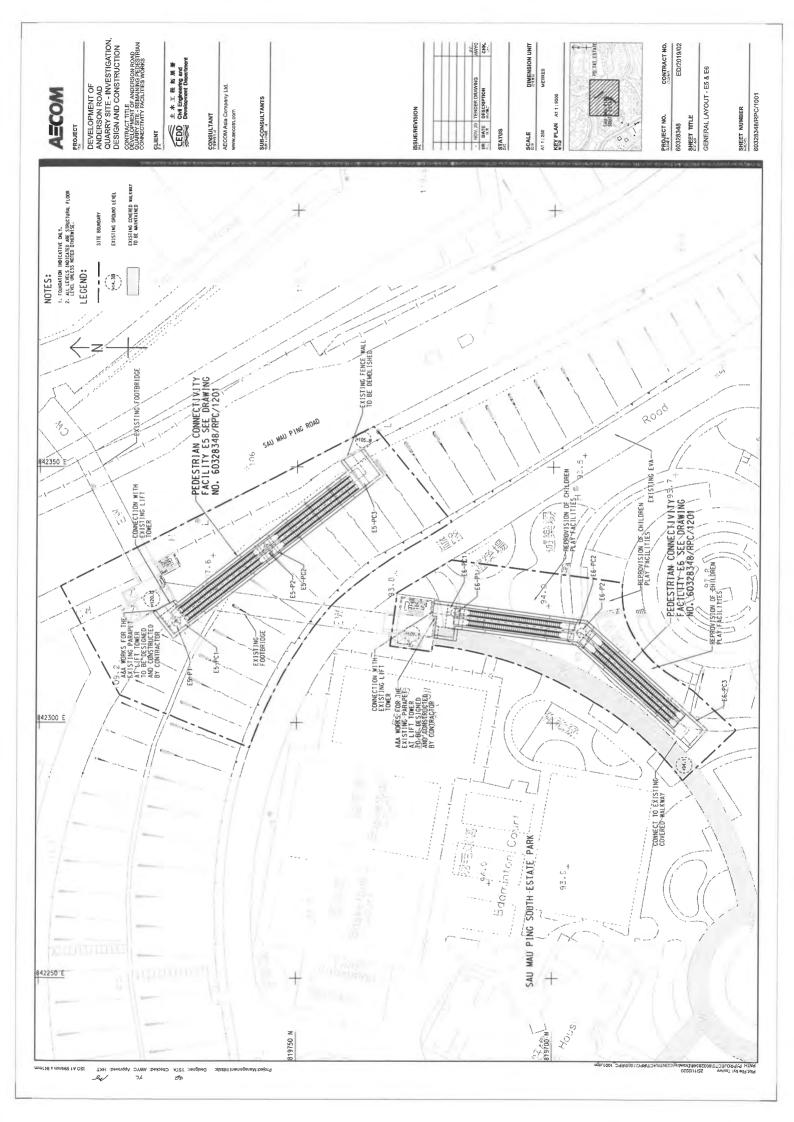
SHEET NUMBER 圖紙編號

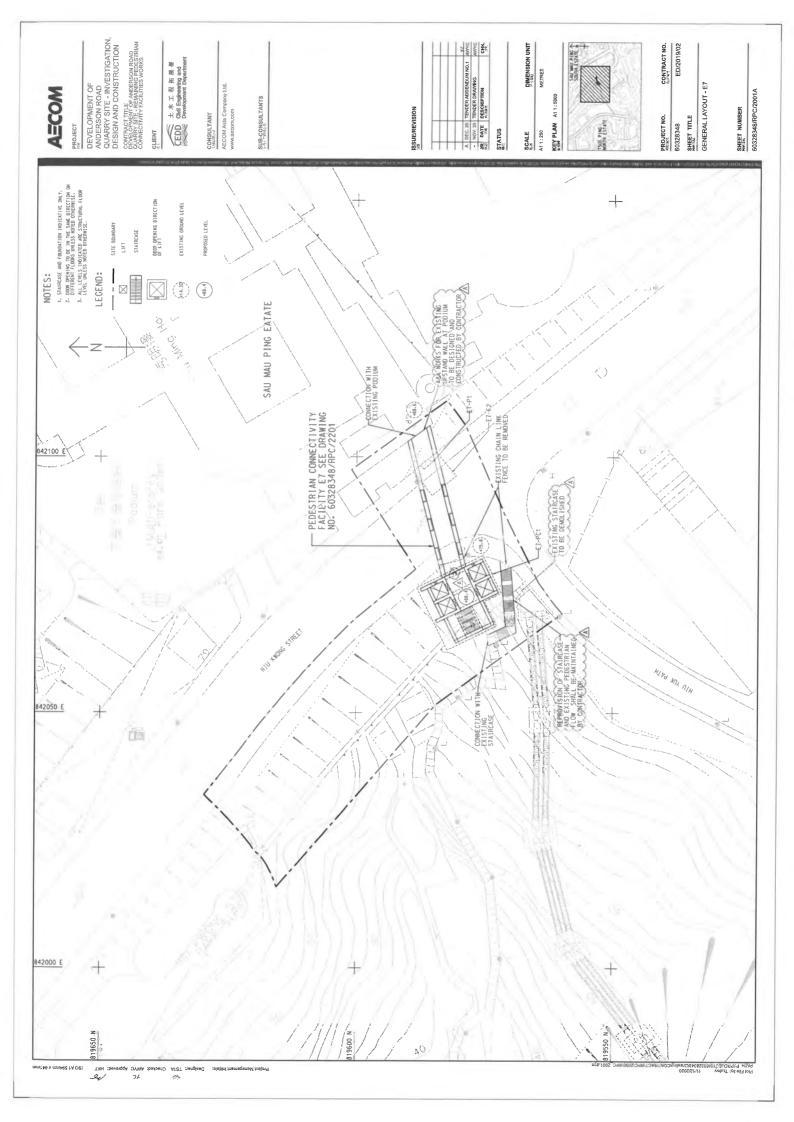
60328348/LS/1000

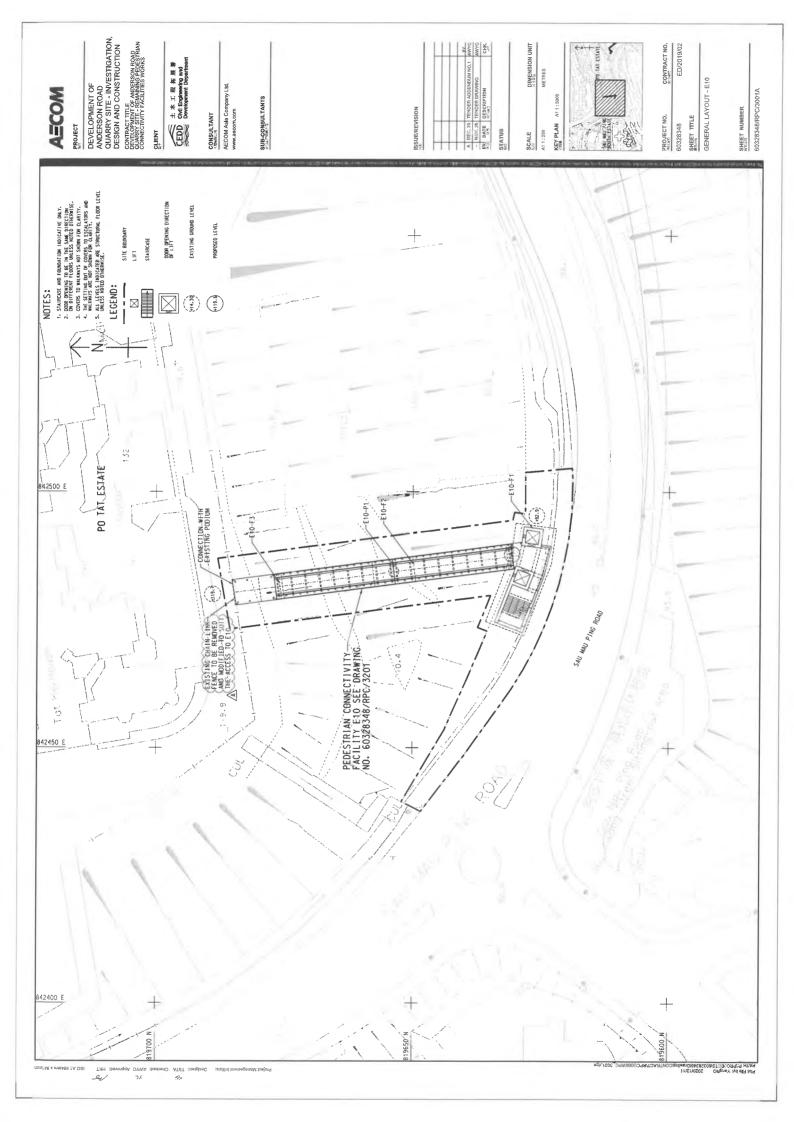


Layout plan of Contract 5 (ED/2019/02)









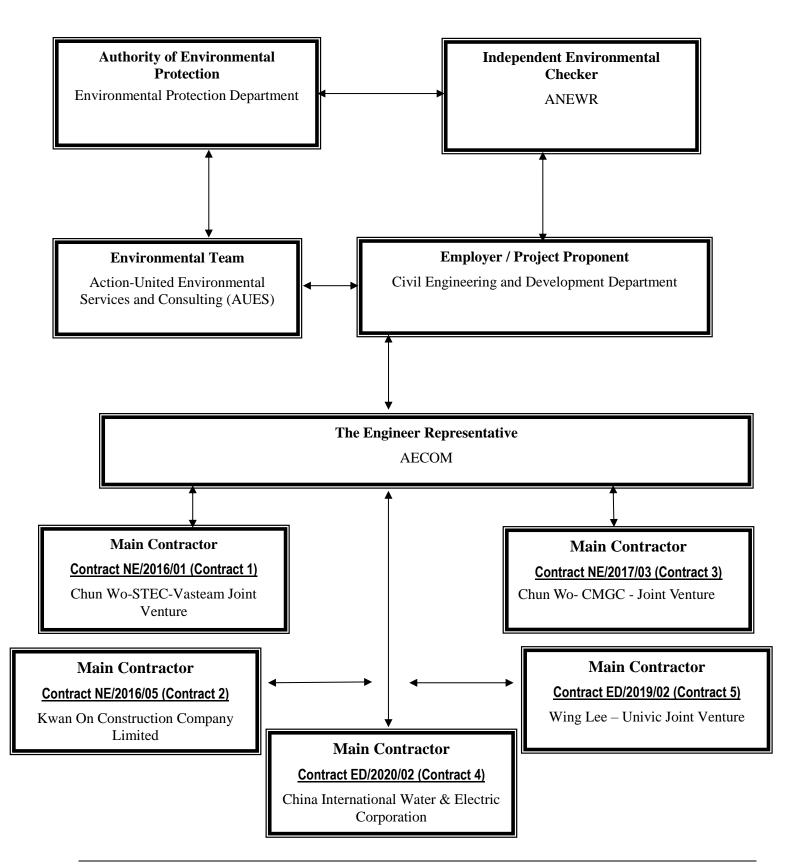


Appendix B

Project Organization Structure



Project Organization Structure



 $Z: \label{eq:loss} 2016 \ CEDD \ Bulker A Report \ Submission \ Monthly \ EM\&A \ Report \ 2022 \ January \ R0532v1. docx \ R0532v1. \ Submission \ R0532v1. \ R0532v1. \ Submission \ R0532v1. \ Submission\ R0532v1. \ Submission\ R0532v1. \ Submi$



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	S W Lam, Sam	3842 7087	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Li, Ling Tommy	9389 8792	2473 3221
ANEWR	Independent Environmental Checker	James Choi	2618 2836	3007 8648
CSVJV	Project Manager	William Leung	2638 7181	2744 6937
CSVJV	Site Agent	TY Leung	2638 7181	2744 6937
CSVJV	Project Environmental Manager	Jimmy Cheng	2638 7181	2744 6937
CSVJV	Environmental Officer	Ken Chu	2638 7181	2744 6937
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 1 – NE/2016/01

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

CSVJV (Main Contractor) – Chun Wo-STEC-Vasteam Joint Venture

ANEWR (IEC) – ANewR Consulting Limited



Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	S W Lam, Sam	3842 7087	2739 0076
AECOM	Chief Resident Engineer	Lee, Yu Ching Paul	5723 6880	2473 3221
AECOM	Senior Resident Engineer	Bill Hon	5599 1466	2473 3221
ANEWR	Independent Environmental Checker	James Choi	2618 2836	3007 8648
KOCCL	Project Director	Ambrose Kwong	2889 2675	2558 6900
KOCCL	Site Agent	Mr. Albert PK Ng	9150 1523	2558 6900
KOCCL	Safety and Environmental Manager	Joly C K Kwong	6111 5711	2558 6900
KOCCL	Environmental Officer	Ken Tam	9555 9958	2558 6900
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 2 – NE/2016/05

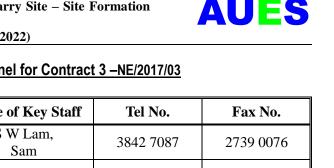
Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

KOCCL (Main Contractor) -Kwan On Construction Company Limited

ANEWR (IEC) – ANewR Consulting Limited



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

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Engineer	S W Lam, Sam	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	William Leung	9464 1392	3965 9900
CW – CMGC - JV	Site Agent	Yu, Chi Kuen Paul	9456 9819	3965 9900
CW – CMGC - JV	Environmental Officer	King Lam	9570 6187	3965 9900
CW – CMGC - JV	Environmental Supervisor	Anna Tsang	9333 8499	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

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



Contact Details of Key Personnel for Contract 4 -ED/2020/02

AUES

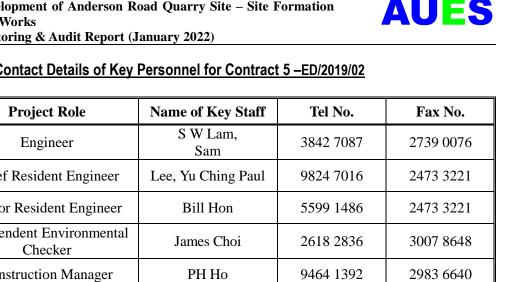
Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

CIWEC (Main Contractor) – China International Water & Electric Corporation

ANEWR (IEC) – ANewR Consulting Limited



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

CEDD AECOM **Chief Resident Engineer** AECOM Senior Resident Engineer Independent Environmental ANEWR **Construction Manager** WL-UJV WL-UJV Lee Chi Wai 9255 7014 2983 6640 Site Agent WL-UJV **Environmental Officer** Guo Liming 5723 9883 2983 6640 Environmental Team Leader T. W. Tam AUES 2959 6059 2959 6079 2959 6079 AUES **Environmental Consultant** Nicola Hon 2959 6059 AUES **Environmental Consultant** Ben Tam 2959 6059 2959 6079

Legend:

Organization

- 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 1 (NE/2016/01)
- (b) Contract 2 (NE/2016/05)
- (c) Contract 3 (NE/2017/03)
- (d) Contract 4 (ED/2020/02)
- (e) Contract 5 (ED/2019/02)



Contract 1 (NE/2016/01)



CONTRACT NO.NE/2016/01 SITE FORMATION AND INFRASTRUCTURE WORKS FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE 3-MONTH ROLLING PROGRAMME

	Chun Wo - STEC - VASTEAM JOINT VENTURE					3-N	MONTH	ROLLING PROGRAMME	
tivity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	At Completion Duration	Start	Finish	Dec	Qtr 1, 2022 Jan Feb
Anderson Rd S	Sub-programme (January 2022) _ccn _220117								
Fresh Water Pump	bing Station								
Stage 5 - ABWF, F	Finishing & E&M								
FWP-1320	Pumping Station E&M works	0			457	29-Jun-20 A	08-Jan-22 A		
Salt Water Reservo	bir								
ABWF, Finishing	& E&M								
SWR-1420	Saltwater Reservior E&M works	0			464	29-May-20 A	15-Dec-21 A	p	
Fresh Water Reserv	voir								
ABWF, Finishing	& E&M								
FWR-2000	Freshwater Reservior E&M works	0			406	12-Oct-20 A	23-Feb-22		Free Free
RWS Access Road	d & External Works								
FWP-1410	Watermain (DN600 & DN450) & Irrigation System along WSA access road	0			529	16-May-20 A	23-Feb-22		Wa
FWP-1420	Drainage (sewerage & surface) along WSA access road	0			467	30-Jul-20 A	23-Feb-22		Dra
FWP-1430	CLP power supply duct	0			426	16-Sep-20 A	23-Feb-22		
FWP-1440	Road Works & Fencing	0			120	24-Feb-22	21-Jul-22		
FWP-1450	Grteen Roof & Paving Area	0			100	17-Jan-22	21-May-22		
Pedestrian Connec	ction System A& B								
PC system B									
PCB-1090	System B - Backfill south tower	81	19-Aug-19	23-Nov-19	571	16-Feb-20 A	17-Jan-22		System B - Backfill south tower
PCB-1100	System B - Backfill north tower	81	19-Aug-19	23-Nov-19	571	16-Feb-20 A	17-Jan-22		System B - Backfill north tower
PCB-1120	System B - E&M	22	23-Sep-19	19-Oct-19	488	05-Jun-20 A	22-Jan-22		System B - E&M
PCB-1130	System B - E&M T&C	24	21-Oct-19	16-Nov-19	274	02-Mar-21 A	29-Jan-22		System B - E&M T&C
PCB-1140	System B - Lift installation	75	21-Oct-19	18-Jan-20	288	02-Mar-21 A	18-Feb-22		
PCB-1140	System B - Lift T&C	27	21-0ct-19 20-Jan-20	22-Feb-20	200	19-Feb-22	22-Mar-22		System B - Li
PCB-1150					18				
	System B - Submission of form 5 & EMSD instaction	18	24-Feb-20	14-Mar-20		23-Mar-22	13-Apr-22		
PCB-1170	System B - Issurance of Uer Permit	6	16-Mar-20	21-Mar-20	6	14-Apr-22	23-Apr-22		
PC system A									
PCA-1050	B5 - Back Fill Lift Tower (North) upwards Formation Level	0			160	02-Jul-21 A	11-Jan-22 A		
PCA-1060	B5 - E&M and BS Works	0			184	02-Jul-21 A	11-Feb-22		B5 - E&M and BS Works
PCA-1070	B5 - ABWF Works	0			131	20-Dec-21 A	02-Jun-22		
PCA-1160	C1a - Back Fill Lift Tower (South) up wards Formation Level	0			87	18-Oct-21 A	29-Jan-22		Cfa - Back Fill Lift Tower (South) upwards Formation Le
PCA-1170	C1a - E&M and BS Works	0			119	22-Nov-21 A	20-Apr-22		
PCA-1180	C1a - ABWF Works	0			116	03-Jan-22 A	26-May-22		
Artificial Flood Atte	enuation Lake								
Construction of la	ake bottom								
ART-1990	Art Lake - water testing for bottom of lake	45	28-Feb-20	24-Apr-20	292	02-Mar-21 A	23-Feb-22		Art
Construction of F	loating Bridge								
ART-2060	Art Lake Floating Brdige - footing construction	30	06-Dec-19	13-Jan-20	314	11-Jan-21 A	29-Jan-22		Art Lake Floating Brdige - footing construction
ART-2070	Art Lake Floating Brdige - installation bridge	30	14-Jan-20	20-Feb-20	54	31-Jan-22	07-Apr-22		t <u>i</u>
Slot Chamber									
ART-2080	Art Lake - Slot chamber no. 1 & stop log chamber	18	09-Dec-19	31-Dec-19	505	16-May-20 A	22-Jan-22		Art Lake - Slot chamber no. 1 & stop log chamber
ART-2090	Art Lake - Slot chamber no. 2 & stop log chamber	26	31-Jan-20	29-Feb-20	286	23-Feb-21 A	09-Feb-22		Art Lake - Slot chamber no. 2 &
ART-2100	Art Lake - Slot chamber no. 3	33	31-Jan-20	09-Mar-20	286	23-Feb-21 A	09-Feb-22		Art Lake - Slot chamber no. 3
Drainage									
ART-2110	Art Lake - Outside bay 38-45	63	04-Nov-19	18-Jan-20	570	02-Mar-20 A	29-Jan-22		Art Lake - Outside bay 38-45
				1				<u> </u>	;
	nned Bar (WP) 💠 🔷 Planned Milestone (WP)					0			Date Re
Plan						3-mon	τη κοιιι	ng Programme	15 Dec 21 C1 MDI (202112
Actu	al Bar ♦ Milestone			Anderso	on Rd Sub-			ng Programme	15-Dec-21 C1-MPU202112

	Pa	ge 1 of 3	
	Mar		Qtr 2, 2022 Apr
reshwat	er Reservior E&M works		
	ain (DN600 & DN450) & Irrigation System		i
	(sewerage & surface) along WSA acces	s road	
ЪР ром	er supply duct		
Lift insta	allation		
		System B - Lift T	кС
			s
_evel			
AT Lake	- water testing for bottom of lake		
			Art Lake Floa
& stop I	bg chamber		
Revisio	: n	Checked	Approved



CONTRACT NO.NE/2016/01 SITE FORMATION AND INFRASTRUCTURE WORKS FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE 3-MONTH ROLLING PROGRAMME

	Chun Wo - STEC - VASTEAM JOINT VENTURE					3- 1 v		ROLLING PROGRAMMI	
ivity ID	Activity Name	BL Project Duration	BL Project Start	BL Project Finish	At Completion Duration	Start	Finish		Qtr 1, 2022 Jan Feb
ART-2120	Art Lake - Outside bay 3-8	28	09-Dec-19	13-Jan-20	511	16-May-20 A	29-Jan-22		Art Lake - Outside bay 3-8
ART-2130	Art Lake - Outside bay 9-28	56	21-Nov-19	31-Jan-20	540	07-Apr-20 A	29-Jan-22		Art Lake - Outside bay 9-28
ART-2140	Art Lake - Outside bay 50-52	14	31-Jan-20	15-Feb-20	398	28-Sep-20 A	29-Jan-22		Art Lake - Outside bay 50-52
Treatment Plant									
ART-1620	Treatment plant - Construct the wall(W1,2,3,6,7,8,9,11,12,13,14)	14	10-Dec-19	27-Dec-19	483	11-Jun-20 A	22-Jan-22		Treatment plant Construct the wall(W1,2,3,6,7,8,9,11,12,13,14)
ART-1630	Treatment plant - Backfilling (by course material) to 197.1mPD, 8.2m Depth	30	28-Dec-19	05-Feb-20	330	11-Jan-21 A	21-Feb-22		Treatm
Bioretention Sy	stem								
ART-2150	Art Lake - Part 1,2,4	72	01-Feb-20	29-Apr-20	499	13-Jun-20 A	16-Feb-22		Art Lake - Part 1,
ART-2160	Art Lake - Part 3	32	14-Jan-20	22-Feb-20	455	06-Aug-20 A	16-Feb-22		Art Lake - Part 3
ART-2170	Art Lake - Part 6,7,12	16	17-Feb-20	05-Mar-20	453	08-Aug-20 A	16-Feb-22		Art Lake - Part 6,
Underpass Tunn	el								
VE Panels, Roa									
TUN-3540	Tunnel - FS main, Socket & AFA equipment	0			376	19-Oct-20 A	22-Jan-22		Tunnel - FS main, Socket & AFA equipment
TUN-3550	Underpass L1 paving, funiture, marking, signage from East Portal	0			376	19-Oct-20 A	22-Jan-22		Underpass L1 paving, funiture, marking, signage from East Portal
	Tunnel - E&M 2nd Fix (Lighting & Equipment)							_	Tunnel - E&M 2nd Fix (Lighting & Equipment)
TUN-3560		0			376	19-Oct-20 A	22-Jan-22		Underpass ABWF works
TUN-3570	Underpass ABWF works	0			359	09-Nov-20 A	22-Jan-22		
TUN-3580	Tunnel - E&M Final Fix (Equipment connection & testing)	0			359	09-Nov-20 A	22-Jan-22		Tunnel - E&M Final Fix (Equipment connection & testing)
TUN-3590	Tunnel - T&C & Statutory inspection	0			189	30-Jun-21 A	16-Feb-22		Tunnel - T&C & S
Road L4 (RWA18	, Noise Barrier, RWA12, Utilities & Road Works)								
Retaining Wall I	RWA12								
L4-3460	L4 (RWA12) - Bay 17-20 construct wall & backfill upto +175	0			183	23-Jun-21 A	29-Jan-22		L4 (RWA12) - Bay 17-20 construct wall & backfill upto
L4-3530	L4 (RWA12) - Bay 22 construct wall & backfill upto +170 (after twin 1950 pipe)	0			156	16-Aug-21 A	23-Feb-22		L4
L4-3540	L4 (RWA12) - Bay 22 construct wall & backfill upto +175	0			85	24-Feb-22	09-Jun-22	1	
L4-3630	L4 (RWA12) - Bay 21 construct wall & backfill upto +170 (after system A sub-way)	0			183	23-Jun-21 A	29-Jan-22		L4 (RWA12) - Bay 21 construct wall & backfil upto +17
L4-3640	L4 (RWA12) - Bay 21 construct wall & backfill upto +175	0			85	31-Jan-22	18-May-22		
Road Works - D	rainage								
L4-4260	L4 (Drainage) - Backfill for water main CH0 to CH200	0			268	02-Mar-21 A	22-Jan-22		L4 (Drainage) - Backfill for water main CH0 to CH200
L4-4280	L4 (Drainage) - Excavate & lay drain CH250 to CH300	0			274	02-Mar-21 A	29-Jan-22		L4 (Drainage) - Excavate & lay drain CH250 to CH300
L4-4300	L4 (Drainage) - Excavate & lay drain CH350 to CH400	0			274	02-Mar-21 A	29-Jan-22		L4 (Drainage) - Excavate & lay drain CH350 to CH400
L4-4310	L4 (Drainage) - Backfill for water main CH200 to CH400	0			69	29-Nov-21 A	23-Feb-22		L4
Watermain & Ut	lities								
L4-4320	L4 (Watermain & UU) - Constuct watermain & UU CH0 to CH200	0			109	15-Dec-21 A	03-May-22		
L4-4330	L4 (Watermain & UU) - Constuct watermain & UU CH200 to CH400	0			109	15-Dec-21 A	03-May-22		
	WA9 at Road L3				100	10 2002111	00 May 22		
RWA9 Bay 13 to RWA9-1240	RWA9 - F/W & rebat fixing to Bay 16 wall	0			159	02 km 01 A	21 Dec 21 A		
						23-Jun-21 A	31-Dec-21 A		
RWA9-1250	RWA9 - Concrete laying for Bay 16 wall	0			1	03-Jan-22 A	03-Jan-22 A		RWA9i- F/W & rebat fixing to Bay 13, 14 & 15 wall
RWA9-1260	RWA9 - F/W & rebat fixing to Bay 13, 14 & 15 wall	0			21	04-Jan-22 A	27-Jan-22		
RWA9-1270	RWA9 - Concrete laying for Bay 13, 14 & 15 wall	0			31	04-Jan-22 A	11-Feb-22		RWA9 - Concrete laying for
RWA9 Bay 21 &	Bay 22								
RWA9-1400	RWA9 - F/W & rebat fixing to Bay 21 & 22 Wall	0			183	30-Jun-21 A	09-Feb-22		RWA9 - F/W & rebat fixing to B
RWA9-1410	RWA9 - Concrete laying for Bay 21 & 22 Wall	0			3	10-Feb-22	12-Feb-22		RWA9 - Concrete laying f
Road Works L5,I	L1 east (between Junction L3 & L5)				·				
Road L1 east pa	art 2 (L5 toward PC system B)								
RL1b-1040	Road L1 east 2 - ducting for Street Lighting	0			618	19-Dec-19 A	19-Jan-22		Road L1 east 2 - ducting for Street Lighting
				1			1	i i	
— Pla	nned Bar (WP) 🔶 🔷 Planned Milestone (WP)					3-mont	h Rolli	ng Programme	Date Re 15-Dec-21 C1-MPU202112
Ac	tual Bar 🔶 🔶 Milestone			Andore					
	recast Bar			Anoers	on Rd Sub-r	orogramme			

	Page 2	of 3	
	Mar		Qtr 2, 2022 Apr
		0.0m Douth	
ment pi	ant - Backfilling (by course material) to 197.1mPE), 8.2m Depth	
1,2,4			
3			
6,7,12			
Statuto	y inspection		
+175			
4 (RWA	12) - Bay 22 construct wall & backfill upto +170 (after twin 1950 pir	be)
70 (afte	r system A sub-way)		
)			
) 4 (Drain	lage) - Backfill for water main CH200 to CH400		
or Bay 1	3, 14 & 15 wall		
	& 22 Wall 21 & 22 Wall		
.ог вау			
evisio	on C	hecked	Approved



俊和-上隧-浩隆聯營 CHUN WO - STEC - VASTEAM JOINT VENTURE

CONTRACT NO.NE/2016/01 SITE FORMATION AND INFRASTRUCTURE WORKS FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE 3-MONTH ROLLING PROGRAMME

Activity ID	Activity Name	BL Project	BL Project	BL Project	At Completion	Start	Finish			Qtr 1, 2022
-		Duration	Start	Finish	Duration			Dec	Jan	Feb
RL1b-1050	Road L1 east 2 - Road Pavement	0			534	17-Apr-20 A	29-Jan-22			oad L1 east 2 - Road Pavement
RL1b-1060	Road L1 east 2 - Landscape funiture	0			511	13-Jun-20 A	02-Mar-22		. (
Read I 1 cost part	t 3 (Junction L3 toward L5)									
	(Sunction Estoward Es)									
RL1c-1060	Road L1 east 2 - Landscape funiture	0			493	13-Jun-20 A	09-Feb-22			Road L1 east 2 - Landscape funit
Road Works PTT,	L1 west (between Junction L3 & PTT)		1							
Road L1 west par	rt 1 (Box culvert BC1)									
RL1c-1140	Road L1 west 1 - Landscape funiture	0			227	21-Jun-21 A	23-Mar-22			-
Hiking Trail Conne	ecting to Wison Trail (Portion B5)		1		,	1	,			
Construction wor	rks at Hiking Trail									
HIK10130	(NOC215) Delay due to Design review on Hiking Trail	0			203	06-Jul-21 A	09-Mar-22			
HIK10150	Resume work - Construction of Dwarf Walls for Hiking Trail (SP001 to SP001A)	0			75	10-Mar-22	11-Jun-22			

Planned Bar (WP) Actual Bar	 ♦ Planned Milestone (WP) ♦ Milestone 	3-month Rolling Programme	Date 15-Dec-21	C1-MPU202112	F
Forecast Bar	▼ Milestone	Anderson Rd Sub-programme 15-Jan-22			

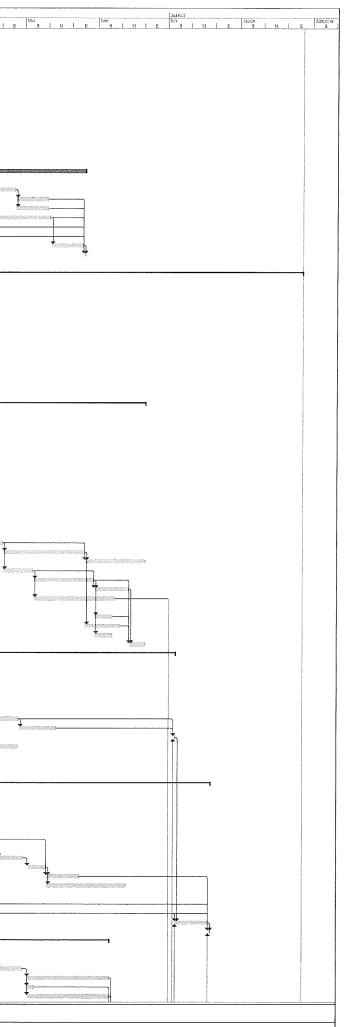
		_	2 62	
		Pa	ge 3 of 3	Qtr 2, 2022
	ļ	Mar		Apr
		Road L1 east 2 - Landscape funit	ure	
funiti	ure			
	_		Road L1 west 1	- Landscape funiture
		(NOC215) Delay du	e to Design review on Hiki	ng Trail
			5	5
2~			Charlie	Annered
xev	isio	II	Checked	Approved



Contract 2 (NE/2016/05)

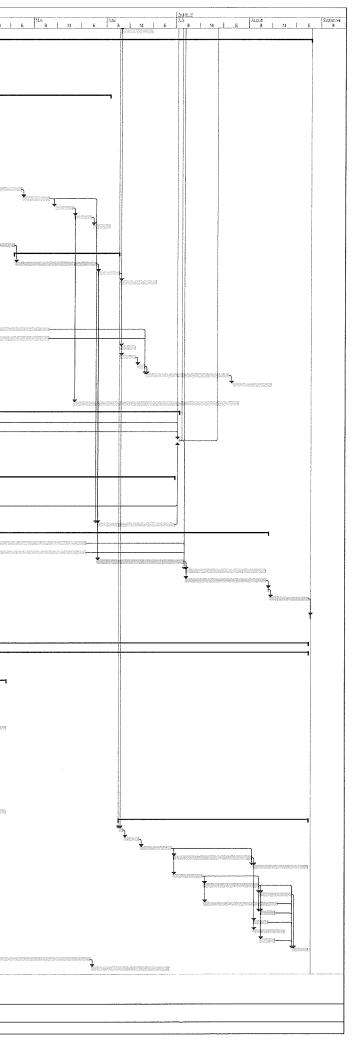
	л Т	Derition Start Frish Producesors Successors	Aural Structure Database December	lat BLY Izzan i Férran Birzh iawi bu.	Las
1 NE/20	016/05		. B M E SUBJECT DETENT	I E 3 M E 3	
2 Por	rtion 1	240 days? Tue 03-08-21 Thu 26-05-22			
		84 days Tue 03-08-21 Thu 11-11-21			
-5	Bamboo Scaffolding Erection PC1 to PC2	26 days Tue 03-08-21 Wed 01-09-21 5 days Tue 03-08-21 Sat 07-08-21 12,26			
6	PC2 to PC3	9 days Mon 23-08-21 Wed 01-09-21 13,27			
7	PC3 to PC4 PC4 to PC5	5 days Fri 20-08-21 Wed 25-08-21 14,28 5 days Sat 14-08-21 Thu 19-08-21 15,29			
9		5 days Sat 14-08-21 Thu 19-08-21 15,29 5 days Mon 09-08-21 Fri 13-08-21 16,30			
10	Steel Frame Adjustment & Corrugated Sheet Roofing Install				
11		5 days Mon 16-08-21 Fri 20-08-21 18,47			
13		5 days Fri 20-08-21 Wed 25-08-21 5,26 19,48 5 days Fri 10-09-21 Wed 15-09-21 6 20,27,14,49			
14	PC3 to PC4	5 days Thu 16-09-21 Tue 21-09-21 7,13 21,28,50			
15		5 days Thu 16-09-21 Tue 21-09-21 8,16 22,29,51			
L)		5 days Fri 10-09-21 Wed 15-09-21 9 23,30,15,52 27 days Sat 04-09-21 Thu 07-10-21			
18	RS1 to PC1	12 days Sat 04-09-21 Fri 17-09-21 11 25,55,62			
19 20		12 days Sat 04-09-21 Fri 17-09-21 12 56,63			
20		12 days Thu 16-09-21 Thu 30-09-21 13 57,64 12 days Thu 23-09-21 Thu 07-10-21 14 58,65			
22		12 days Thu 23-09-21 Thu 07-10-21 15 59,66			
23		12 days Thu 16-09-21 Thu 30-09-21 16 60			
25		53 days Mon 09-08-21 Mon 11-10-21 15 days Sat 18-09-21 Thu 07-10-21 18			
26		10 days Mon 09-08-21 Thu 19-08-21 5 12,62			
27		10 days Thu 16-09-21 Tue 28-09-21 6,13 28,63			
28		10 days Wed 29-09-21 Mon 11-10-21 7,14,27 64 10 days Wed 29-09-21 Mon 11-10-21 8,15,30 65			
30	PCS to PC6	10 days Thu 16-09-21 Tue 28-09-21 9,16 29,66			
31		20 days Thu 23-09-21 Mon 18-10-21			
32		6 days Thu 23-09-21 Wed 29-09-21 2 days Thu 23-09-21 Fri 24-09-21 40,34,90,83			
34		2 days Sat 25-09-21 Mon 27-09-21 33 35,90,84			
35		2 days Tue 28-09-21 Wed 29-09-21 34 90,85			
37		2 days Thu 23-09-21 Fri 24-09-21 43,37,90,86 2 days Sat 25-09-21 Mon 27-09-21 36 38,90,87			
38	PC5 to PC6	2 days Tue 28-09-21 Wed 29-09-21 37 90,88			
39 40		18 days Sat 25-09-21 Mon 18-10-21			
41		6 days Sat 25-09-21 Sat 02-10-21 33 41 5 days Mon 04-10-21 Sat 09-10-21 40 42			
4.2	PC2 to PC3	6 days Mon 11-10-21 Mon 18-10-21 41			
43		5 days 5at 25-09-21 Sat 02-10-21 36 44			
45		6 days Mon 04-10-21 Sat 09-10-21 43 45 6 days Mon 11-10-21 Mon 18-10-21 44			
-16		34 days Mon 13-09-21 Mon 25-10-21			
47		12 days Mon 20-09-21 Tue 05-10-21 11 48			
-+3		5 days Wed 06-10-21 Mon 11-10-21 47,12 49 5 days Tue 12-10-21 Mon 18-10-21 48,13			
50	PC3 to PC4 (Landing)	5 days Tue 28-09-21 Mon 04-10-21 53,14 51			
51 52		5 days Tue 05-10-21 Sat 09-10-21 50,15 52			
53		12 days Mon 11-10-21 Mon 25-10-21 51,16 12 days Mon 13-09-21 Mon 27-09-21 50			
51		17 days Sat 18-09-21 Sat 09-10-21			
55		2 days Sat 18-09-21 Mon 20-09-21 18 2 days Sat 18-09-21 Mon 20-09-21 19 62			
57		2 days Sat 02-10-21 Mon 04-10-21 19 62 2 days Sat 02-10-21 Mon 04-10-21 20 63			
58		2 days Fri 08-10-21 Sat 09-10-21 21 64			
59 60		2 days Fri 08-10-21 Sat 09-10-21 22 65 2 days Sat 02-10-21 Mon 04-10-21 23 66			
		18 days Tue 21-09-21 Wed 13-10-21			
62 63		2 days Tue 21-09-21 Thu 23-09-21 56,26,18 70			
64		2 days Tue 05-10-21 Wed 06-10-21 57,27,19 71 2 days Tue 12-10-21 Wed 13-10-21 58,28,20 72			
65		2 days Tue 12-10-21 Wed 13-10-21 59,29,21 73			
66 67		2 days Fri 08-10-21 Sat 09-10-21 60,30,22 74			
63		29 days Mon 20-09-21 Tue 26-10-21 22 days Mon 20-09-21 Mon 18-10-21			
69		8 days Mon 20-09-21 Thu 23-09-21 76,70			
70		days Fri 24-09-21 Mon 27-09-21 62,69 77	t≊n ↓		
71		8 days Thu 07-10-21 Sat 09-10-21 63 78 8 days Fri 15-10-21 Mon 18-10-21 64 79			
73		days Fri 15-10-21 Mon 18-10-21 65 80			
74	PC5 to PC6	days Mon 11-10-21 Wed 13-10-21 66 81			
75		24 days Fri 24-09-21 Sat 23-10-21 i days Fri 24-09-21 Wed 29-09-21 69 90,83,84,85			
77		i days Tue 28-09-21 Mon 04-10-21 70 90,84,83,85			
78	PC2 to PC3	days Mon 11-10-21 Sat 16-10-21 71 90,85,83,84			
79 80		idays Tue 19-10-21 Sat 23-10-21 72 90,86,87,88 idays Tue 19-10-21 Sat 23-10-21 73 90,87,86,88			
31		adys file 19-10-21 3al 23-10-21 73 30,87,86,88 i days Fri 15-10-21 Wed 20-10-21 74 90,88,86,87			
\$2	Escalators Barriers Installation	days Mon 18-10-21 Tue 26-10-21			
83 84		days Mon 18-10-21 Tue 19-10-21 76,77,78,33 90 days Mon 18-10-21 Tue 19-10-21 77,76,78,34 90			
85		days Mon 18-10-21 Tue 19-10-21 77,78,78,34 90 days Mon 18-10-21 Tue 19-10-21 78,76,77,35 90			
36	PC3 to PC4	days Mon 25-10-21 Tue 26-10-21 79,80,81,36 90	∃ħ		
87 88		days Mon 25-10-21 Tue 26-10-21 80,79,81,37 90 days Mon 25-10-21 Tue 26-10-21 81,79,80,38 90			
89		days wed 27-10-21 We 28-10-21 a1,79,80,38 90			
90		2 days Wed 27-10-21 Tue 09-11-21 79,80,36,81,37,38,76,77,78,33,34,35,83,84,85,86,87,88 91			
		day Wed 10-11-21 Wed 10-11-21 90 3 days Fri 20-08-21 Tue 28-09-21	f		
93	Manhole	0 days Fri 20-08-21 Fri 24-09-21 95			
94	Drain Pipe Installation	0 days Fri 20-08-21 Fri 24-09-21 95			
		days 5at 25-09-21 Tue 28-09-21 93,94 109 8 days Fri 20-08-21 Wed 10-11-21			
97	XP / TTA	days Wed 15-09-21 Tue 21-09-21 98	- 2000		
93		0 days Thu 23-09-21 Fri 29-10-21 97 99			
100		days Sat 30-10-21 Thu 04-11-21 98 101 days Fri 20-08-21 Wed 25-08-21 101			
101	Testing	days Fri 05-11-21 Wed 10-11-21 99,100,106 109			
102		2 days Sat 21-08-21 Mon 11-10-21	I		
103		2 days Wed 15-09-21 Wed 29-09-21 105 4 days Sat 21-08-21 Thu 30-09-21 105			
		days 5at 02-10-21 Thu 07-10-21 103,104 106	€azzitor		
05					

		Dattica	, nor	Finish Prakossors		Success		August Street/st Direct Direct <thdirect< th=""> <thdirect< th=""> <thdirect<< th=""></thdirect<<></thdirect<></thdirect<>
206	Testing Fail Arrest System Installation			Mon 11-10-21 105 Wed 06-10-21		101 109		
03	Painting		Fri 20-08-21	Fri 24-09-21		109 109		
09	Handover of Escalators Landscaping on Slope	1 day 29 days		Thu 11-11-21 101,95,108,107 Mon 27-09-21				
11	U-Channel			Mon 27-09-21 Tue 31-08-21		112		
112 113	Planting			1 Thu 16-09-21 111		113		
112	Hydroseeding Handover of Slope	7 days 1 day		Sat 25-09-21 112 1 Mon 27-09-21 113		114 126,128,127		
	Construction of LCSD Rest Garden	113 days?	Fri 20-08-21	Wed 05-01-22		,,		
116	XP & TTA Obtainment Remove Ext. Planter Wall			1 Wed 05-01-22 Tue 21-09-21				
18	Remove Ext. Tree							
19 20	Construction of Pavement Construction of Pavilon, Bench							
21	Construction of Sau Mau Ping Memorial Park			Fri 20-08-21 Thu 26-05-22				
22	Submission for Pole Light, Pavilion, Bench			Thu 17-03-22		123		eteroansa ta anti-
.24	Procurement of Pole Light, Pavilion, Bench Construction of Pavilon			Tue 26-04-22 122 2 Tue 10-05-22 123		124,125 130		
25	Construction of Pole Light with Cabling	10 days	Wed 27-04-22	Tue 10-05-22 123		130		
26	Construction of Pavement Construction of Irrigation System			Wed 11-05-22 114 Fri 01-04-22 114		130,129 130		
.28	Construction of Railing	12 days	Tue 01-03-22	Mon 14-03-22 114		130		
29 30	Planting Handover to LCSD			Wed 25-05-22 126 Thu 26-05-22 124,125,126,128,129	177	130		
31								
	rtion 2			Sat 27-08-22				
34	E3-PC2 Pile Cap, Column and Pier Concrete Capping Works			Sat 19-03-22 Tue 14-09-21		137		
35 36	Temporary Working Platform for Piling	12 days	Wed 01-09-21	Tue 14-09-21		137		
37	Risk Assessment for Existing RC Canopy at Fu Wah Court Piling Works			Fri 08-10-21 Thu 25-11-21 135,134,136		137,172 138,154,155		
18	Anchor Plate for Pile Heads incl. Testing	6 days	Fri 26-11-21	Thu 02-12-21 137		139		
9 0	Construction of Blindng Layer Constructiono of Pile Cap			Sat 04-12-21 138		140		
-	Construction of Pile Cap Construction of Column			Thu 16-12-21 139 Mon 03-01-22 140		141 142		
2	Construction of Pier Head and Corbal	22 days	Tue 04-01-22	Fri 28-01-22 141		143,144		
3	Concrete Curing for Pier Head Bearing Installation at Corbal			Sat 05-03-22 142 Fri 11-02-22 142		145 145		
5	Erect Temp. Steel Support (for 2nd Session, E3-FB1)	12 days	Mon 07-03-22	Sat 19-03-22 144,143		145		
16	E3-FB1 Bridge			Tue 21-06-22				
48	Design Submission of Temporary Support at E3-Abt Design Submission Approval of Temporary Support at E3-Al			Tue 24-08-21 Tue 28-12-21 147		154,148,155 151		
19								
0	Shop Drawing Submission of E3-FB1 Shop Drawing Approval of E3-FB1			Fri 27-08-21 Tue 28-12-21 149		154,150,155 152,153		
51	Procurement of Material for Temp. Support	12 days	Wed 29-12-21	Wed 12-01-22 148		154,155		
2	Procurement / fabribation for E3-FB1 (1st Session)			Tue 01-03-22 150		156		
	Procurement / fabribation for E3-FB1 (2nd-4th Session) Erect Temp. Support at E3-Abt (For 1st Session, E3-FB1)			Fri 04-03-22 150 Mon 21-02-22 147,149,151,137,175		157,158,159 156		
-	Bearing Installation at E3-Abt	3 days	Thu 13-01-22	Sat 15-01-22 147,149,151,137		156		
	Install E3-FB1 - 1st Session (from E3-Abt) Install E3-FB1 - 2nd Session (from E3-PC2)			Tue 08-03-22 152,154,155		176,157,158		
d :	Install E3-FB1 - 2nd Session (from E3-PC2) Install E3-FB1 - 3rd Session (Connect 1st & 2nd Session)			Wed 23-03-22 145,156,153 Sat 26-03-22 156,157,153		231,158 159		
л Л	Install E3-FB1 - 4th Session (E3-LT1 to E3-PC2)	6 days	Mon 28-03-22	Sat 02-04-22 158,153		160,232		
0	Concreting Bridge Deck Construction of RC Planters			Thu 21-04-22 159 Thu 26-05-22 160		163,161,162 168,162		
2	Floor Tiling	21 days	Fri 27-05-22	Tue 21-06-22 160,161		100,102		
3	Erection of Scaffolding	10 days		Wed 04-05-22 160		165,166,164		
5	Installation of Corrugated Roof Panel & Gutter			Mon 30-05-22 163 Tue 14-06-22 163,164		167,169,170,165 170		
1	Installation of E&M Works incl. Lighting, Power Cable (From					170,253		
-	E3 Pillar to E2 Pillar) Installation of Downpipe	6 days	ue 31-05-77	Tue 07-06-22 164		170	1.	
	Installation of Irrigation System			Fri 10-06-22 161		170	TO COMPANY AND A	
ŀ	Fall Arrest System	6 days	Tue 31-05-22	Tue 07-06-22 164			P ALL AND	
6	Dismantling of Scaffolding & Temporary Support to E3-F81 Covered Walkway, Sump Pit, E2 Pillar Box			Tue 21-06-22 164,165,166,167,168 Mon 04-07-22				
1	Excavation of Footing and Sump Pit	69 days	Sat 09-10-21	Fri 31-12-21 136		173,174		\bullet
	Construction of Footing of Covered Walkway Construction of Sump Pit			Mon 07-02-22 172 Mon 07-02-22 172		175 175,182		
	Backfilling and Compaction Test			Mon 07-02-22 172 Mon 14-02-22 173,174		175,182 176,154		
]	Installation of Steel Frame (Covered Walkway)	6 days	Ned 09-03-22	Tue 15-03-22 175,156		177		teenan
	Installation of Roofing (Covered Walkway) Construction of E2 Pillar Box (Civil)			Tue 22-03-22 176 Thu 28-04-22 177		181,183,184,190, 179,180	203,178,182	
1	Construction of E2 Pillar Box (E&M)	12 days	ri 29-04-22	Sat 14-05-22 178		180		
and the second second	E2 Pillar Energized from E3 Pillar Construction of Pavement			Mon 04-07-22 253,178,179 Thu 28-04-22 177		200		
lander level in the second	Installation of E&M Works (Pump & Lighting)			Wed 20-04-22 177				
1.	Installation of Irrigation Pipe			Tue 29-03-22 177				Reary
F	Fail Arrest System 2 Lift Tower			Tue 29-03-22 177 Tue 19-07-22				
	Scaffolding Modification			Mon 20-09-21		187,188,189		
-	Window and Louvre Installation			Tue 26-10-21 186		190,197	.	
	Tiling Works on Wall Waterproofing Works			Tue 16-11-21 186 Wed 20-10-21 186		190 190		
	Erect Falseworks for E2-LT1 Staircase Landing at +62.85mPD	6 days	Ved 23-03-22	Tue 29-03-22 177,187,188,189		191		
	Construction of E2-LT1 Staircase Landing at +62.85mPD Erect Falseworks for E2-LT1 RC Decking at +66.3mPD			Wed 06-04-22 190 Tue 19-04-22 191		192,195		
	Construction of E2-LT1 RC Decking at +66.3mPD			Sat 30-04-22 191		193,205 194		
	Installation of Steel Frame	6 days 1	ue 03-05-22	Tue 10-05-22 193		195,196	· · · ·	
	Installation of Railing Tiling Works			Tue 24-05-22 194,191 Mon 13-06-22 194		201		
I	E&M Works			Sat 27-11-21 187		198,199		
	Cabling for Permanent Power			Sat 11-12-21 197		201		
	Lift Installation			Wed 02-03-22 197 Mon 18-07-22 199,253,180		201,200 201		
	LES Submission to EMSD	1 day 1	ue 19-07-22	Tue 19-07-22 199,198,195,253,200				
	2-PC2 Pile Cap	58 days	Ved 23-03-22	Mon 06-06-22				
	Excavation for Column Construction Construction of Column			Fri 25-03-22 177 Sat 09-04-22 203		204 205		
	Construction of Pier Head and Corbal	10 days	Ved 20-04-22	Sat 30-04-22 204,192		207,208,206		
	Concrete Curing for Pier Head and Corbal Bearing Installation			Mon 06-06-22 205 Thu 05-05-22 205		293		
				Mon 06-06-22 205		293 209		
D	Irainage	20 0475 1	ue 03-03-22					
	rrainage 605_Programme_20 Tak Milan Spir	36r	¢		inactive Milestone Inactive Summary	Manual Task I Duratura-rajo		line viewentersteren in the second s



	ść. Name	Dantion Start Faish Predecesors	Successors	August Specchar Outwar Nummer Description Lisuri Fernari Math. And. E .3 M E .3 .4 .6 .5 .4 .6 .5 .4 .6 .5 .4 .6
374	Reinstatment	12 days Tue 07-06-22 Mon 20-06-22 208	· · · · · · · · · · · · · · · · · · ·	E 3 M E 3 M
210	E3-LT1 Lift TowerPortion 2 E3-LT1 Lift tower structure	294 days Tue 31-08-21 Sat 27-08-22		
211	15th pour (+59.7 - +63.3mPD)	57 days Tue 31-08-21 Mon 08-11-21 25 days Tue 31-08-21 Wed 29-09-21	_ 213	
213	16th pour (+63.3 - +66.5mPD)	12 days Thu 30-09-21 Frí 15-10-21 212	214	Telesconductions
214	17th pour (+66.5 - +70.45mPD)	10 days Sat 16-10-21 Wed 27-10-21 213	215	Sacara and S
215	18th pour (+70.45 - +71.35mPD & Partial Parapet wall)	10 days Thu 28-10-21 Mon 08-11-21 214	217,258	
217	E3-ST1 Staircase (landing & stairs) 1st pour (+25.0 - +28.6mPD)	128 days Wed 22-12-21 Thu 02-06-22 7 days Wed 22-12-21 Fri 31-12-21 215	218	
218	2nd pour (+28.6 - +32.2mPD)	10 days Mon 03-01-22 Thu 13-01-22 217	219	* Second Second
219	3rd pour (+32.2 - +35.8mPD)	10 days Fri 14-01-22 Tue 25-01-22 218	220	alteritations
220	4th pour (+35.8 - +38.8mPD)	10 days Wed 26-01-22 Wed 09-02-22 219	221	
221	5th pour (+38.8 - +41.8mPD)	10 days Thu 10-02-22 Mon 21-02-22 220	222	
223	6th pour (+41.8 - +45.4mPD) 7th pour (+45.4 - +49.0mPD)	10 days Tue 22-02-22 Fri 04-03-22 221 10 days Sat 05-03-22 Wed 16-03-22 222	223 224	
224	8th pour (+49.0 - +52.6mPD)	10 days Sat 05-03-22 Wed 16-03-22 222 10 days Thu 17-03-22 Mon 28-03-22 223	224 225	
225	9th pour (+52.6 - +56.2mPD)	10 days Tue 29-03-22 Sat 09-04-22 224	226	
226	10th pour (+56.2 - +59.7mPD)	10 days Mon 11-04-22 Mon 25-04-22 225	227	North Contract of
227	11th pour (+59.7 - +63.3mPD)	10 days Tue 26-04-22 Sat 07-05-22 226	228,262	
228 229	12th pour (+63.3mPD)	7 days Tue 10-05-22 Tue 17-05-22 227	229,249	
230	13th pour (+66.5mPD) 14th pour (+70.45mPD)	7 days Wed 18-05-22 Wed 25-05-22 228 7 days Thu 26-05-22 Thu 02-06-22 229	230	
	Erection of small crane at roof	15 days Thu 24-03-22 Mon 11-04-22 157	232	
231	Removal of tower crane & footing	7 days Tue 12-04-22 Fri 22-04-22 231,159	234	H ereita and the second s
233	Reinstatement works for tower crane slab	35 days Sat 23-04-22 Mon 06-06-22		
234 235	Slab Opening Reinstatement	28 days Sat 23-04-22 Fri 27-05-22 232	235,262,266	
236	Parapet Wall (Remaining) Removal of small crane	7 days Sat 28-05-22 Mon 06-06-22 234 14 days Tue 07-06-22 Wed 22-06-22 235	243,244,236	
237	Steel truss - welding works & welding test	14 days The 07-05-22 Wed 22-05-22 235 31 days Thu 23-09-21 Sun 31-10-21	238,239	
238	Window installation	61 days Mon 01-11-21 Thu 13-01-22 237	240	
239	Louvre installation	61 days Mon 01-11-21 Thu 13-01-22 237	240	
240	Water tightness test for E3-LT1 louvre / windows	12 days Fri 14-01-22 Thu 27-01-22 238,239	24155,24255,248,264	
241	Tiles (Wall/Staircase/Floor) Paint	90 days Fri 14-01-22 Sat 07-05-22 240SS 90 days Fri 14-01-22 Sat 07-05-22 240SS	246 246	
243	Fail Arrest System (Roof)	6 days Tue 07-06-22 Mon 13-06-22 235		
24.1	Waterproof (Roof)	6 days Tue 07-06-22 Mon 13-06-22 235	245	
245	Water tightness test for E3-LT1 roof	4 days Tue 14-06-22 Fri 17-06-22 244	246	
246	Dismantle of scaffolding working platform	30 days Sat 18-06-22 Sat 23-07-22 245,241,242	247	
247	Glass canopy at G/F Install inclined plate at the recess of Windows & Louvres	15 days Mon 25-07-22 Wed 10-08-22 246 59 days Fri 04-02-22 Thu 14-04-22 240		
349	Railing (GMS) on staircase	59 days Wed 18-05-22 Wed 27-07-22 228		A structure and the end structure of the end struct
150	E&M works	219 days Mon 04-10-21 Sat 02-07-22		
251	Incoming Cable by CLP	90 days Mon 04-10-21 Thu 20-01-22	253	
252	E3 Pillar Box (Civil)	65 days Mon 18-10-21 Tue 04-01-22	253,260	
252 253 254	E3 Pillar Energized by CLP Telemetry Duct	1 day Sat 02-07-22 Sat 02-07-22 251,252,166,262,260 47 days Fri 15-10-21 Wed 08-12-21	267,201,200,180 25555	
255	Drainage Manhole	47 days Fri 15-10-21 Web 05-12-21 109 days Fri 15-10-21 Fri 25-02-22 254SS	25555	
256	Sump pit (Civil)	92 days Mon 01-11-21 Tue 22-02-22	259	
257	Electrical installation	188 days Tue 09-11-21 Thu 30-06-22		<u></u>
258	Lift Shafts	90 days Tue 09-11-21 Mon 28-02-22 215	261	
259	Sump Pit (E&M) Piilar Box (E&M)	30 days Wed 23-02-22 Tue 29-03-22 256 30 days Wed 05-01-22 Fri 11-02-22 252	252	
259 260 261 262 263	Pillar Box (E&M) Lighting	30 days Wed 05-01-22 Fri 11-02-22 252 31 days Tue 01-03-22 Wed 06-04-22 258	253	
262	Machine room	28 days Sat 28-05-22 Thu 30-06-22 234,227	253	
263	Lift installation	155 days Fri 28-01-22 Tue 09-08-22		
264 265 266	Lift Car Installation	90 days Fri 28-01-22 Mon 23-05-22 240	26555,267	
266	Door frames / Misc. Machine room installation	90 days Fri 28-01-22 Mon 23-05-22 26455 30 days Sat 28-05-22 Mon 04-07-22 234	267 267,268	
367	Self test	30 days Sat 28-05-22 Mon 04-07-22 234 30 days Tue 05-07-22 Mon 08-08-22 266,253,264,265	207,208	
265	T&C	30 days Tue 05-07-22 Mon 08-08-22 266	269	
	Submit LES to EMSD	1 day Tue 09-08-22 Tue 09-08-22 268	270	
270	Pre-handing over inspection (E3-LT1 & E3-FB1) by HyD/Structure Maintenance	15 days Wed 10-08-22 Fri 26-08-22 269	271	
271	Ready to open Lift Tower E3-LT1 / Footbridge E3-FB1 to	1 day 5at 27-08-22 Sat 27-08-22 270		
	public			
272				
273	Portion 3	276 days Mon 20-09-21 Fri 26-08-22		
274	E2-FB1 Bridge Shop Drawing Approval of E3-FB1	276 days Mon 20-09-21 Fri 26-08-22 7 days Mon 20-09-21 Tue 28-09-21	276	
276	Procurement of Material for E3-FB1	45 days Mon 20-09-21 Thu 25-11-21 275	276 278	
277	E2-FB1 - 1st Span (Housing Lift Tower to E2-P2)	69 days Fri 21-01-22 Tue 19-04-22		
278 279	Bridge Erection (Only allow on Sat to Sun / Public Holiday		279	
279 250	Remaining Steelworks before Bridge Deck Casting	6 days Mon 24-01-22 Sat 29-01-22 278	280	
281	Concreting Bridge Deck Construction of RC Planter	12 days Mon 31-01-22 Wed 16-02-22 279 28 days Thu 17-02-22 Mon 21-03-22 280	281,283,282 289,288,307,282	
	Floor Tiling	21 days Tue 22-03-22 Tue 19-04-22 280,281		
282		21 days Tue 22-05-22 Tue 19-04-22 280,281		the second se
282 283	Erection of Scaffolding	10 days Thu 17-02-22 Mon 28-02-22 280	284,285,286,287	
282 283 284	Installation of Corrugated Roof Panel & Gutter	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Thu 24-03-22 283	287,290,291,285	
282 283 284 285	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Thu 24-03-22 283 12 days Fri 25-03-22 Fri 08-04-22 283,284	287,290,291,285 291	
282 283 284 285 286	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature Installation of E&M Works incl. Unistruct & Ughting	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Thu 24-03-22 283 12 days Fri 25-03-22 Fri 08-04-22 283,284 28 days Tue 01-03-22 Fri 01-04-22 283,284	287,290,291,285 291 291	
282 283 284 285 286 286 287 288	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Thu 24-03-22 283 12 days Fri 25-03-22 Fri 08-04-22 283,284	287,290,291,285 291	
282 283 284 285 286 287 287 288 289	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature Installation of E&M Works incl. Unistruct & Lighting Installation of Downpipe Installation of Railing Installation of Irrigation System	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Thu 24-03-22 283 12 days FT 25-03-22 FT 08-04-22 283 28 days Tue 01-03-22 FT 01-04-22 283 6 days FT 25-03-22 FT 10-31-02-2 284,283 12 days FT 25-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 04-04-22 281 6 days Tue 22-03-22 Mon 28-03-22 281	287,290,291,285 291 291 291 291	
282 283 284 285 286 287 288 287 258 259 290	Installation of Corrugated Roof Panel & Gutter Installation of GRM Feature Installation of ERM Works incl. Unistruct & Lighting Installation of Rolling Installation of Irrigation System Fall Arrest System	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Thu 24-03-22 283 12 days Fri 02-03-22 Fri 08-04-22 283,284 28 days Tue 01-03-22 Fri 08-04-22 283 6 days Fri 25-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 04-04-22 281 6 days Tri 25-03-22 Thu 31-03-22 284 6 days Tri 25-03-22 Thu 31-03-22 284	287,290,291,285 291 291 291 291	
282 283 284 285 286 287 286 287 288 289 290 291	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature Installation of C&M Works incl. Unistruct & Lighting Installation of Downpipe Installation of Pringation System Fail Arres System Dismantling of Scaffolding	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Thu 24-03-22 283 12 days Fri 25-03-22 Fri 08-04-22 283,284 28 days Tue 01-03-22 Fri 08-04-22 283 6 days Fri 25-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 04-04-22 281 6 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 25-03-22 Mon 28-03-22 281 6 days Tue 25-03-22 Mon 28-03-22 281 6 days Sat 09-04-22 284 284	287,290,291,285 291 291 291 291	
282 283 284 285 286 287 286 287 288 289 290 291	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature Installation of OBRP Feature Installation of Downpipe Installation of Ariling Installation of Ariling Installation of Irrigation System Fall Arrest System Dismanting of Scaffolding E2-FB1 - 2nd Span (E2-P2 to E2-LT1)	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tic 01-03-22 Thu 24-03-22 283 12 days Tic 55-03-22 Fin 08-04-22 283, 284 28 days Tue 01-03-22 Fin 01-04-22 283, 284 28 days Tue 01-03-22 Fin 01-04-22 283, 284 12 days Fin 22-03-22 Mon 28-03-22 284, 283 12 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 22-03-22 Mon 28-03-22 281 6 days Fin 25-03-22 Thu 31-03-22 284 6 days Fin 25-03-22 Thu 31-03-22 284 6 days Sat 09-04-22 Tue 31-03-22 284 6 days Sat 09-04-22 Tue 31-03-22 284 6 days Tue 07-06-22 Fin 26-03-24 Tue 31-03-24	287,290,291,285 291 291 291 291 291 291	
282 283 284 285 286 287 286 287 288 289 280 291 290 291 292 293 294	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature Installation of C&M Works incl. Unistruct & Lighting Installation of Downpipe Installation of Pringation System Fail Arres System Dismantling of Scaffolding	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tic 01-03-22 Thu 24-03-22 283 12 days Tic 55-03-22 Fin 08-04-22 283, 284 28 days Tue 01-03-22 Fin 01-04-22 283, 284 28 days Tue 01-03-22 Fin 01-04-22 283, 284 12 days Fin 22-03-22 Mon 28-03-22 284, 283 12 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 22-03-22 Mon 28-03-22 281 6 days Fin 25-03-22 Thu 31-03-22 284 6 days Fin 25-03-22 Thu 31-03-22 284 6 days Sat 09-04-22 Tue 31-03-22 284 6 days Sat 09-04-22 Tue 31-03-22 284 6 days Tue 07-06-22 Fin 26-03-24 Tue 31-03-24	287,290,291,285 291 291 291 291	
232 233 234 235 236 237 238 239 239 230 291 292 293 294 295	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature Installation of GRM Works incl. Unistruct & Lighting Installation of Downpipe Installation of Pailling Installation of Irrigation System Fall Arrest System Dismantling of Scaffolding E2-FB1 - 2nd Span (E2-P2 to E2-CT1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steelworks before Bridge Deck Casting Concreting Bridge Deck	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Thu 24-03-22 283 12 days FT 25-03-22 FT 08-04-22 283, 284 28 days Tue 01-03-22 FT 01-04-22 283, 284 28 days Tue 01-03-22 FT 01-04-22 283, 284 28 days Tue 21-03-22 Thu 31-03-22 284, 283 12 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 20-03-22 Thu 31-03-22 284 6 days Sato 09-04-22 Tue 19-04-22 285, 286, 287, 289, 284, 290 69 days Tue 07-06-22 Fri 26-08-22 206, 207 6 days Tue 07-06-22 Wed 08-06-22 206, 207 6 days Tue 07-06-22 Wed 15-06-22 206, 207 2 days Thu 16-06-22 Wed 15-06-22 294	287,290,291,285 291 291 291 291 291 291 291 294 295 296,298,297	
232 233 234 235 236 237 238 239 239 290 291 293 293 294 295 296	Installation of Corrugated Roof Panel & Gutter Installation of BAM Peature Installation of EAM Works incl. Unistruct & Lighting Installation of Downpipe Installation of Irrigition System Fall Arrest System Dismantling of Scaffolding E2:FB1 - Zand Span (E2:P2 to E2:T1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steekworks before Bridge Deck Casting Concreting Bridge Deck	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Fni 24-03-22 283 12 days Fue 01-03-22 Fni 08-04-22 283.284 28 days Tue 01-03-22 Fni 08-04-22 283 6 days Fni 25-03-22 Thu 31-03-22 284.283 6 days Fni 25-03-22 Thu 31-03-22 284.283 12 days Tue 22-03-22 Mon 04-04-22 281 6 days Fri 25-03-22 Thu 31-03-22 284. 6 days Fri 25-03-22 Thu 31-03-22 281 6 days Fri 25-03-22 Thu 31-03-22 281 6 days Fri 25-03-22 Thu 31-03-22 284 6 days Exo 70-62-22 Vei 19-04-22 285,286,287,289,284,290 6 days Tue 07-06-22 Wei 08-06-22 206,207 6 days Thu 09-06-22 Wei 08-06-22 293 12 days Thu 16-06-22 Wei 29-06-22 294 28 days Thu 30-06-22 205 295	287,290,291,285 291 291 291 291 291 291 291 291 291	
232 233 234 235 256 257 258 259 290 291 292 293 294 295 296 297	Installation of Corrugated Roof Panel & Gutter Installation of CBR Feature Installation of E&M Works incl. Unistruct & Lighting Installation of Downpipe Installation of Irrigation System Fall Arrest System Dismantling of Scaffolding E2-FB1 - 2nd Span (E2-P2 to E2-LT1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steekworks before Bridge Deck Casting Concreting Bridge Deck Construction of RC Planter Floor Tilling	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Fit 08-04-22 283,284 28 days Tue 01-03-22 Fit 08-04-22 283,284 28 days Tue 20-03-22 Fit 08-04-22 283,284 6 days Fit 25-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 04-04-22 281 6 days Fit 25-03-22 Thu 31-03-22 284 6 days Fit 25-03-22 Thu 31-03-22 281 6 days Sat 09-04-22 Tue 19-04-22 285,286,287,289,284,290 6 days Tue 07-06-22 Veid 08-06-22 205,207 2 days Tue 07-06-22 Veid 08-06-22 206,207 6 days Thu 09-06-22 Veid 08-06-22 293 12 days Thu 16-06-22 Weid 08-06-22 294 28 days Thu 16-06-22 Weid 29-06-22 295 21 days Weid 08-06-22 295 204	287,290,291,285 291 291 291 291 291 291 291 294 295 296,298,297 303,304,297	
232 233 234 235 256 257 258 259 259 259 259 259 259 259 259 259 259	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature Installation of DRP Feature Installation of Dewnpipe Installation of Downpipe Installation of Irrigation System Fall Arrest System Dismantling of Scaffolding E2:F81 - 2nd Span (E2:P2 to E2-LT1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steehvorks before Bridge Deck Casting Concreting Bridge Deck Construction of RC Planter Fioor Tiling Erection of Scaffolding	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Fue 01-03-22 Thu 24-03-22 283 12 days Fi 75-03-22 Fi 00-04-22 283,284 28 days Tue 01-03-22 Fi 01-04-22 283,284 28 days Tue 01-03-22 Fi 01-04-22 283,284 12 days Fi 72-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 20-03-22 Thu 31-03-22 284,283 6 days Sato 09-04-22 Tue 19-04-22 285,286,287,289,284,290 6 days Tue 07-06-22 Fri 26-08-22 206,207 6 days Tue 07-06-22 Weid 08-06-22 206,207 6 days Tue 07-06-22 Weid 15-06-22 294 2 days Thu 30-06-22 Tue 02-08-22 294 2 days Thu 30-06-22 Tue 02-08-22 295 21 days Thu 30-06-22 Tue 20-02-22 295 <t< th=""><th>287,290,291,285 291 291 291 291 291 291 291 291 294 295 296,298,297 303,304,297 299,300,301,302</th><th></th></t<>	287,290,291,285 291 291 291 291 291 291 291 291 294 295 296,298,297 303,304,297 299,300,301,302	
232 233 234 285 286 287 286 287 288 290 290 291 290 291 292 293 294 295 294 295 296 297 293 294 295 296 297 293 299	Installation of Corrugated Roof Panel & Gutter Installation of CBR Feature Installation of E&M Works incl. Unistruct & Lighting Installation of Downpipe Installation of Irrigation System Fall Arrest System Dismantling of Scaffolding E2-FB1 - 2nd Span (E2-P2 to E2-LT1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steekworks before Bridge Deck Casting Concreting Bridge Deck Construction of RC Planter Floor Tilling	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Fit 08-04-22 283,284 28 days Tue 01-03-22 Fit 08-04-22 283,284 28 days Tue 20-03-22 Fit 08-04-22 283,284 6 days Fit 25-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 04-04-22 281 6 days Fit 25-03-22 Thu 31-03-22 284 6 days Fit 25-03-22 Thu 31-03-22 281 6 days Sat 09-04-22 Tue 19-04-22 285,286,287,289,284,290 6 days Tue 07-06-22 Veid 08-06-22 205,207 2 days Tue 07-06-22 Veid 08-06-22 206,207 6 days Thu 09-06-22 Veid 08-06-22 293 12 days Thu 16-06-22 Weid 08-06-22 294 28 days Thu 16-06-22 Weid 29-06-22 295 21 days Weid 08-06-22 295 204	287,290,291,285 291 291 291 291 291 291 291 294 295 296,298,297 303,304,297	
232 233 234 235 236 237 238 230 230 230 230 230 230 230 230 230 230	Installation of Corrugated Roof Panel & Gutter Installation of GRP Feature Installation of DRP Feature Installation of Downpipe Installation of Downpipe Installation of Irrigation System Fall Arrest System Dismantling of Scaffolding E2-F81 - 2nd Span (E2-P2 to E2-LT1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steekvorks before Bridge Deck Casting Concreting Bridge Deck Construction of RC Planter Floor Tilling Erection of Scaffolding Installation of GRP Feature Installation of GRP Feature Installation of GRP. Feature	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Fue 01-03-22 Thu 24-03-22 283 12 days Fi 75-03-22 Fi 00-04-22 283,284 28 days Tue 01-03-22 Fi 01-04-22 283,284 28 days Tue 01-03-22 Fi 01-04-22 283,284 28 days Tue 22-03-22 Mon 28-03-22 284,283 12 days Fi 22-03-22 Mon 28-03-22 281 6 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 27-06-22 Fi 12-03-22 284,283 6 days Tue 07-06-22 Fi 12-04-22 285,286,287,289,284,290 6 days Tue 07-06-22 Fi 12-06-22 293,284,290 6 days Tue 07-06-22 Wed 03-06-22 294,293 12 days Thu 16-06-22 Wed 13-06-22 294 2 days Thu 30-06-22 Wed 13-06-22 295,296 10 days Thu 30-06-22 Tue 12-07-22 295 21 days Wed 13-07-22 Fi 05-08-22 295	287,290,291,285 291 291 291 291 291 291 291 294 295 296,298,297 303,304,297 299,300,301,302 305,302,300,306 306	
282 283 283 284 285 286 287 288 280 291 291 292 293 294 295 296 297 293 294 295 296 297 297 298 299 300 301 302	Installation of Corrugated Roof Panel & Gutter Installation of BAP Feature Installation of EAM Works incl. Unistruct & Lighting Installation of Pownpipe Installation of Irnigition System Fall Arrest System Dismantling of Scaffolding E2:FB1 - Zand Span (E2:P2 to E2:T1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steekworks before Bridge Deck Casting Concreting Bridge Deck Construction of RC Planter Floor Tilling Erection of Scaffolding Installation of Corrugated Roof Panel & Gutter Installation of EAM Works Incl. Unistruct & Lighting Installation of Downpipe	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Fn 02-02-22 283 12 days Tue 01-03-22 Fn 08-04-22 283,284 28 days Tue 01-03-22 Fn 08-04-22 283,284 26 days Fn 25-03-22 Fn 08-04-02 281 6 days Fn 25-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 04-04-22 281 6 days Set 22-03-22 Mon 04-04-22 281 6 days Fn 25-03-22 Thu 31-03-22 284,283 6 days Set 09-04-22 Thu 31-03-22 284 6 days Tue 07-06-22 Wed 03-06-22 206,207 6 days Tuu 09-06-22 Wed 03-06-22 293 12 days Tuu 16-06-22 Wed 29-06-22 294 28 days Thu 30-06-22 Tue 12-07-22 295,296 10 days Thu 30-06-22 Fri 12-08-22 298,299 10 days Thu 30-06-22 Fri 13-08-22 298,299 12 d	287,290,291,285 291 291 291 291 291 294 295 296,298,297 303,304,297 299,300,301,302 305,302,300,306 306 306	
282 283 284 285 286 287 286 287 288 289 290 290 291 293 293 294 294 295 294 295 294 295 294 295 294 295 294 295 294 295 295 296 291 293 295 294 295 295 295 295 295 295 295 295 295 295	Installation of Corrugated Roof Panel & Gutter Installation of CAP Feature Installation of ESM Works incl. Unistruct & Lighting Installation of Downpipe Installation of Dringation System Fall Arrest System Dismantling of Scaffolding E2-EB1 - 2nd Span (E2-P2 to E2-LT1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steelworks before Bridge Deck Casting Concreting Bridge Deck Construction of RC Planter Floor Tilling Erection of Scaffolding Installation of Carputed Roof Panel & Gutter Installation of Carputed Roof Panel & Gutter Installation of GRP Feature Installation of GRP Feature Installation of Downpipe Installation of Downpipe Installation of Downpipe	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Fit 08-04-22 283,284 28 days Tue 01-03-22 Fit 08-04-22 283,284 28 days Tue 01-03-22 Fit 08-04-22 283,284 6 days Fit 25-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 04-04-22 281 6 days Fit 25-03-22 Thu 31-03-22 284,283 6 days Sat 09-04-22 Z81 560-22 6 days Tue 07-06-22 Wel 03-06-22 206,207 6 days Tue 07-06-22 Wel 03-06-22 293 12 days Tue 07-06-22 Wel 03-06-22 294 28 days Thu 30-06-22 Tue 12-07-22 295 21 days Wel 03-06-22 Tue 12-07-22 295 21 days Wel 03-06-22 Tue 12-07-22 295 21 days Wel 03-07-22 Tue 12-07-22 295 21 days Wel 03-07-22 Fit 19-08-22 298,299 21 day	287,290,291,285 291 291 291 291 291 291 291 294 295 296,298,297 303,304,297 299,300,301,302 305,302,300,306 306	
282 233 234 234 235 235 285 255 285 253 280 230 291 292 293 294 295 293 294 395 296 301 302 301 302 301 302 301 302 301 302 301 303 301 302 303	Installation of Corrugated Roof Panel & Gutter Installation of CBR Feature Installation of E&M Works incl. Unistruct & Lighting Installation of Downpipe Installation of Irrigation System Fall Arrest System Dismantling of Scaffolding E2:F81 - 2nd Span (E2:P2 to E2-L11) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steelworks before Bridge Deck Casting Concreting Bridge Deck Construction of RC Planter Floor Tilling Erection of Scaffolding Installation of Corrugated Roof Panel & Gutter Installation of E&M Works Incl. Unistruct & Lighting Installation of Failure Installation of Irrigation System Installation of Irrigation System Installation of Railing	10 days Thu 17-02-22 Mon 28-02-22 280 21 days The 01-03-22 Thu 24-03-22 283 12 days FT 25-03-22 FT 08-04-22 283,284 28 days Tue 01-03-22 FT 01-04-22 283,284 28 days Tue 01-03-22 FT 01-04-22 283,284 28 days Tue 21-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 22-03-22 Mon 28-03-22 281 6 days Tue 27-06-22 FT 18-03-22 284,283 6 days Tue 07-06-22 FT 18-03-22 285,286,287,289,284,290 6 days Tue 07-06-22 FT 18-06-22 293,293 2 days Tue 07-06-22 Ved 03-06-22 293 12 days Thu 18-06-22 Ved 13-06-22 293 12 days Thu 30-06-22 Tue 12-07-22 295 12 days Wed 13-07-22 Z98,299 284,299 12 days Wed 13-07-22 298,299 298,299	287,290,291,285 291 291 291 291 291 291 291 294 295 296,298,297 303,304,297 299,300,301,302 305,302,300,306 306 306 306	
22 233 233 234 234 235 236 236 237 238 2390 250 251 259 252 333 294 395 295 258 297 298 297 298 297 208 207 301 302 301 302 305 305 355	Installation of Corrugated Roof Panel & Gutter Installation of CAP Feature Installation of ESM Works incl. Unistruct & Lighting Installation of Downpipe Installation of Dringation System Fall Arrest System Dismantling of Scaffolding E2-EB1 - 2nd Span (E2-P2 to E2-LT1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steelworks before Bridge Deck Casting Concreting Bridge Deck Construction of RC Planter Floor Tilling Erection of Scaffolding Installation of Carputed Roof Panel & Gutter Installation of Carputed Roof Panel & Gutter Installation of GRP Feature Installation of GRP Feature Installation of Downpipe Installation of Downpipe Installation of Downpipe	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Fit 08-04-22 283,284 28 days Tue 01-03-22 Fit 08-04-22 283,284 28 days Tue 01-03-22 Fit 08-04-22 283,284 6 days Fit 25-03-22 Thu 31-03-22 284,283 12 days Tue 22-03-22 Mon 04-04-22 281 6 days Fit 25-03-22 Thu 31-03-22 284,283 6 days Sat 09-04-22 Z81 560-22 6 days Tue 07-06-22 Wel 03-06-22 206,207 6 days Tue 07-06-22 Wel 03-06-22 293 12 days Tue 07-06-22 Wel 03-06-22 294 28 days Thu 30-06-22 Tue 12-07-22 295 21 days Wel 03-06-22 Tue 12-07-22 295 21 days Wel 03-06-22 Tue 12-07-22 295 21 days Wel 03-07-22 Tue 12-07-22 295 21 days Wel 03-07-22 Fit 19-08-22 298,299 21 day	287,290,291,285 291 291 291 291 291 294 295 296,298,297 303,304,297 299,300,301,302 305,302,300,306 306 306	
232 233 234 235 235 235 235 236 237 235 239 230 230 230 230 230 230 230 230 230 230	Installation of Corrugated Roof Panel & Gutter Installation of Corrugated Roof Panel & Gutter Installation of EAM Works incl. Unistruct & Lighting Installation of Downpipe Installation of Irrigition System Fall Arrest System Dismantling of Scaffolding E2:F81 - 2 and Span (E2:P2 to E2:T1) Bridge Lifting (Only allow on Sat to Sun / Public Holiday) Remaining Steekworks before Bridge Deck Casting Concreteng Bridge Deck Construction of RC Planter Floor Tilling Erection of Scaffolding Installation of Corrugated Roof Panel & Gutter Installation of EAM Works Incl. Unistruct & Lighting Installation of EAM Works Incl. Unistruct & Lighting Installation of RDP Feature Installation of Rolling Installation Floor System	10 days Thu 17-02-22 Mon 28-02-22 280 21 days Tue 01-03-22 Thu 24-03-22 283 21 days Fitz 50-322 Fit 08-04-22 283,284 28 days Tue 01-03-22 Fit 08-04-22 283,284 28 days Tue 01-03-22 Fit 01-04-22 283,284 28 days Tue 22-03-22 Mon 28-03-22 284,283 12 days Tue 22-03-22 Mon 28-03-22 281,284 6 days Tue 22-03-22 Mon 28-03-22 281,285 6 days Tue 22-03-22 Mon 28-03-22 281,285 6 days Tue 27-06-22 Mon 28-03-22 281 6 days Tue 07-06-22 Fit 26-03-22 206,207 6 days Tue 07-06-22 Wed 03-06-22 204 2 days Thu 10-06-22 Wed 29-06-22 294 2 days Thu 10-06-22 Wed 29-06-22 295 21 days Wed 03-06-322 Fit 12-06-322 295 21 days Wed 13-07-22 Fit 13-06-822 298,299	287,290,291,285 291 291 291 291 291 291 291 294 295 296,298,297 303,304,297 299,300,301,302 305,302,300,306 306 306 306	

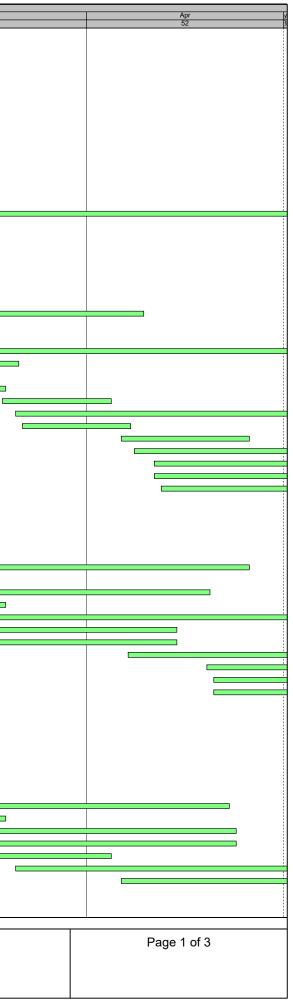
Project: NE201605 Programme 20	Taik	Mindras Mindras	٠	Project Summary	I Inactive MEetine	Magnal Task	Manual Surgeary Rollop en	Stat-aly	C	External Tasks	Dr.f.ne Ortcil	Crasai	
riojen inizioros jiregianne jio	Spi.s	Summary	1	Instruct Task	Inactor Summary	1 Darston-salv	Manual Summary	Faish-mit	E	Extend Milestone	 Critical 	Project	3 veral-analytic statements
										Page 3			



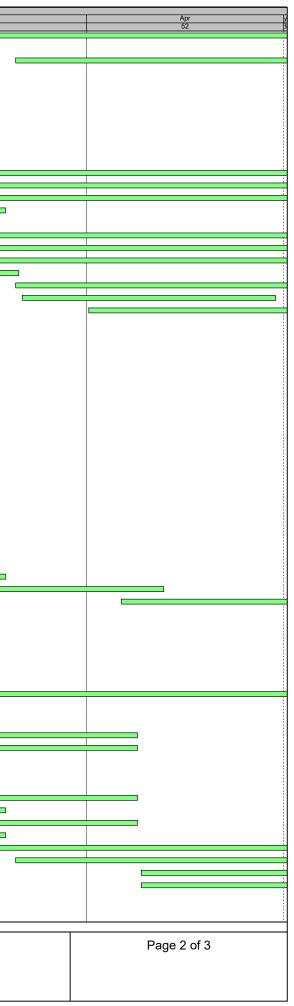


Contract 3 (NE/2017/03)

'ID	Activity Name	Duration	Start	Finish	Jan	Feb	2022
	hthly Programme Update (202112)-0_220125	1064	29-Aug-20 A	17-Apr-23	49	50	
		854	29-Aug-20 A	17-Apr-23			
Road Improvement Works Locat		854	29-Aug-20 A	17-Apr-23			
Construction Works CON10728C	Apply CNR for temporary diversion (2 page application & 2 page extension)	26		04-Dec-21			
CON10728C	Apply CNP for temporary diversion (2 nos. application & 2 nos. extension) Construct RW wall (RWC2 type 1a & 1 [Bay 2 to Bay 1])	20	29-Aug-20 A 04-Nov-20 A	19-Jan-22	_		
CON12110	Drainage & utilities works (RWC2 type 4, 6, 7, 8)	60	21-Jun-21 A	06-Jan-23	_		
CON10748	ELS works at RWC2 type 3 (7500 m3, 100 m3/d, 2 teams)	38	05-Jul-21 A	22-Nov-21			
CON12130	Road works (RWC2 type 4, 6, 7, 8)	60	26-Jul-21 A	21-Feb-23	_		
CON12134	Install stone facing for wall (RWC2 type 4, 6, 7, 8)	72	02-Aug-21 A	17-Apr-23	_		
ON11550	Construct piling foundation at FE1 Type 2 (12nos, 2d/no, 1 team)	24	19-Aug-21 A	29-Nov-21	—		
ON12356E	Construct 4nos. sewage manhole & sewage drainage diversion (near KS27 w	138	20-Aug-21 A	15-Feb-22			
ON12356F	Construct 4nos. storm manhole & strom drainage diversion (near KS27 west s	138	20-Aug-21 A	15-Feb-22			
ON10748C	(NCE144) Unforeseen rock boulders found at RWC2 type 3, near bay 21 to b	12	13-Sep-21 A	31-Dec-21			
ON10268	Trial pit excavation (RWC2 type 5)	60	21-Sep-21 A	02-Dec-21			
ON10750	Construct socket H-pile works (RWC2 type 3; 400nos, 3d/no, 4 teams)	300	13-Oct-21 A	02-Dec-22			
ON11328A	(CE[TBA]) Cable duct alignlemt identify on CT5 & SLG meeting	42	26-Oct-21 A	13-Dec-21			
ON12370A	(NCE179) Unforeseen ground condition obstructed sheet-pile installation at Ks	30	29-Oct-21 A	30-Dec-21			
ON10231B	(CE358) Prepare & subletting for watermain diversion design works; & PM acc	40	04-Nov-21 A	20-Dec-21			
DN10270	ELS to piling foundation pile cap (RWC2 type 5)	54	03-Dec-21	10-Feb-22			
DN10231C	(CE358) JV prepare & submit; PM review, comment & acceptance watermain	30	21-Dec-21	27-Jan-22			
DN12370B	(NCE179) Install sheet-pile works after obstruction removal (KS27 LT1) (id: CC	21	31-Dec-21	25-Jan-22			
DN10650A	(NCE148) Inclement weather 21/5/2021 to 20/6/2021 RWC2 type 1a, 1 & 2	12	20-Jan-22	05-Feb-22			
N12372	ELS works (KS27 east side)	60 40	26-Jan-22	09-Apr-22			i
DN10231D DN10650B	(CE358) Prepare & subletting for watermain diversion works; & PM acceptance (NCE153) Inclement weather 21/6/2021 to 20/7/2021 PW/C2 type 1a, 1 & 2	40	28-Jan-22 07-Feb-22	18-Mar-22			
DN10650B	(NCE153) Inclement weather 21/6/2021 to 20/7/2021 RWC2 type 1a, 1 & 2	12 90		19-Feb-22	-1		
N10390 N11550A	Construct pile cap (RWC2 type 5 [bay 46]) Gas Main Diversion Works	90 29	11-Feb-22 16-Feb-22	02-Jun-22 21-Mar-22	-1		
N11550A N10650C	Gas Main Diversion Works (NCE157) Inclement weather 21/7/2021 to 20/8/2021 RWC2 type 1a, 1 & 2	29 11	21-Feb-22	04-Mar-22	-1		
N1050C	Review temporary drainage system before year 2022 rain season (RIW1)	18	21-Feb-22 28-Feb-22	19-Mar-22	-1		
DN10231E	(CE358) Watermain diversion due to unforeseen ground condition (by WSD 8	14	19-Mar-22	04-Apr-22			
DN10652	Construct RW footing (RWC2 type 2)	60	21-Mar-22	06-Jun-22			
DN11552	Install sheet pile for pile cap construction (FE1-PC1b, 32m, 1m/d)	14	22-Mar-22	07-Apr-22			
DN10240	Existing drainage pipe diversion (lower stream)	14	06-Apr-22	25-Apr-22			
DN11554	ELS works for pile cap construction (FE1-PC1b, 32m, 1m/d)	36	08-Apr-22	25-May-22	_		
DN12410	Application for power supply & energization (KS27)	156	11-Apr-22	20-Oct-22	_		
DN12390	ELS works & construct subway footing (KS27 east side)	90	11-Apr-22	01-Aug-22	-		
ON10654	Construct RW wall (RWC2 type 2)	60	12-Apr-22	27-Jun-22			
ad Improvement Works Locat	ion 2 (RIW2)	313	28-Aug-21 A	05-Jul-22			
onstruction Works in Slope C3 (Portion B)	250	21-Oct-21 A	28-Jun-22			
DN20670C	ELS to RW bay 9 to bay 16 formation (due to unforeseen ground condition)	34	21-Oct-21 A	03-Jan-22			
ON20910	Construct RW bay 14 to bay 16 base (L=19m)	48	22-Oct-21 A	16-Dec-21			
ON20930	Construct RW bay 14 to bay 16 wall (L=19m)	48	02-Dec-21	29-Jan-22			
ON20790	Construct RW bay 9 to bay 13 base (L=30m) (due to unforeseen ground conc	66	31-Jan-22	25-Apr-22	E		
ON21010	Utilities & drainage works at Portion B (bay 3 to bay 8)	30	31-Jan-22	09-Mar-22			
ON20170	Fabrication of NB steel post - along slope side	70	09-Feb-22	19-Apr-22			1
ON20152	Review temporary drainage system before year 2022 rain season (RIW2)	18	28-Feb-22	19-Mar-22			
DN20810	Construct RW bay 9 to bay 13 wall (L=30m) (due to unforeseen ground condi	66	08-Mar-22	30-May-22			
DN21030	Utilities & drainage works at Portion B (bay 1 to bay 2)	30	10-Mar-22	14-Apr-22	4		
DN20774A	Soil nail works at RW3b (remaining area)	30	10-Mar-22	14-Apr-22	4		
N20990	Utilities & drainage works at Portion B (bay 9 to bay 13)	60	07-Apr-22	22-Jun-22	-		
DN21050	Utilities & drainage works at Portion B (bay 14 to bay 16)	30	19-Apr-22	25-May-22	-		
DN20190	Steel post along slope side delivery	14	20-Apr-22	03-May-22	-		
N20290	Fabrication of NB acoustic panels - along slope side	70	20-Apr-22	28-Jun-22			
nstruction Noise Semi-Enclosu		251	28-Aug-21 A	05-Jul-22			
N21656	(CE332) Construct piling fdn of SE2 (Bay9 to Bay12, stage 1 58nos. 1 team)	72	28-Aug-21 A	31-Jan-22			
N21962D	Utilities potection works (SE2 Bay 13 to 18)	16	17-Nov-21 A	04-Dec-21	-		
N21770	Remove piling platform at CT4	18	04-Jan-22	24-Jan-22			
N219661	ELS works to +174mPD Excavate trial trench, SLG meeting & UU portection works	24 30	15-Jan-22 25-Jan-22	15-Feb-22 03-Mar-22		· · · · · · · · · · · · · · · · · · ·	
DN21772 DN21656A	(NCE170) Inclement weather 21/9/2021 to 20/10/2021 at SE2 (Bay4 to Bay1:	30	25-Jan-22 04-Feb-22	11-Feb-22	-		
N21030A	TMLG Meeting on 11/2/2022 and TTA Drawing Approval	7	11-Feb-22*	11-Feb-22 18-Feb-22	-1		
N21658	(CE332) Construct piling fdn of SE2 (Bay9 to Bay12, stage 2 38nos. 1 team)	56	12-Feb-22	22-Apr-22	-1		
N219662	Excavate trial trench, SLG meeting & UU protection works (SE2 Bay13 to Bay	28	16-Feb-22	19-Mar-22	-		
DN219702	ELS works to (Bay19 to Bay21)	51	19-Feb-22	23-Apr-22	1		
N219702	Excavate trial trench, SLG meeting & UU protection works	45	26-Feb-22	23-Apr-22	1		
DN21774	Install pipe pile wall at CT4 road side (46nos, 2no/d 1 team + setup)	27	04-Mar-22	04-Apr-22	1	_	
DN21968	Construct piling fdn SE2 Bay13 to Bay18 (74nos, 2d/no. 2 teams + setup + uu	84	21-Mar-22	05-Jul-22	1		
DN21776	ELS works at CT4 (12nos. strut, 0.25no/d, 1 team + setup)	48	06-Apr-22	07-Jun-22	1		
d Improvement Works Locat		738	19-Jul-21 A	07-Dec-22			
nstruction Works		738	19-Jul-21 A	07-Dec-22			
neadouon frons				L		1	:
Actual Work		NE	/2017/03 Dev	elopment of	Anderson Road Quarry Site - Inves	tigation Design & Construction	<u>n</u>
Remaining Work	Davalanm	ont of Ar	darean Paad	Quarry Cita	Road - Improvement Works & Pede	etrian Connectivity Escilition	Norka P



vity ID	Activity Name	Duration	Start	Finish		F -1	2022
					Jan 49	Feb 50	Mar 51
CON31130	Cut slope works (CH115 to CH275) (L=160m, 24058m3, 65m3/d)	371	19-Jul-21 A	07-Dec-22			
CON31150	Construct RWD3 (CH60 to CH152)	150	09-Aug-21 A	18-Mar-22			
CON32410	Construct type 2 NB footing (CH44~CH52, 130m3, team 1)	150	16-Aug-21 A	05-Jul-22			
CON30170	Slope works at slope D1 (stage 4, 55% completed)	72	19-Aug-21 A	08-Dec-21			
CON30410F	JV prepare pipe pile wall design; ICE review & approval; PM review, comment	92	24-Aug-21 A	13-Jan-22			
CON30410E	(NCE096) Awaiting an instruction for treat the unforeseen pipe	12	02-Sep-21 A	27-Nov-21			
CON30490	Drainage & utilities works (bay 8 to bay 14)	60	29-Nov-21	12-Feb-22			
CON30390	Construct RWD1 (bay 8 to bay 13) utilities works & backfill (2 teams)	60	29-Nov-21	12-Feb-22			
CON30190	Slope works at slope D1 (stage 5, 70% completed)	72	09-Dec-21	09-Mar-22			
CON30510	Road works (bay 8 to bay 14)	60	22-Dec-21	08-Mar-22			
CON30412B	Install pipe pile wall (around 32nos. 1d/no.+ setup) (Bay 14b to Bay 16)	36	14-Jan-22	28-Feb-22			
CON31710	Construct footing, pier & pier head F1-4	144	26-Jan-22	25-Jul-22			
CON30660	Construct Twin Fresh Watermain CH100 to CH190	174	18-Feb-22	19-Sep-22			
CON30666	Construct Salt Watermain A near F1-3 (TKO Rd Slip Rd)	60	18-Feb-22	04-May-22			
CON30092	Review temporary drainage system before year 2022 rain season (RIW3)	18	28-Feb-22	19-Mar-22			
CON30412C	ELS works and shotcrete (Bay 14b to Bay 16)	12	01-Mar-22	14-Mar-22			
CON30330	Construct RWD1 (bay 1 to bay 7) utilities works & backfill (2 teams)	60	09-Mar-22	24-May-22			
CON30530	Drainage & utilities works (bay 1 to bay 7)	60	09-Mar-22	24-May-22			
CON30191	Slope works at slope D1 (stage 5a, 80% completed)	72	10-Mar-22	09-Jun-22			
CON30412D	Install UU support (Bay 14b to Bay 16)	6	15-Mar-22	21-Mar-22			
CON32430	Construct type 2 NB tie beam (CH44~CH52, 130m3, team 1)	150	21-Mar-22	21-Sep-22	_		
CON30412E	Pre-drill & construct mini pile at RWD1 (bay 14b) (10nos, 3.0d/no, 1 team)	30	22-Mar-22	29-Apr-22	1		
CON30550	Road works (bay 1 to bay 7)	60	01-Apr-22	17-Jun-22	1		
Pedestrian Connectivity Fa		284	24-May-21 A	07-May-22			
· · · · · · · · · · · · · · · · · · ·		284	24-May-21 A	07-May-22			
Construction Works							
CON42690	ABWF works @E11-FB2 & E11-FB4	107	24-May-21 A	24-Nov-21	-		
CON42710	ABWF works @E11-FB3 & E11-FB5	107	24-May-21 A	24-Nov-21	_		
CON42772	ABWF works @LT2 (Other than lift shaft area)	48	04-Aug-21 A	29-Nov-21	-		
CON42872	E&M works to PC-E11 @LT2 (Other than lift shaft area)	36	01-Sep-21 A	24-Nov-21	_		
CON42470	Erect steel frame E11-FB1, construct floor slab & side planter	48	13-Oct-21 A	08-Dec-21			
CON42950	Lifts installation works in E11-LT2	60	02-Nov-21 A	17-Jan-22	-		
CON42630	Construct covered-walkway between PC-E11 & BBI toilet	102	04-Nov-21 A	09-Mar-22			
CON42650	Install glass & window to lift tower no 1	21	10-Nov-21 A	03-Dec-21			
CON42570	Erect roof steel frame, gutter & corrugated metal sheet E11-FB1	42	18-Nov-21 A	08-Jan-22			
CON42790	E&M works to PC-E11 @E11-FB2 & E11-FB4	48	25-Nov-21	22-Jan-22			
CON42810	E&M works to PC-E11 @E11-FB3 & E11-FB5	48	25-Nov-21	22-Jan-22			
CON42732	ABWF works @LT1 (Other than lift shaft area)	48	18-Dec-21	18-Feb-22			
CON42930	Lifts installation works in E11-LT1	60	21-Dec-21	07-Mar-22			
CON42750	ABWF works @E11-FB1	60	22-Dec-21	08-Mar-22			
CON42850	E&M works to PC-E11 @E11-FB1	48	05-Jan-22	04-Mar-22			
CON42832	E&M works to PC-E11 @LT1 (Other than lift shaft area)	36	05-Jan-22	18-Feb-22			
CON42610A	Install fall arrest system on roof of footbridge	36	10-Jan-22	23-Feb-22			
CON42952	T&C to lift E11-LT2	30	18-Jan-22	24-Feb-22			
CON42774	Review temporary drainage system before year 2022 rain season (PC-E11)	18	28-Feb-22	19-Mar-22			
CON42970	T&C to lift E11-LT1	30	08-Mar-22	12-Apr-22			
CON42890	T&C and Statutory Inspection _PC-E11	24	06-Apr-22	07-May-22			
Pedestrian Connectivity Fa	acility (PC-E8)	527	26-Jul-21 A	29-Jan-23			
Construction Works		133	26-Jul-21 A	29-Jan-22			
CON40628A	Slope 326 drawing reviewing	36	26-Jul-21 A	06-Dec-21			
CON40650	Slope replacement works cycle 1 (slope 326)	18	13-Sep-21 A	18-Dec-21	1		
CON40710	Slope replacement works cycle 4 (slope 326)	15	13-Jan-22	29-Jan-22		1	
Works Under Section 7A	אין איזאיז א	365	30-Jan-22	29-Jan-23			
CON41970	Establishment Works for Landscape Softworks in Section 7 (Portion G)	365	30-Jan-22	29-Jan-23			
		240	30-Jan-22	29-Jan-23 03-Sep-22			
Pedestrian Connectivity Fa	achicy System A (STA)			· ·			
Construction Works		240	12-Nov-21 A	03-Sep-22			
CON50330	ABWF works (lift tower & staircase)	120	12-Nov-21 A	08-Apr-22			
CON50332	ABWF works (4 nos. lift shaft)	120	12-Nov-21 A	08-Apr-22			
CON50312A	Off site fabrication for footbridge steel frame & delivery to site	62	12-Nov-21 A	26-Jan-22			
CON50370	Install windows & louvers (SYA 1st & 2nd lift shaft)	60	17-Dec-21	03-Mar-22			
CON50492	E&M works (SYA 1st & 2nd lift shaft)	42	11-Jan-22	03-Mar-22			
CON50390	Install windows & louvers (SYA 3rd & 4th lift shaft)	60	25-Jan-22	08-Apr-22			
CON50270	Erect bridge steel frame for SYA	42	27-Jan-22	19-Mar-22			
CON50494	E&M works (SYA3rd & 4th lift shaft)	42	18-Feb-22	08-Apr-22			
CON50272	Review temporary drainage system before year 2022 rain season (Sys A)	18	28-Feb-22	19-Mar-22			
CON50410	Lifts installation works in SYA-LT1A & SYA-LT1B	60	04-Mar-22	19-May-22			
CON50310	Construct deck slab, planter wall and roofing for SYA	78	21-Mar-22	27-Jun-22			
CON50430	Lifts installation works in SYA-LT1C & SYA-LT2A	60	09-Apr-22	24-Jun-22			
CON50496	E&M works (Open area for lift tower & staircase)	120	09-Apr-22	03-Sep-22			
Pedestrian Connectivity Fa		372	21-Jun-21 A	20-Oct-22			
Construction Works		372	21-Jun-21 A	20-Oct-22			
		012	21-9011-21 A	20-000-22			
	Ι						
Actual Work		NE	E/2017/03 Dev	<u>elopment of </u>	Anderson Road Quarry Site - Inv	vestigation Design & Construction	<u>on</u>
Remaining Work	k Developm				Road - Improvement Works & Pe		
0				and your			
 Milestone 					3-Month Rolling Programme		
	I						



Activity ID	Activity Name	Duration	Start	Finish			2022	
					Jan	Feb	Mar	Apr
001/50170	Or an attraction on the state OV/D I T4	400	04 hrs 04 A	04 Mar 00	49	50	51	52
CON52170	Construct superstructure SYB-LT1	168	21-Jun-21 A	21-Mar-22				
CON51450A	(NCE156) Unforseen gound condition affected install sheet pile at SYB-PC1	130	28-Jul-21 A	22-Dec-21				
CON52110	Construct pier SYB-P3 (2 pour) & temporary LT1 support	42	08-Jan-22	01-Mar-22			-	
CON52150	Construct pier SYB-P5 (3 pour)	60	08-Jan-22	22-Mar-22				
CON51470	Excavate & install support at SYB-PC1 (108m3, 25m3/d, 1 team + 12d)	18	08-Jan-22	28-Jan-22				
CON51770	Construct pile cap SYB-PC1 (35m3)	36	29-Jan-22	15-Mar-22				
CON52230	Erect footbridge steel frame SYB-A1 to PC8 (A1 to P8)	18	29-Jan-22	22-Feb-22				
CON52250	Erect footbridge steel frame PC8 to PC7 (P8 to P7)	18	23-Feb-22	15-Mar-22				
CON52370	Construct deck slab, planter wall and roofing SYB-A1 to PC8 (A1 to P8)	30	23-Feb-22	29-Mar-22				
CON51592	Review temporary drainage system before year 2022 rain season (Sys B)	18	28-Feb-22	19-Mar-22		1		
CON51990	Construct pier SYB-P1 (2 pour)	42	16-Mar-22	10-May-22				
CON51810	Construct underground drainage pipe	177	16-Mar-22	20-Oct-22				
CON52390	Construct deck slab, planter wall and roofing PC8 to PC7 (P8 to P7)	30	16-Mar-22	23-Apr-22				
CON51170	Install glass & window @SYB-LT1	42	22-Mar-22	16-May-22				
CON52172	Construct R.C. desk P2 to LT1	48	22-Mar-22	23-May-22				
CON51930	Construct pier SYB-P4 (2 pour)	42	23-Mar-22	17-May-22				
CON51950	Construct pier SYB-P6 (3 pour)	72	23-Mar-22	22-Jun-22				
CON52650	ABWF works @ steel frame footbridge A1 to P8	72	30-Mar-22	29-Jun-22				1
CON53230	Application for power supply & energization (SYB)	156	30-Mar-22	10-Oct-22				
CON52990	E&M works @ steel frame footbridge A1 to P8	60	30-Mar-22	15-Jun-22				

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

Page 3 of 3



Contract 4 (ED/2020/02)

	Activity Code	Activity Name	Dur	Early	Early		Late	%	Total	Predecesso	Successors	Dec '21	I
1	ED202.1	Contract Period	1248d	Start 30/7/21	Finish 28/12/24		Finish 28/12/24	Compl	e Float 0d			28 5 1	2 19
3	ED202.1.02	Contract Duration		31/7/21			28/12/24		0d	2FS+1d	4		
5	ED202.2	Section of Works and Relevant Portions of Work		30/7/21			28/12/24		0d	210110			
5 6	ED202.2.01	Section of Works 1 - Portions 1a, 2a & 2b		30/8/21			14/12/23		0d				
11	ED202.2.01.005	Construction Duration for Portion 2a		30/8/21			13/12/23		0d	10	12		
13	ED202.2.01.007	Access date for Portion 2b	0d		14/12/21				0d	2	14,367		14/
14	ED202.2.01.008	Construction Duration for Portion 2b	730d		13/12/23				0d	13	15		
20	ED202.2.03	Section of Works 2 - Portion 8		30/7/21			29/7/23		0d				
22	ED202.2.03.002	Construction Duration for Portion 8		30/7/21			29/7/23		0d	21	23		
28	ED202.2.05	Section of Works 3 - Portions 1b, 3, 4, 5		30/7/21		30/7/21	30/7/23	15%	0d				
33	ED202.2.05.013	PMI 003 & 004 issued	62d	29/9/21			29/11/21		0d	32	34FS-1d,433FS-1d	♠ 29/11	
34	ED202.2.05.005	Construction Duration for Portion 3		29/11/21	30/7/23	29/11	30/7/23	9%	0d	33FS-1d	35	↓ ↓	
37	ED202.2.05.008	Construction Duration for Portion 4	670d	30/7/21	30/5/23	30/7/21	30/5/23	26%	0d	36	38		
9	ED202.2.05.010	Access date for Portion 5	0d	27/2/22		27/2/22	27/2/22	0%	0d	2	40,446	-	
0	ED202.2.05.011	Construction Duration for Portion 5	458d	27/2/22	30/5/23	27/2/22	30/5/23	0%	0d	39	41		
6	ED202.2.07	Section of Works 4 - Portions 6, 12	684d	30/7/21	13/6/23	30/7/21	13/6/23	15%	0d				-
7	ED202.2.07.001	Access date for Portion 6	0d	29/1/22	29/1/22	29/1/22	29/1/22	0%	0d	2	48,458		
8	ED202.2.07.002	Construction Duration for Portion 6	501d	29/1/22	13/6/23	29/1/22	13/6/23	0%	0d	47	49	_	
1	ED202.2.07.005	Construction Duration for Portion 12	684d	30/7/21	13/6/23	30/7/21	13/6/23	26%	0d	50	52		
7	ED202.2.09	Section of Works 5A - Portions 9, 10	699d	30/7/21	28/6/23	30/7/21	28/6/23	22%	0d				—
9	ED202.2.09.002	Construction Duration for Portion 9	638d	29/9/21	28/6/23	29/9/21	28/6/23	18%	0d	58	60		
2	ED202.2.09.005	Construction Duration for Portion 10	699d	30/7/21	28/6/23	30/7/21	28/6/23	25%	0d	61	63		
8	ED202.2.11	Section of Works 5B - Portion 11	487d	27/2/22	28/6/23	27/2/22	28/6/23	0%	0d				
9	ED202.2.11.001	Access date for Portion 11	0d	27/2/22	27/2/22	27/2/22	27/2/22	0%	0d	2	70,626		
0	ED202.2.11.002	Construction Duration for Portion 11	487d	27/2/22			28/6/23		0d	69	71	-	
0	ED202.2.14	Section of Works 7A - Portions 13a, 14	669d	30/7/21	29/5/23	30/7/21	29/5/23	15%	0d				-
1	ED202.2.14.001	Access date for Portion 13a	0d	29/1/22	29/1/22	29/1/22	29/1/22	0%	0d	2	82,646		
2	ED202.2.14.002	Construction Duration for Portion 13a	486d	29/1/22	29/5/23	29/1/22	29/5/23	0%	0d	81	83	-	
5	ED202.2.14.005	Construction Duration for Portion 14	669d	30/7/21	29/5/23	30/7/21	29/5/23	26%	0d	84	86	_	
1	ED202.2.16	Section of Works 7B - Portions 13b, 15	671d	27/2/22	29/12/23	27/2/22	29/12/23	0%	0d				
2	ED202.2.16.001	Access date for Portion 13b	0d	27/2/22	27/2/22	27/2/22	27/2/22	0%	0d	2	93,674		
3	ED202.2.16.002	Construction Duration for Portion 13b	671d	27/2/22	29/12/23	27/2/22	29/12/23	0%	0d	92	94	-	
5	ED202.2.16.004	Access date for Portion 15	0d	27/2/22	27/2/22	27/2/22	27/2/22	0%	0d	2	96	1	
96	ED202.2.16.005	Construction Duration for Portion 15	671d	27/2/22	29/12/23	27/2/22	29/12/23	0%	0d	95	97	-	
10	ED202.2.20	Section of Works 9 - Portion 17	671d	27/2/22	29/12/23	27/2/22	29/12/23	0%	0d				
11	ED202.2.20.001	Access date for Portion 17	0d	27/2/22	27/2/22	27/2/22	27/2/22	0%	0d	2	112,720		
12	ED202.2.20.002	Construction Duration for Portion 17	671d	27/2/22	29/12/23	27/2/22	29/12/23	0%	0d	111	113		
18	ED202.2.22	Section of Works 10 - All Tree Protection and Preservation Works	s 883d	30/7/21	29/12/23	30/7/21	29/12/23	20%	0d				
20	ED202.2.22.002	All Tree Protection and Preservation Work Duration for Section 10	883d	30/7/21	29/12/23	30/7/21	29/12/23	20%	0d	119	121		
22	ED202.3	Preliminaries	1248d	30/7/21	28/12/24	30/7/21	28/12/24	35%	0d				-
	t Start Date: 30 July 2021	Task Milestone ♦					Critical Tas						



weight 中国水利电力对外有限公司 China International Water & Electric Corp.

CEDD Contract No. ED/2020/02 Development of Anderson Road Quarry Site – Infrastructure, Greening and Landscape Works Revised Works Programme : January 2022

				Nev			ogramm	le.Ja	nuary z	022					
D	Activity Code	Activity Name	Dur	Early Start	Early Finish	Late Start	Late Finish	% Compl	Total	Predecesso	Successors		Dec '21 8 5 /	12 10	26
123	ED202.3.01	Establishment of Commercial/Organization	226d	_	12/3/22	30/7/21		81%	84d				<u>, , , , , , , , , , , , , , , , , , , </u>	12 19	_20
156	ED202.3.01.033	Video script for Project Video Film	180d	30/7/21	25/1/22	30/7/21	25/1/22	64%	0d	2		Ц			
157	ED202.3.01.034	Employment of Construction Industry Council's Graduates (min. 4 graduates)	180d	30/7/21	25/1/22	30/7/21	25/1/22	64%	0d	2					
158	ED202.3.01.035	Nomination of Treatment process specialist, Design Engineer, and Independent Checking Engineer (ICE)	30d	7/2/22	12/3/22	29/4/22	4/6/22	0%	69d	237SS	238	-			
180	ED202.3.03	Procurements of Major Materials	430d	15/2/22	20/4/23	20/3/22	7/11/23	0%	33d						
187	ED202.3.03.007	Procurement of Raise Planter Type A&B	90d	15/2/22	15/5/22	20/3/22	17/6/22	0%	33d	2SS+200d	188				
197	ED202.3.04	Programme	12390	30/7/21	19/12/24	30/7/21	28/12/24	15%	9d			H			
203	ED202.3.04.006	Implementation of Programme Management and Monthly Reporting	11450	1/11/21	19/12/24	1/11/21	28/12/24	7%	9d	202	4			_	
224	ED202.3.06	Contractor's Design	659d	30/7/21	19/5/23	30/7/21	4/10/23	13%	138d			Η			—
226	ED202.3.06.002	Internal Review & Submission Contractor's Design - Architectural & Structural	30d	28/10/21	26/11/21	28/10	26/11/21	100%	0d	225	227				
227	ED202.3.06.003	PM Review & AIP Contractor's Design - Architectural	30d	27/11/21	26/12/21	27/11	26/12/21	100%	0d	225,226	228				•
228	ED202.3.06.004	Re-submission Contractor's Design - Architectural & Structural	90d	27/12/21	26/3/22	27/12	26/3/22	0%	0d	227	229				-
237	ED202.3.06.013	Prepare Contractor's Design - Underground Water Treatment Plant	90d	7/2/22	7/5/22	7/3/22	4/6/22	0%	28d	2SS+192d	239,238,158SS	-			
246	ED202.3.07	Contractor's Design [Enhancement on Architectural Design & Associated Works]	450d	30/7/21	22/10/22	30/7/21	27/10/22	27%	5d			H		-	
248	ED202.3.07.002	Prepare & Submission Preliminary Arch., Design	90d	28/9/21	26/12/21	28/9/21	31/12/21	70%	5d	247	249				•
249	ED202.3.07.003	PM Review & AIP Preliminary Architectural Design	30d	27/12/21	25/1/22	1/1/22	30/1/22	0%	5d	248	250	-			—
250	ED202.3.07.004	Vetting of design through public engagement activities	60d	26/1/22	26/3/22	31/1/22	31/3/22	0%	5d	249	251	-			
255	ED202.3.08	Method Statements & Temporary Works	120d	30/7/21	26/11/21	30/7/21	1/9/22	58%	279d						
262	ED202.3.08.007	Preparation & submission of generic method statement of elevated walkway construciton	120d	30/7/21	26/11/21	5/5/22	1/9/22	0%	279d	2	679				
267	ED202.3.09	BIM Deliverable	12480	30/7/21	28/12/24	30/7/21	28/12/24	17%	0d			Η			
272	ED202.3.09.005	Nomination of staff or subcontractor to attend BIM skill training courses under the pre approved list of the CITF managed by the CIC	120d	30/7/21	26/11/21	31/8/24	28/12/24	0%	1128d	2					
273	ED202.3.09.006	Collaboration and Model Sharing	60d	28/10/21	26/12/21	28/10	22/1/22	50%	27d	269FS+30d	274				•
274	ED202.3.09.007	Monthly Coordination meeting & Submission of monthly BIM progress reports & Submission of 4D Simulation	10980	27/12/21	28/12/24	27/12	28/12/24	2%	0d	273	275FS-60d,4,276FS-	2			•
280	ED202.4	Work Area	12480	30/7/21	28/12/24	30/7/21	28/12/24	11%	0d			H			
283	ED202.4.03	CRE Site office Construction Works	90d	28/9/21	26/12/21	28/9/21	23/1/22	90%	28d	282	285,284			_	
284	ED202.4.04	Completion of CRE Site office Construction Works	0d	24/1/22	24/1/22	24/1/22	24/1/22	0%	0d	283	285				
285	ED202.4.05	CRE Site office Mobilization & Maintenance	10500	24/1/22	8/12/24	13/2/22	28/12/24	0%	20d	283,284	4,288				
287	ED202.4.07	Maintenance Duration for Works Area	1247c	31/7/21	28/12/24	31/7/21	28/12/24	14%	0d	286FS+1d	288				
289	ED202.4.09	Setting up Contractor's Project office	90d	28/9/21	26/12/21	28/9/21	26/12/21	100%	0d	2	290				-
290	ED202.4.10	Contractor Site office Maintenance	10500	24/1/22	8/12/24	24/1/22	8/12/24	0%	0d	289	4,288	-			
291	ED202.5	Construction Works	10390	30/7/21	28/12/24	30/7/21	28/12/24	6%	0d			H			
292	ED202.5.01	Section of Works 1 - Portions 1a, 1b, 2b	697d	30/8/21	13/12/23	30/8/21	13/12/23	3%	0d			H			
293	ED202.5.01.001	Portion 1a	556d	17/2/22	13/12/23	17/2/22	13/12/23	0%	0d						
294	ED202.5.01.001.001	Preparation & submission of MS, Temp., works, associated plans & docs	42d	30/7/21	17/9/21	17/2/22	7/4/22	0%	0d	2	295				
316	ED202.5.01.002	Portion 2a	697d	30/8/21	13/12/23	30/8/21	13/12/23	3%	0d			H		+	
320	ED202.5.01.002.004	Engineer's AIP of MS, Temp., works, plans & associated docs	18d	11/11/21	1/12/21	11/11	1/12/21	100%	0d	319	321,324,322			<u> </u>	
	t Start Date: 30 July 2021 ate: 30 July 2021	Task Milestone 🔶	Summ	ary 🛡		-	Critical Ta	sk 🗾							
Jpdate	ed on : 23 January 2022						Page 2/5								

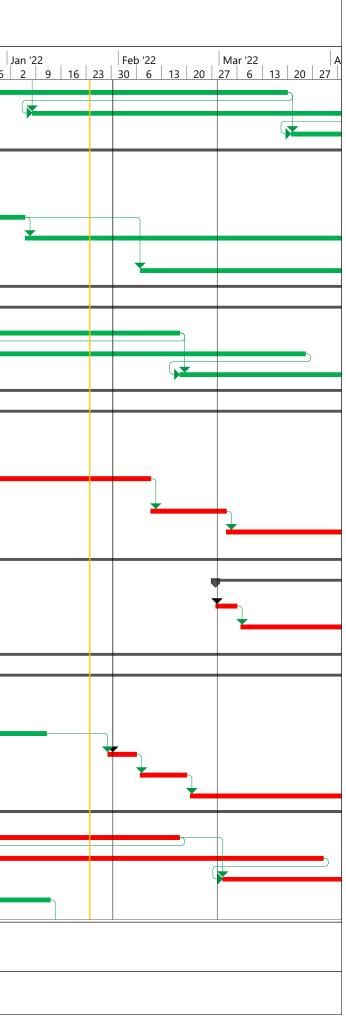


中国水利电力对外有限公司 CTG China International Water & Electric Corp.

CEDD Contract No. ED/2020/02 Development of Anderson Road Quarry Site – Infrastructure, Greening and Landscape Works Revised Works Programme : January 2022

C	Activity Code	Activity Name	Dur	Early Start	Early Finish	Late Start	Late Finish	% Comple	Total	Predecesso	Successors	Dec '21 28 5 12 19 26
321	ED202.5.01.002.005	Excavation and Construction Drainage System	90d	2/12/21	19/3/22	15/12		0%	11d	318,320,260	323FS-30d,322FS-60	28 5 12 19 26
322	ED202.5.01.002.006	Excavation and Construction of Catchpits + U channel	90d	8/1/22	25/4/22	21/1/22	9/5/22	0%	11d	318,320,260	323FS-30d,324	
323	ED202.5.01.002.007	CCTV inspection, testing and commissioning of Drainage Lines	42d	21/3/22	10/5/22	2/4/22	23/5/22	0%	11d	321FS-30d,	327	
364	ED202.5.01.003	Portion 2b	666d	2/10/21	8/12/23	2/10/21	13/12/23	7%	4d			
366	ED202.5.01.003.002	Engineer's AIP of MS, Temp., works, plans & associated docs	18d	22/11/21	11/12/21	22/11	11/12/21	100%	0d	365	367	
367	ED202.5.01.003.003	Provision of site access [137 days after starting date as per Contract]	6d	14/12/21	20/12/21	14/12	20/12/21	100%	0d	13,366	368	
368	ED202.5.01.003.004	Mobilization & Site Clearance	12d	21/12/21	5/1/22	21/12	5/1/22	100%	0d	367	369,372,371FS+26d	L
369	ED202.5.01.003.005	Hard landscaping work for Island - placement of boulders, soil placement and planters construction	90d	6/1/22	22/4/22	6/1/22	27/4/22	5%	4d	368	370	
371	ED202.5.01.003.007	Construction of artificial lake	82d	7/2/22	14/5/22	1/4/22	9/7/22	0%	46d	368FS+26d	373,378	
389	ED202.5.03	Section of Works 2 - Portion 8	596d	30/7/21	17/7/23	30/7/21	29/7/23	10%	11d			
390	ED202.5.03.001	Portion 8	596d	30/7/21	17/7/23	30/7/21	29/7/23	10%	11d			
395	ED202.5.03.001.005	Excavation for Drainage Works	90d	2/11/21	17/2/22	2/11/21	21/3/22	40%	27d	392,394	397FS-30d,396FS-60	
396	ED202.5.03.001.006	Construction of Drainage Works	90d	7/12/21	24/3/22	7/12/21	7/4/22	30%	11d	392,394,395	397FS-30d	·
397	ED202.5.03.001.007	CCTV inspection, testing and commissioning of Drainage Works	60d	18/2/22	29/4/22	3/3/22	13/5/22	0%	11d	395FS-30d,	399,398	
418	ED202.5.05	Section of Works 3 - Portions 1b, 3, 4, 5	607d	30/7/21	29/7/23	29/11	29/7/23	3%	0d			
432	ED202.5.05.002	Portion 3	506d	29/11/21	29/7/23	29/11	29/7/23	7%	0d			
433	ED202.5.05.002.001	Provision of site access	6d	29/11/21	4/12/21	29/11	4/12/21	100%	0d	33FS-1d	434	_
434	ED202.5.05.002.002	Mobilization & Site Clearance	12d	6/12/21	18/12/21	6/12/21	18/12/21	100%	0d	433	435	
435	ED202.5.05.002.003	Preparation & submission of MS, Temp., works, associated plans & docs	42d	20/12/21	9/2/22	20/12	9/2/22	67%	0d	434	436	+
436	ED202.5.05.002.004	Engineer AIP of MS, Temp., works, plans & associated docs	18d	10/2/22	2/3/22	10/2/22	2/3/22	0%	0d	435	437	
437	ED202.5.05.002.005	Installation of chain-link fencing + Provision of temporary drainage system	158d	3/3/22	7/9/22	3/3/22	7/9/22	0%	0d	436	438,443FS+2d	
441	ED202.5.05.003	Portion 4	529d	30/7/21	26/4/23	10/10	30/5/23	0%	28d			
445	ED202.5.05.004	Portion 5	381d	28/2/22	30/5/23	28/2/22	30/5/23	0%	0d			
446	ED202.5.05.004.001	Provision of site access [212 days after starting date as per Contract]	6d	28/2/22	5/3/22	28/2/22	5/3/22	0%	0d	39	447,448	
447	ED202.5.05.004.002	Installation of chain-link fencing + + Provision of temporary drainage system	135d	7/3/22	15/8/22	7/3/22	15/8/22	0%	0d	446	449,448FS-30d	
454	ED202.5.07	Section of Works 4 - Portions 6, 12	568d	30/7/21	13/6/23	30/7/21	13/6/23	8%	0d			
455	ED202.5.07.001	Portion 6	491d	1/11/21	13/6/23	1/11/21	13/6/23	7%	0d			
456	ED202.5.07.001.001	Preparation & submission of MS, Temp., works, associated plans & docs	42d	1/11/21	18/12/21	1/11/21	18/12/21	100%	0d	2	457	
457	ED202.5.07.001.002	Engineer's AIP of MS, Temp., works, plans & associated docs	18d	20/12/21	11/1/22	20/12	11/1/22	100%	0d	456	458	*
458	ED202.5.07.001.003	Provision of site access [183 days after starting date as per Contract]	6d	29/1/22	5/2/22	29/1/22	5/2/22	0%	0d	47,457	459	
459	ED202.5.07.001.004	Mobilization & Site Clearance	12d	7/2/22	19/2/22	7/2/22	19/2/22	0%	0d	458	460	
460	ED202.5.07.001.005	Excavation and Construction of Drainage Works	90d	21/2/22	8/6/22	21/2/22	8/6/22	0%	0d	459	461FS-30d	
474	ED202.5.07.002	Portion 12	568d	30/7/21	13/6/23	30/7/21	13/6/23	8%	0d			
479	ED202.5.07.002.005	Excavation for Drainage Works	90d	2/11/21	17/2/22	2/11/21	17/2/22	5%	0d	476,478	481FS-24d,480FS-56	
480	ED202.5.07.002.006	Construction of Drainage Works	90d	11/12/21	29/3/22	11/12	29/3/22	0%	0d	476,478,479	481FS-24d	
481	ED202.5.07.002.007	CCTV inspection, testing and commissioning of Drainage Works	60d	2/3/22	12/5/22	2/3/22	12/5/22	0%	0d	479FS-24d,	488,487	
482	ED202.5.07.002.008	Excavation and Construction of Waterlines for fresh water & flushing water and connection to existing tee-off	60d	2/11/21	12/1/22	16/2/22	27/4/22	0%	88d	476,478	483	
	Start Date: 30 July 2021 ate: 30 July 2021	Task Milestone ♦	Summ	ary 🛡		-	Critical Tas	sk 💻				

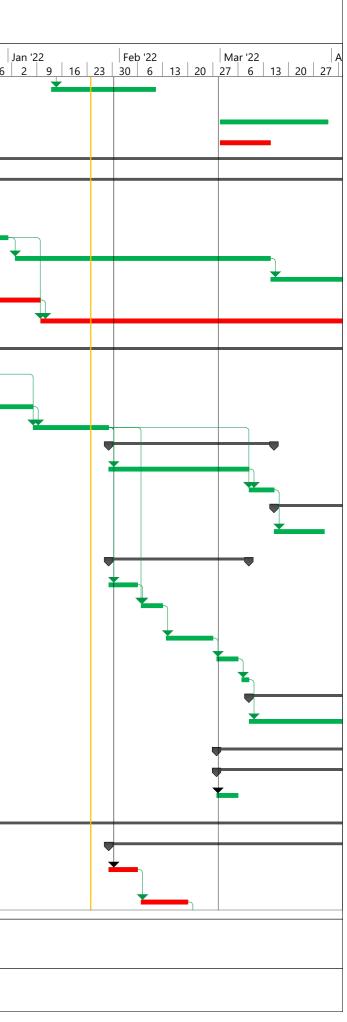
Revision:0



Open Lina International Water & Electric Corp.

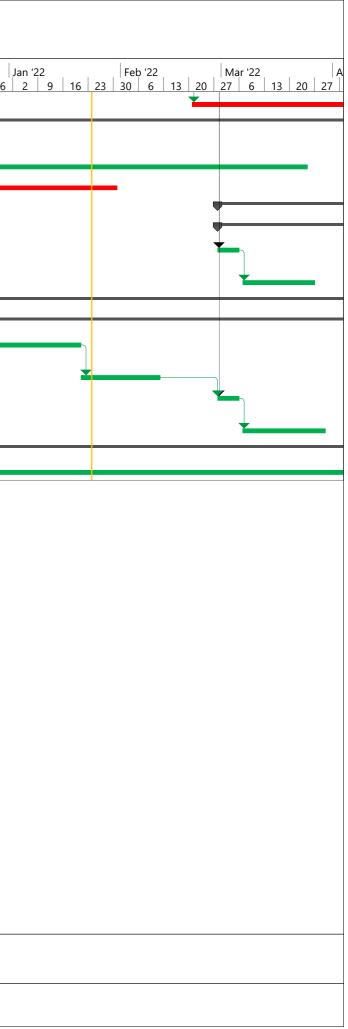
CEDD Contract No. ED/2020/02 Development of Anderson Road Quarry Site – Infrastructure, Greening and Landscape Works Revised Works Programme : January 2022

)	Activity Code	Activity Name	Dur	Early	Early	Late	Late	% Comm	Total	Predecesso	Successors	Dec '21
483	ED202.5.07.002.009	Testing and Commissioning of Waterlines for fresh water and flushing water	24d	Start 13/1/22	Finish 10/2/22			Comple 0%	88d	482	485	28 5 12 19
484	ED202.5.07.002.020	Application for Irrigation system (WW0046 Part I & II)	30d	1/3/22	31/3/22	27/4/22	26/5/22	0%	57d		485	
494	ED202.5.07.002.019	PMI 005 : Additional GI at Portion 12	12d	1/3/22	15/3/22	1/3/22	15/3/22	0%	0d			
499	ED202.5.09	Section of Works 5A - Portions 9, 10	581d	30/7/21	28/6/23	30/7/21	28/12/24	16%	458d			
500	ED202.5.09.001	Portion 9 [Sitting Out Area C & R2-1 Footpath]	530d	29/9/21	28/6/23		28/6/23		0d			
503	ED202.5.09.001.003	Preparation & submission of MS, Temp., works, associated plans & docs	42d	22/10/21		22/10			0d	502	504	
504	ED202.5.09.001.004	Engineer AIP of MS, Temp., works, plans & associated docs	18d	10/12/21	31/12/21	10/12	31/12/21	100%	0d	503	505,508	
505	ED202.5.09.001.005	Excavation and construction of drainage line and catchpits	60d	3/1/22	14/3/22	10/1/22	21/3/22	0%	6d	502,504	506	
506	ED202.5.09.001.006	CCTV inspection, testing and commissioning of Drainage Lines	30d	15/3/22	19/4/22	22/3/22	26/4/22	0%	6d	505	510,509	
507	ED202.5.09.001.017	Application for Irrigation system (WW0046: Part I & II)	30d	11/12/21	10/1/22	11/12	10/1/22	0%	0d		508	_
508	ED202.5.09.001.007	Excavation and construction of draw pits and ducting & Irrigation system	90d	10/1/22	26/4/22	10/1/22	26/4/22	0%	0d	502,504,50	7510,509,517	
518	ED202.5.09.002	Portion 10	581d	30/7/21	28/6/23	30/7/21	28/12/24	21%	458d			
522	ED202.5.09.002.004	Preparation & submission of MS, Temp., works, associated plans & docs	32d	16/11/21	22/12/21	16/11	22/1/22	50%	25d	521	524,523	
523	ED202.5.09.002.005	Time Risk Allowance	12d	23/12/21	7/1/22	23/12	7/1/22	100%	0d	522	524	
524	ED202.5.09.002.006	Engineer's AIP of MS, Temp., works, plans & associated docs	18d	8/1/22	28/1/22	8/1/22	31/1/22	72%	2d	522,523	571,570,526,527	
525	ED202.5.09.002.009	Slope Works at Feature No. 11NE-D/C998 (409m)	38d	29/1/22	15/3/22	29/1/22	28/12/24	<mark>42%</mark>	849d			
526	ED202.5.09.002.009.01	Construction of concrete maintenance staircase with hand railings	32d	29/1/22	8/3/22	29/1/22	20/12/24	50%	849d	521,524	527	
27	ED202.5.09.002.009.02	Installation of display sign for slope registration no. x2	6d	9/3/22	15/3/22	21/12	28/12/24	0%	849d	526,524,52	0 529	-
528	ED202.5.09.002.012	Slope Works at Feature No. 11NE-D/FR657 (63m)	50d	16/3/22	14/5/22	16/3/22	28/12/24	24%	799d			
529	ED202.5.09.002.012.01	Demolition and removal of disused water pipe and sprinkler system	12d	16/3/22	29/3/22	16/3/22	29/3/22	100%	0d	527	530	
569	ED202.5.09.002.017	Slope Works at Feature No. 11NE-D/C979 (45m)	32d	29/1/22	8/3/22	2/2/22	10/3/22	0%	2d			
570	ED202.5.09.002.017.01	Time Risk Allowance	6d	29/1/22	5/2/22	2/2/22	8/2/22	0%	2d	521,524	571	
571	ED202.5.09.002.017.02	Demolition and removal of disused water pipe and sprinkler system	6d	7/2/22	12/2/22	9/2/22	15/2/22	0%	2d	521,524,57	0572	
572	ED202.5.09.002.017.03	Construction of concrete berm	12d	14/2/22	26/2/22	16/2/22	1/3/22	0%	2d	571	573	
573	ED202.5.09.002.017.04	Installation of hand railings	6d	28/2/22	5/3/22	2/3/22	8/3/22	0%	2d	572	574	
574	ED202.5.09.002.017.05	Installation of display sign for slope registration no. x1	2d	7/3/22	8/3/22	9/3/22	10/3/22	0%	2d	573	576	
575	ED202.5.09.002.018	Slope Works at Feature No. 11NE-D/C947 (420m)	68d	9/3/22	28/5/22	11/3/22	31/5/22	<mark>0%</mark>	2d			
576	ED202.5.09.002.018.01	Demolition and removal of disused water pipe and sprinkler system	24d	9/3/22	6/4/22	11/3/22	8/4/22	0%	2d	574	577	
524	ED202.5.11	Section of Works 5B - Portion 11	391d	28/2/22	12/6/23	11/4/23	28/6/23	0%	14d			
625	ED202.5.11.001	Portion 11	391d	28/2/22	12/6/23	11/4/23	28/6/23	0%	14d			
526	ED202.5.11.001.001	Provision of site access [212 days after starting date as per Contract]	6d	28/2/22	5/3/22	11/4/23	17/4/23	0%	339d	69	627	
644	ED202.5.14	Section of Works 7A - Portions 13a, 14	556d	30/7/21	29/5/23	30/7/21	29/5/23	21%	0d			
645	ED202.5.14.001	Portion 13a	404d	29/1/22	29/5/23	29/1/22	29/5/23	0%	0d			
646	ED202.5.14.001.001	Provision of site access [183 days after starting date as per Contract]	6d	29/1/22	5/2/22	29/1/22	5/2/22	0%	0d	81,259	647	
647	ED202.5.14.001.002	Mobilization & Site Clearance	12d	7/2/22	19/2/22	7/2/22	19/2/22	0%	0d	646	648	
	Start Date: 30 July 2021 ate: 30 July 2021	Task Milestone ♦	Summ	ary 🛡		-	Critical Ta	sk 📩		_		



U TG	e 中国水利电, China International W	力对外有限公司 ater & Electric Corp. Development of	Ande			rry Site		struct	ure, Gr		I Landscape Worl	KS	
C	Activity Code	Activity Name	Dur	Early Start	Early Finish	Late Start	Late Finish	% Compl	Total eFloat	Predecesso	Successors	Dec '21 28 5 12	-
648	ED202.5.14.001.003	(G.I Works) Geotechnical Instrumentation Installation	60d	21/2/22	3/5/22	21/2/22		0%	Od	657,647,65	9651,649,650		
655	ED202.5.14.002	Portion 14	423d	30/7/21	20/12/22	30/7/21	29/5/23	36%	133d			<u> </u>	
660	ED202.5.14.002.006	Time Risk Allowance	30d	2/11/21	6/12/21	2/11/21	6/12/21	100%	0d	659	661		
661	ED202.5.14.002.007	Cutting & filling of slopes to formation level {Site G-2}	90d	7/12/21	24/3/22	17/5/22	31/8/22	0%	133d	256,257,66	0662		
667	ED202.5.14.002.013	PMI 001 : Additional GI at Portion 14	90d	15/10/21	31/1/22	15/10	31/1/22	93%	0d				•
672	ED202.5.16	Section of Works 7B - Portions 13b, 15	560d	28/2/22	29/12/23	7/3/22	29/12/23	4%	0d				
673	ED202.5.16.001	Portion 13b & 15	560d	28/2/22	29/12/23	7/3/22	29/12/23	4%	0d				
674	ED202.5.16.001.001	Provision of site access [212 days after starting date as per Contract]	6d	28/2/22	5/3/22	7/3/22	12/3/22	0%	6d	92	675		
675	ED202.5.16.001.002	Mobilization & Site Clearance	18d	7/3/22	26/3/22	14/3/22	2/4/22	0%	6d	674	677,689,685,697,690	3	
716	ED202.5.20	Section of Works 9 - Portion 17	629d	1/12/21	23/12/23	1/12/21	29/12/23	4%	4d				•
717	ED202.5.20.001	Portion 17	629d	1/12/21	23/12/23	1/12/21	29/12/23	4%	4d				•
718	ED202.5.20.001.001	Preparation & submission of MS, Temp., works, associated plans & docs	42d	1/12/21	20/1/22	1/12/21	20/1/22	100%	0d	2	719		•
719	ED202.5.20.001.002	Engineer's AIP of MS, Temp., works, plans & associated docs	18d	21/1/22	11/2/22	21/1/22	3/3/22	11%	17d	718	720		
720	ED202.5.20.001.003	Provision of site access [212 days after starting date as per Contract]	6d	28/2/22	5/3/22	4/3/22	10/3/22	0%	4d	111,719	721		
721	ED202.5.20.001.004	Slope inspection & assessment work & Tree Survey	20d	7/3/22	29/3/22	11/3/22	2/4/22	0%	4d	720	723,722		
812	ED202.5.22	Section of Works 10 - All Tree Protection and Preservation Works	736d	30/7/21	29/12/23	30/7/21	29/12/23	20%	0d				
814	ED202.5.22.002	All Tree Protection and Preservation Work Duration for Section 8	880d	30/7/21	26/12/23	30/7/21	29/12/23	20%	3d	813	815		

Project Start Date: 30 July 2021 Data Date: 30 July 2021	Task 🗖	Milestone 🔶	Summary	Critical Task	
Updated on : 23 January 2022 Revision:0				Page 5/5	

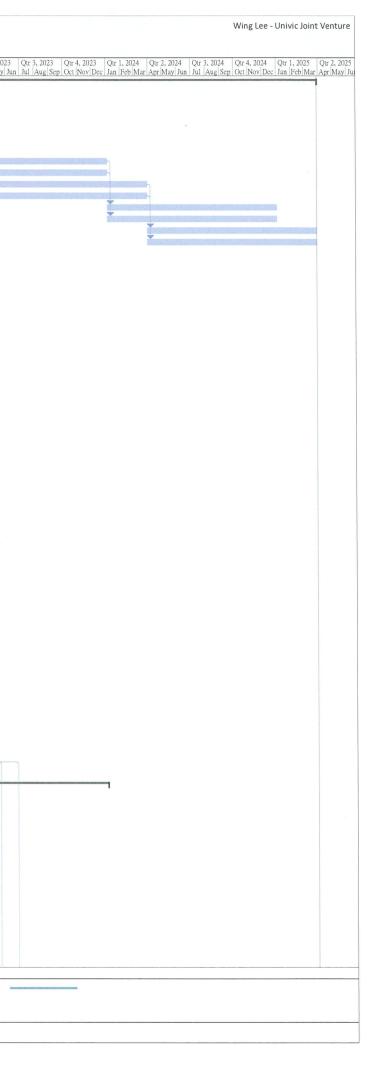




Contract 5 (NE/2019/02)

Contract No. ED/2019/02
Development of Anderson Road Quarry Site -
Remaining Pedestrian Connectivity Facilities Works

ID	TaslT	ask Name	Duration	Start	Finish	Predecessors	Successors	1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 4, 2022 Qtr 1, 2022 Qtr 2, 2022 Qtr 3, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023
	Moc							Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May J
1	P L	Development of Anderson Road Quarry Site - Remaining Pedestrian Connectivity Facilities Works	1461 days	Tue 30/3/21	Sat 29/3/25			
2	ن د ا	Contract Starting Date	1 day	Tue 30/3/21	Tue 30/3/21			
	E me	Possession of Site (Portion 1a, 2, 3a & 4b)	1 day	Tue 30/3/21	Tue 30/3/21		16,35,18,20,22,43,4,36,37,38,39,40,41,5,6,7,8,9,10	
	E	Possession of Site (Portion 1b)	1 day	Fri 30/7/21	Fri 30/7/21	3	70,272	
5		Possession of Site (Portion 3b)	1 day	Fri 30/7/21	Fri 30/7/21	3	222	Š
6	E ma	Possession of Site (Portion 4a)	1 day	Fri 30/7/21	Fri 30/7/21	3	244	Š
7	-	Construction Period of Section 1	1009 days	Wed 31/3/21	Wed 3/1/24	3	11	
8	-	Construction Period of Section 2	1009 days	Wed 31/3/21	Wed 3/1/24	3	12	
9	-	Construction Period of Section 3	1095 days	Wed 31/3/21	Fri 29/3/24	3	13	
10		Construction Period of Section 4	1095 days	Wed 31/3/21	Fri 29/3/24	3	14	
11		Construction Period of Section 1A	365 days	Thu 4/1/24	Thu 2/1/25	/		
12	-	Construction Period of Section 2A Construction Pperiod of Section 3A	365 days 365 days	Thu 4/1/24 Sat 30/3/24	Thu 2/1/25 Sat 29/3/25	8 9		
14		Construction Period of Section 4A	365 days	Sat 30/3/24	Sat 29/3/25	10		
15		Preliminary Work	310 days	Wed 31/3/21	Thu 3/2/22	10		
16	6	Mobilization of Site Accommodation	12 days	Wed 31/3/21	Sun 11/4/21	3	62,119,174,209,240,243,24,64	
17	-	Major Sub-contractor Submission	250 days	Wed 31/3/21	Sun 5/12/21			
18	-	Submit Proposed Landscaping Sub-contractor	7 days	Wed 31/3/21	Tue 6/4/21	3	19	
19	100 g	Accept Proposed Landscaping Sub-contractor	7 days	Wed 7/4/21	Tue 13/4/21	18	46,49	
20	1	Submit Proposed Traffic Consultant	7 days	Wed 31/3/21	Tue 6/4/21	3	21	
21	88 <u>8</u>	Accept Proposed Traffic Consultant	7 days	Wed 7/4/21	Tue 13/4/21	20	178	
22 23		Submit Proposed Independent Checking Engineer	14 days	Wed 31/3/21	Tue 13/4/21	3	23	
23	-	Accept Proposed Independent Checking Engineer Submit Proposed Ground Investigation Sub-contractor	14 days 14 days	Wed 14/4/21 Mon 12/4/21	Tue 27/4/21 Sun 25/4/21	22 16	25	
24		Accept Proposed Ground Investigation Sub-contractor	14 days 14 days	Mon 26/4/21	Sun 25/4/21 Sun 9/5/21	24	25 26,52	
26		Submit Proposed Piling Sub-contractor	28 days	Mon 10/5/21	Sun 9/5/21 Sun 6/6/21	25	20,32	
27		Accept Proposed Piling Sub-contractor	14 days	Mon 7/6/21	Sun 20/6/21	26	55,28,29	
28	-	Submit & Accept Proposed E&M Sub-contractor	56 days	Mon 21/6/21	Sun 15/8/21	27	58	
29	82	Submit & Accept Proposed Lift/Escalator Sub-contractor	56 days	Mon 21/6/21	Sun 15/8/21	27	30,31,58	
30		Submit & Accept Bearing Sub-contractor	56 days	Mon 16/8/21	Sun 10/10/21	29	59	
31	-	Submit & Accept Proposed Movement Joint Sub-contractor		Mon 16/8/21	Sun 10/10/21	29	32,33,34,59	
32		Submit & Accept Proposed Steelwork Sub-contractor Submit & Accept Proposed Waterproofing Sub-contractor	56 days 56 days	Mon 11/10/21 Mon 11/10/21		31 31	60	
34		Submit & Accept Proposed Road Marking Sub-contractor	56 days	Mon 11/10/21 Mon 11/10/21		31		
35		Contractural Submission	45 days	Wed 31/3/21	Fri 14/5/21	3		
36	-	Initial Photo Record	7 days	Wed 31/3/21	Tue 6/4/21	3		
37		Noise Mitigation Plan	7 days	Wed 31/3/21	Tue 6/4/21	3		
38	1	Safety Management Plan	30 days	Wed 31/3/21	Thu 29/4/21	3		
39	-	Environmental Managenet Plan	30 days	Wed 31/3/21	Thu 29/4/21	3		
40	-	Waste Management Plan Initial Condition Survey	30 days	Wed 31/3/21 Wed 31/3/21	Thu 29/4/21	3	65 101 177 045	
41		Technical Submission	45 days 310 days	Wed 31/3/21 Wed 31/3/21	Fri 14/5/21 Thu 3/2/22	2	65,121,177,245	
43		Prepare Method Statement of Initial Survey	14 days	Wed 31/3/21	Tue 13/4/21	3	44	
44	-	Review & Resubmit MS of Initial Survey	6 days	Wed 14/4/21	Mon 19/4/21	43	45	
45	1	Acceptance of MS of Iniial Survey	7 days	Tue 20/4/21	Mon 26/4/21	44	63,120,176,242	A CONTRACTOR OF A CONTRACTOR O
46	-	Prepare Method Statement of Tree Felling	14 days	Wed 14/4/21	Tue 27/4/21	19	47	
47	-	Review & Resubmit MS of Tree Felling	7 days	Wed 28/4/21	Tue 4/5/21	46	48	
48	-	Acceptance of MS of Tree Felling	14 days	Wed 5/5/21 Wed 14/4/21	Tue 18/5/21	47 19	66,122,179,246,273	X
50		Prepare Method Statement of Tree Transplanting Review & Resubmit MS of Tree Transplanting	14 days 14 days	Wed 14/4/21 Wed 28/4/21	Tue 27/4/21 Tue 11/5/21	49	50 51	
51		Acceptance of MS of Tree Transplanting	14 days	Wed 12/5/21	Tue 25/5/21	50	123	
52		Prepare Method Statement of Ground Investigation	14 days	Mon 10/5/21	Sun 23/5/21	25	53	
53	-	Review & Resubmit MS of Ground Investigation	14 days	Mon 24/5/21	Sun 6/6/21	52	54	
54	-	Acceptance of MS of Ground Investigation	14 days	Mon 7/6/21	Sun 20/6/21	53	70,127,185,248	
55	181 <u>1</u> 3	Prepare Method Statement of Piling Works	28 days	Mon 21/6/21	Sun 18/7/21	27	56	
56 57	-	Review & Resubmit MS of Piling Works	14 days	Mon 19/7/21 Mon 2/8/21	Sun 1/8/21 Sun 15/8/21	55 56	57	
58	83 87	Acceptance of MS of Piling Works Submit & Accept of Lift & E&M Submission	14 days 60 days	Mon 2/8/21 Mon 16/8/21	Thu 14/10/21	28,29	129,186,72 87,142,191,218,253,277	
59		Submit & Accept of Ent & Letty Submission Submit & Accept bearing & MJ Submission	60 days	Mon 11/10/21		30,31	89,144,192,220,257,281	
60		Submit & Accept Steelwork submission	60 days	Mon 6/12/21	Thu 3/2/22	32	98,153,222,283	
61	-	Section 1 - E5 Escalator (Portion 1a & 1b)	997 days	Mon 12/4/21	Wed 3/1/24			
62	₩	Site Clearance	30 days	Mon 12/4/21	Tue 11/5/21	16		100%
63	1	Initial Survey	21 days	Tue 27/4/21	Mon 17/5/21	45	65	100%
64	13	Coordination with Housing Authority for Access	36 days	Mon 12/4/21	Mon 17/5/21	16	65	100%
65 66	1	Erection of Site Hoarding Tree Felling	21 days 59 days	Tue 18/5/21 Tue 8/6/21	Mon 7/6/21 Thu 5/8/21	63,41,64 65,48	66 67	
67		Trial Pit Excavation	7 days	Tue 6/7/21	Mon 12/7/21	65,48 66	68,69	100%
68	1	Utilities Diversion	21 days	Tue 13/7/21	Mon 2/8/21	67	70,71	100%
69		Installation of Monitoring & Instrumentation Point	21 days	Tue 13/7/21	Mon 2/8/21	67		
70	100	Ground Investigation & install piezometer	45 days	Tue 3/8/21	Thu 16/9/21	68,54,4		100%
71	=	Fell Additional Trees (EWN001)	45 days	Tue 3/8/21	Thu 16/9/21	68	72	
72	-	Form piling platform on Existing slope	102 days	Fri 17/9/21	Mon 27/12/21	71,57	74	
73	-	Piling Works	190 days	Tue 28/12/21		70	75.70	
74 75		At Pile Cap E5-PC3 (12 nrs of 610mm PSH Piles) At Pile Cap E5-PC2 (16 nrs of 610mm PSH Piles)	50 days	Tue 28/12/21		72 74	75,79	
75		At Pile Cap E5-PC2 (16 nrs of 610mm PSH Piles) At Pile Cap E5-PC1 (16 nrs of 610mm PSH Piles)	70 days 70 days	Wed 16/2/22 Wed 27/4/22		74 75	76,80 77	
	->		, o augo		100 311122	1.5		
D		Task	Summary		In	active Milestone	Duration-only	Start-only E External Milestone \diamond Manual Progress
	t: Contr Tue 31/	ract No. ED/2019/02	Project Summa	ry l		active Summary	Manual Summary Rollup	Finish-only Deadline
Date:	1 UC 31/	Milestone	Inactive Task			anual Task	Manual Summary	External Tasks Progress
								Page 1

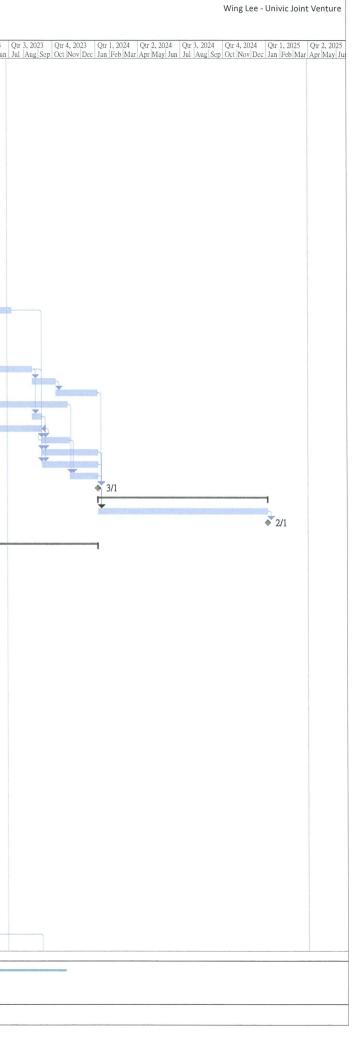


Contract No. ED/2019/02

Development of Anderson Road Quarry Site -Remaining Pedestrian Connectivity Facilities Works

First Programme

Rema	ining Peo	destrian Connectivity Facilities Works							
ID	Tasl Ta Moc	isk Name	Duration	Start	Finish	Predecessors	Successors		1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2022 Qtr 2, 2022 Qtr 3, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023 Qtr 2, 2023 Qtr 2, 2024 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023
77	WIOC	Loading Test of Piling	30 days	Wed 6/7/22	Thu 4/8/22	76	81		Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
78	-	Excavation	230 days	Wed 16/2/22	Mon 3/10/22				
79		For Pile Cap E5-PC3	75 days	Wed 16/2/22	Sun 1/5/22	74	83		
80	100 A	For Pile Cap E5-PC2	75 days	Wed 27/4/22	Sun 10/7/22	75	84		
81		For Pile Cap E5-PC1		Fri 5/8/22	Mon 3/10/22	77	85		
82	*	Pile Cap Construction		Mon 2/5/22	Tue 22/11/22	70	01		
83 84	-	For Pile Cap E5-PC3	60 days	Mon 2/5/22	Thu 30/6/22		91		
85		For Pile Cap E5-PC2 For Pile Cap E5-PC1	60 days 50 days	Mon 11/7/22 Tue 4/10/22	Thu 8/9/22 Tue 22/11/22	80 81	87 88		
86		Construction of Piers	135 days	Fri 9/9/22	Sat 21/1/23	01	00		
87		For Pier E5-P2	42 days	Fri 9/9/22	Thu 20/10/22	84.58	91		
88		For Pier E5-P1	60 days	Wed 23/11/22		85	89		
89		Installation of Bearing	7 days	Sun 22/1/23	Sat 28/1/23	88,59	92		
90		Construction of Escalator Trough	160 days	Fri 21/10/22	Wed 29/3/23				
91		From PC3 - PC2	60 days	Fri 21/10/22	Mon 19/12/22	87,83	95		
92	1	From PC2 - PC1	60 days	Sun 29/1/23	Wed 29/3/23	89	96		
93		Installation of Escalator	285 days	Sat 23/7/22	Wed 3/5/23				
94		Procument & Delivery of Escalator Material	150 days	Sat 23/7/22	Tue 20/12/22		00000		
95 96	-	From PC3 - PC2 From PC2 - PC1	35 days	Tue 20/12/22	Mon 23/1/23	91	98,94SF		
90		Ordering of steel frame, roofing panels & fall arrest system	35 days 120 days	Thu 30/3/23 Thu 5/1/23	Wed 3/5/23 Thu 4/5/23	92	98,106,101 98		
98		Erection of Canopy	60 days	Fri 5/5/23	Mon 3/7/23	96,95,60,97	109		
99		Design Submission and Approval of A&A Works	300 days	Thu 5/5/22	Tue 28/2/23	50,55,00,57	100		
100	87.	Connection of Existing lift tower	60 days	Wed 1/3/23	Sat 29/4/23	99	101		
101		Installation of Movement Joint	14 days	Thu 4/5/23	Wed 17/5/23	96,100	103		
102	E ang	Ordering of balustrades, barriers & architectural features	120 days	Wed 18/1/23	Wed 17/5/23		103		
103	1	Finishing Work	90 days	Thu 18/5/23	Tue 15/8/23	101,102	107,110,111,1	04	
104	1	Remove existing soil nail	50 days	Wed 16/8/23	Wed 4/10/23	103	105		
105	-	Backfill pile caps & Reinstate existing Slope & Retaining wall		Thu 5/10/23	Tue 2/1/24	104	113		
106	mg.	Telemetry & Power Supply System	180 days	Thu 4/5/23	Mon 30/10/23		112		
107		Construction of Pillar Box	21 days	Wed 16/8/23	Tue 5/9/23	103	109,110,111		
108	-	Procument & Delivery of E&M Material	150 days	Sun 9/4/23	Wed 6/9/23	109SF	112 10900		
110		E & M Installation & Lighting Installation Drainage & Misc. Road Works	60 days 120 days	Wed 6/9/23 Wed 6/9/23	Sat 4/11/23 Wed 3/1/24	98,107 107,103	112,108SF 113		
111		Landscaping Works	120 days 120 days	Wed 6/9/23	Wed 3/1/24 Wed 3/1/24	107,103	113		
112		Testing & Commissioning	60 days	Sun 5/11/23	Wed 3/1/24	109,106	113		
113	100	Section 1 Completion	0 days	Wed 3/1/24	Wed 3/1/24	112,110,105,111	115		
114		Section 1A - Establishment Works (Portion 1a & 1b)	365 days	Thu 4/1/24	Thu 2/1/25	,,,			
115		Establishment Works	365 days	Thu 4/1/24	Thu 2/1/25	113	116		
116	-	Section 1A Completion	0 days	Thu 2/1/25	Thu 2/1/25	115			
117	10 A								
118		Section 2 - E6 Escalator (Portion 2)	997 days	Mon 12/4/21	Wed 3/1/24	17			
119 120	1	Site Clearance	30 days	Mon 12/4/21	Tue 11/5/21	16	101.104		
120	9	Initial Survey Erection of Site Hoarding	18 days 24 days	Tue 27/4/21	Fri 14/5/21	45	121,124 122,123		100%
121		Tree Felling	24 days 21 days	Sat 15/5/21 Tue 8/6/21	Mon 7/6/21 Mon 28/6/21	120,41 121,48	122,125		
123		Tree Transplanting	88 days	Tue 8/6/21	Fri 3/9/21	121,40	125		100%
124	1 mg	Coordination with HD for access & facilities relocation	45 days	Sat 15/5/21	Mon 28/6/21	121,51	125		100%
125		Take up park facilities & Furniture	21 days	Tue 29/6/21	Mon 19/7/21	122,124	126		100%
126	N 1887	Installation of Monitoring & Instrumentation Point	12 days	Tue 20/7/21	Sat 31/7/21	125			100%
127	1	Ground Investigation	45 days	Sat 4/9/21	Mon 18/10/21		129		100%
128	88 <u>7</u>	Piling Works	200 days	Tue 19/10/21	Fri 6/5/22				
129	23	At Pile Cap E6-PC3 (12 nrs of 610mm PSH Piles)	60 days	Tue 19/10/21	Fri 17/12/21	127,57	130,134		Textores_
130	-	At Pile Cap E6-PC2 (16 nrs of 610mm PSH Piles)	80 days	Sat 18/12/21	Mon 7/3/22	129	131,135		
131		At Pile Cap E6-PC1 (16 nrs of 610mm PSH Piles)	60 days	Tue 8/3/22	Fri 6/5/22	130	132		
132 133	-	Loading Test of Piling	30 days	Sat 7/5/22	Sun 5/6/22	131	136		
135	1973,	Excavation	230 days	Sat 18/12/21	Thu 4/8/22	120	120		
134		For Pile Cap E6-PC3 For Pile Cap E6-PC2	60 days 75 days	Sat 18/12/21 Tue 8/3/22	Tue 15/2/22 Sat 21/5/22	129 130	138 139		
136		For Pile Cap E6-PC1	60 days	Mon 6/6/22	Thu 4/8/22	132	139		
137		Pile Cap Construction	220 days	Wed 16/2/22	Fri 23/9/22		110		
138		For Pile Cap E5-PC3	50 days	Wed 16/2/22	Wed 6/4/22	134	146		
139	-	For Pile Cap E5-PC2	50 days	Sun 22/5/22	Sun 10/7/22	135	142		
140	-	For Pile Cap E5-PC1	50 days	Fri 5/8/22	Fri 23/9/22	136	143		
141	-	Construction of Piers	135 days	Mon 11/7/22	Tue 22/11/22				
142		For Pier E5-P2	42 days	Mon 11/7/22	Sun 21/8/22	139,58	146		
143	3	For Pier E5-P1	60 days	Sat 24/9/22	Tue 22/11/22		144		
144	-	Installation of Bearing	7 days		Tue 29/11/22	143,59	147		
145 146		Construction of Escalator Trough	160 days	Mon 22/8/22		140 100	150		
140		From PC3 - PC2 From PC2 - PC1	60 days	Mon 22/8/22 Wed 30/11/22	Thu 20/10/22	142,138 144	150 151		
147		Installation of Escalator	60 days 285 days	Tue 24/5/22	Sat 28/1/23 Sat 4/3/23	144	101		
140		Procument & Delivery of Escalator Material	150 days	Tue 24/5/22	Fri 21/10/22	150SF			
150		From PC3 - PC2	35 days	Fri 21/10/22	Thu 24/11/22		153,149SF		
150		From PC2 - PC1	35 days	Sun 29/1/23	Sat 4/3/23	140	153,156,163		
152		Ordering of steel frame, roofing panels & fall arrest system	120 days	Sat 5/11/22	Sat 4/3/23		153		
Projec	t: Contra	act No. ED/2019/02	Summary		Ina	active Milestone		Duration-only	Start-only E External Milestone \diamond Manual Progress -
	Tue 31/8	0.1	Project Summary	y D	0 Ina	ctive Summary	0	Manual Summary Rollup	Finish-only Deadline
	0	Milestone 🔶	Inactive Task		Ma	inual Task		Manual Summary	External Tasks Progress
									Page 2
									1 azt =



Contract No. ED/2019/02 Development of Anderson Road Quarry Site -Remaining Pedestrian Connectivity Facilities Works

Kemaning Feue	Strian Connectivity Facilities works						
ID Tasl Task	x Name	Duration	Start	Finish	Predecessors	Successors	1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 4, 2021 Qtr 1, 2022 Qtr 2, 2022 Qtr 3, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023 Qtr
153 Moc	Erection of Canopy	60 days	Sun 5/3/23	Wed 3/5/23	151,60,150,152	163	Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul
153	Design Submission and Approval of A&A Works	300 days	Wed 20/10/21		151,00,150,152	155	
155	Connection of Existing lift tower	60 days	Tue 16/8/22	Fri 14/10/22	154	155	
156	Installation of Movement Joint	14 days	Sun 5/3/23	Sat 18/3/23	151,155	158	
157	Ordering of balustrades, barriers & architectural features	14 days 120 days	Sat 19/11/22	Sat 18/3/23	101,100	158	
158	Finishing Work	90 days	Sun 19/3/23	Fri 16/6/23	156,157	158	
	Backfill pile caps	60 days	Sat 17/6/23	Tue 15/8/23	158	159,100	
	Telemetry & Power Supply System	180 days	Sat 17/6/23	Wed 13/12/23		101	
	Construction of Pillar Box	21 days	Wed 16/8/23	Tue 5/9/23	158	163,164	
						163,164	
	Procument & Delivery of E&M Material	150 days	Sun 9/4/23 Wed 6/9/23	Wed 6/9/23 Sat 4/11/23	163SF	167 16085	
1.61	E & M Installation & Lighting Installation Drainage & Misc. Road Works	60 days	Wed 6/9/23 Wed 6/9/23	Sat 4/11/23 Sat 4/11/23	151,161,153	167,162SF 165,166	
	Reinstatement of park facilities	60 days	Sun 5/11/23	Wed 3/1/24	161 164	168	
	Landscaping Works	60 days	Sun 5/11/23 Sun 5/11/23		164		
	Testing & Commissioning	60 days	Sun 5/11/23 Sun 5/11/23	Wed 3/1/24 Wed 3/1/24	164	168 168	
	Section 2 Completion	60 days	Wed 3/1/24	Wed 3/1/24 Wed 3/1/24		170	
	Section 2 A - Establishment Work (Portion 2)	<i>0 days</i> 365 days	Thu 4/1/24	Thu 2/1/25	165,167,166	170	
1	Establishment Works	365 days	Thu 4/1/24 Thu 4/1/24	Thu 2/1/25	168	171	
	Section 2A Completion	0 days	<i>Thu 2/1/25</i>	<i>Thu 2/1/25</i>	170	1/1	
171	Section 2A Completion	Uuays	1114 2/1/25	1114 2/1/25	170		
	Section 3 - E7 Bridge (Portion 3a & 3b)	1083 days	Mon 12/4/21	Fri 29/3/24			
175	Site Clearance	15 days	Mon 12/4/21	Mon 26/4/21	16	176	100%
175	E7 Lift Tower	1081 days	Wed 14/4/21	Fri 29/3/24	10	170	100%
176	Initial Survey	18 days	Tue 27/4/21	Fri 14/5/21	174,45	177	→ 100%
177	Erection of Site Hoarding	21 days	Sat 15/5/21	Fri 4/6/21	176,41	179,180	
178	TTA for Site Entrance & Bus Stop Relocation	52 days	Wed 14/4/21	Fri 4/6/21	21	179,180	
179							100%
	Tree Felling Trial Pit Excavation	93 days	Sat 5/6/21	Sun 5/9/21 Tue 22/6/21	177,48,178	182FF 181	€ 75%
		18 days	Sat 5/6/21		177		100%
181	Installation of Monitoring & Instrumentation Point	100 days	Wed 23/6/21	Thu 30/9/21	180 170FF	187 185EE 5 davia 182EE 5 davia 184EE 5 davia	50%
182	Fell Additional Trees (P-T00260; PMI No.8)	42 days	Mon 26/7/21	Sun 5/9/21	179FF	185FF+5 days,183FF+5 days,184FF+5 days	
	Street Light Relocation	42 days	Sat 31/7/21	Fri 10/9/21	182FF+5 days	186	
	Diversion of existing staircase Installation Piezometer & Ground Investigation	42 days	Sat 31/7/21	Fri 10/9/21	182FF+5 days	104	
		35 days	Sat 7/8/21 Sat 11/9/21	Fri 10/9/21 Tue 9/11/21	54,182FF+5 days 57,183,185	186 187	
	Form piling platform on Existing slope Piling Work (68 nrs of 323mm Mini-piles)	60 days 180 days	Wed 10/11/21		186,181	187	
	Loading Test		Mon 9/5/22	Tue 7/6/22	180,181	189	
	-	30 days					
	Excavation of pile cap	90 days	Wed 8/6/22	Mon 5/9/22	188	190	
190	Pile Cap Construction	45 days	Tue 6/9/22	Thu 20/10/22		191	
191	Construction of Lift Tower (9 Pours)	210 days	Fri 21/10/22	Thu 18/5/23	190,58	192,194SS+150 days,195	
192	Installation of Bearing	7 days	Fri 19/5/23	Thu 25/5/23	191,59	225	
193 🗄 🖏	Fabrication of Lourves & Glazing	150 days	Fri 21/10/22	Sun 19/3/23		194	
194	Installation of Lourves & Glazing	120 days	Mon 20/3/23	Mon 17/7/23		3 198,202SS+60 days,200,203	
195 🔤	Telemetry & Power Supply System	180 days	Fri 19/5/23	Tue 14/11/23		196	
196	Construction of Pillar Box	21 days		Tue 5/12/23	195		
197 🔤	Procument & Delivery of Lift Material	150 days	Sat 18/2/23	Tue 18/7/23	198SF		
198	Lift Installation	150 days	Tue 18/7/23	Thu 14/12/23		207,197SF	9
199 🔤	Procument & Delivery of E&M Material	150 days	Sat 18/2/23	Tue 18/7/23	200SF		
200	E & M Installation & Lighting Installation	196 days	Tue 18/7/23		194	207,199SF	9
201 🖪 🖏	Ordering of balustrades, barriers & architectural features	120 days	Thu 19/1/23	Thu 18/5/23		202	
202	Finishing Work of Lift Tower	120 days	Fri 19/5/23	Fri 15/9/23	194SS+60 days,201	204	
203	Waterpoofing & Installation of Fall Arrest System	60 days	Tue 18/7/23	Fri 15/9/23	194		
204 🔤	Removal of scaffolding	46 days	Sat 16/9/23	Tue 31/10/23		205	
205 🚌	Backfill and Reinstate existing slope	90 days	Wed 1/11/23	Mon 29/1/24	204	206	
206 🚎	Underground drainage & water main works	60 days	Tue 30/1/24	Fri 29/3/24	205	234	
207	Testing & Commissioning	60 days	Tue 30/1/24	Fri 29/3/24	200,198	234	
208	E7 Pier	1083 days	Mon 12/4/21	Fri 29/3/24			
209	Prepare & Endorse TTA scheme by TMLG	60 days	Mon 12/4/21	Thu 10/6/21	16	210	100%
210	Application of Excavation Permit	180 days	Fri 11/6/21	Tue 7/12/21	209	211	030%
211	Implementation of TTA at carriageway	14 days	Wed 8/12/21	Tue 21/12/21	210	212	
212	Installation of Monitoring & Instrumentation Point	7 days		Tue 28/12/21		213	
213	Trial Pit Excavation	21 days		Tue 18/1/22	212	214,215	
214	Relocation of street light post	21 days	Wed 19/1/22		213	216	
215	Utilities Diversion	150 days	Wed 19/1/22		213	216	
216	Excavation of footing	180 days	Sat 18/6/22	Wed 14/12/22		217	
217	Construction of Footing E7-F2	45 days		Sat 28/1/23	216	218	
218	Construction of Pier E7-P1 (4 Poues)	90 days	Sun 29/1/23	Fri 28/4/23	217,58	220,222,219	
219	Allowable for achievement of concrete strength	27 days	Sat 29/4/23	Thu 25/5/23	217,58	225	
220	Installation of Bearing	7 days	Sat 29/4/23	Fri 5/5/23	218,59	225	
221	Submit & obtain BD's approval for A&A Works at Carpark		Mon 31/10/22		222SF	And And and	
222	Forming support for steel bridge at Carpark	7 days	Sat 29/4/23	Fri 5/5/23	218,60,5	225,221SF	
223	Ordering of steel frame, roofing panels & fall arrest system		Sat 29/4/23 Sat 26/11/22	Sat 25/3/23	210,00,0	225,2213F	
223	Fabrication of Steel Bridge	60 days	Mon 27/3/23	Fri 26/5/23	225SF,223		
225	Erection of Steel Bridge	28 days	Fri 26/5/23	Thu 22/6/23	220,222,219,192	226,224SF	
	Election of Dicer Diluge		Fri 23/6/23	Thu 22/0/23 Thu 27/7/23	225	220,2243F 227,230	
226	Construction of Concrete slab	35 dave			tele)	LL1,LJU	
226	Construction of Concrete slab	35 days				228 231	
226 3 227 3	Construction of Concrete slab Construction of Roofing System	35 days 60 days	Fri 28/7/23	Mon 25/9/23		228,231	
227	Construction of Roofing System	60 days		Mon 25/9/23	226		Print colu
227 Res	Construction of Roofing System t No. ED/2019/02	60 days	Fri 28/7/23	Mon 25/9/23	226 active Milestone	Duration-only	Start-only E External Milestone I Manual Progress
227	Construction of Roofing System t No. ED/2019/02 Task Split Split	60 days Summary Project Summa	Fri 28/7/23	Mon 25/9/23	226 active Milestone active Summary	Duration-only J	Finish-only] Deadline
227 Res	Construction of Roofing System t No. ED/2019/02	60 days	Fri 28/7/23	Mon 25/9/23	226 active Milestone	Duration-only	
227 Res	Construction of Roofing System t No. ED/2019/02 Task Split Split	60 days Summary Project Summa	Fri 28/7/23	Mon 25/9/23	226 active Milestone active Summary	Duration-only Manual Summary Rollup Manual Summary	Finish-only] Deadline



)evel	opment	ED/2019/02 of Anderson Road Quarry Site - destrian Connectivity Facilities Works	<u>First Programme</u>								
)	Tasł Ta Moc	isk Name	Duration	Start	Finish	Predecessors	Successors	1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2022 Qtr 2, 2022 Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Ju			
228	WICC	E & M Installation & Lighting Installation	90 days	Tue 26/9/23	Sun 24/12/23	227	234	reb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Ju			
229	E mg	Design Submission and Approval of A&A Works	300 days	Sat 1/10/22	Thu 27/7/23		230				
30		Connection of Existing car park	60 days	Fri 28/7/23	Mon 25/9/23	226,229	250				
31	1	Installation of Movement Joint	7 days	Tue 26/9/23	Mon 2/10/23	227	232				
32	82	Finishing work of bridge deck	120 days	Tue 3/10/23	Tue 30/1/24	231	233				
33		Landscaping Works	59 days	Wed 31/1/24	Fri 29/3/24	232	234				
34		Section 3 Completion	0 days	Fri 29/3/24	Fri 29/3/24	206,207,228,233	236				
35		Section 3A - Establishment Works (Portion 3a & 3b)	365 days	Sat 30/3/24	Sat 29/3/25	200,207,220,233	250				
36		Establishment Works	365 days	Sat 30/3/24	Sat 29/3/25	234	237				
37		Section 3A Completion	0 days	Sat 29/3/25	Sat 29/3/25	236	251				
38		bouldn 3/1 Completion	0 days	Dul 2715125	Dat 2715125	250					
39		Section 4 - E10 Bridge (Portion 4a & 4b)	1083 days	Mon 12/4/21	Fri 29/3/24						
10	1	Site Clearance	30 days	Mon 12/4/21	Tue 11/5/21	16	242	100%			
11		E10 Lift Tower	1083 days	Mon 12/4/21	Fri 29/3/24	10	212	10070			
-	1	Initial Survey	14 days	Wed 12/5/21	Tue 25/5/21	240,45		100%			
43		Prepare & Endorse TTA scheme by TMLG	60 days	Mon 12/4/21	Thu 10/6/21	16	244				
44	1	Implement TTA to form site entrance	1 day	Thu 26/8/21	Thu 26/8/21	243.6	244	100%			
45	100	Erection of Site Hoarding				Not concern a co		<u>h</u> 100%			
46	*		14 days	Fri 27/8/21	Thu 9/9/21	244,41	246	Ŏ <u>↓</u>			
	-	Tree Felling	14 days	Fri 10/9/21	Thu 23/9/21	245,48	249SS,247SS+9 days,248SS				
47	-	Installation of Monitoring & Instrumentation Point	14 days	Sun 19/9/21	Sat 2/10/21	246SS+9 days		2m			
	E ang	Installation Piezometer & Ground Investigation	23 days	Fri 10/9/21	Sat 2/10/21	246SS,54		X			
49	-	Fell Additional Trees (EWN001)	23 days	Fri 10/9/21	Sat 2/10/21	246SS	250				
50	1 3	Excavation of Footing E10-FT1	240 days	Sun 3/10/21	Mon 30/5/22	249	251				
51	-	Construction of Footing	45 days	Tue 31/5/22	Thu 14/7/22	250	252				
52	1	Erection of Tower Crane	45 days	Fri 15/7/22	Sun 28/8/22	251	253				
53	1	Construction of Lift Tower (12 pours)	300 days	Mon 29/8/22	Sat 24/6/23	252,58	254SS+30 days,256SS+240 days,257				
54		Backfill of E10-PT1	60 days	Wed 28/9/22	Sat 26/11/22	253SS+30 days	258				
55	E	· Fabrication of Lourves & Glazing	150 days	Sat 26/11/22	Mon 24/4/23		256				
56	-	Installation of Lourves & Glazing	120 days	Wed 26/4/23	Wed 23/8/23	253SS+240 days,255	261,265SS+60 days,263,266				
57	-	Installation of Bearing	7 days	Sun 25/6/23	Sat 1/7/23	253,59	286				
58	803	Telemetry & Power Supply System	180 days	Sun 27/11/22	Thu 25/5/23	254	259				
59	-	Construction of Pillar Box	21 days	Fri 26/5/23	Thu 15/6/23	258	263				
60		Procument & Delivery of Lift Material	150 days	Mon 27/3/23	Thu 24/8/23	261SF	all contract.				
61		Lift Installation	90 days	Thu 24/8/23	Tue 21/11/23	256	267,260SF				
62		Procument & Delivery of E&M Material	150 days	Mon 27/3/23	Thu 24/8/23	263SF					
63		E & M Installation & Lighting Installation	160 days	Thu 24/8/23	Tue 30/1/24	256,259	270,262SF				
64		Ordering of balustrades, barriers & architectural features	120 days	Sat 25/2/23	Sat 24/6/23	200,200	265				
65		Finishing Work of Lift Tower	140 days	Sun 25/6/23	Sat 11/11/23	256SS+60 days,264	267				
66		Waterpoofing & Installation of Fall Arrest System	60 days	Thu 24/8/23	Sun 22/10/23	25655+00 days,204	20.				
.00		Removal of scaffolding	30 days		Thu 21/12/23	265.261	268				
168		Ground Level Drainage & water main laying	40 days	Fri 22/12/23	Tue 30/1/24	267	269				
69		Reinstatement and Misc. Roadwork		Wed 31/1/24	Fri 29/3/24		295				
			59 days			268					
70	-	Testing & Commisioning	59 days		Fri 29/3/24	263	295				
71	-	Pier & Abutment	<u>973 days</u>	Sat 31/7/21	Fri 29/3/24						
272	-	Form Haul Road	90 days	Sat 31/7/21	Thu 28/10/21	4	273	€ and a second			
273		Tree Felling	14 days	Fri 29/10/21	Thu 11/11/21		274				
74		Excavation of Footing E10-FT2	120 days	Fri 12/11/21	Fri 11/3/22	273	278,275				
275		Excavation of Footing E10-FT3	150 days	Sat 12/3/22	Mon 8/8/22	274	276				
276	889 <u>7</u>	Construction of Footing E10_FT3	45 days	Tue 9/8/22	Thu 22/9/22	275	277				
277	807 <u>3</u>	Construction of Abutment on FT3	90 days	Fri 23/9/22	Wed 21/12/22	276,58	281,283				
278	-	Construction of Footing E10-FT2	30 days	Sat 12/3/22	Sun 10/4/22	274	279				

278

279

281,60,277

286SF,284

286

292

293

000

280,281,283,257

269,270,289,294

280

286

286.283

285

286,282SF

287,285SF

288,291

289,292

295

291

292

293

294

295

297

200

Sat 9/7/22

Tue 2/5/23

Sun 2/7/23

Sat 29/7/23

Sat 2/9/23

Sat 2/9/23

Sun 3/3/24

Fri 29/3/24

Fri 29/3/24

Sat 29/3/25

Set 20/2/25

Wed 1/11/23 287

Mon 19/2/24 288

Wed 1/11/23 287,290

Wed 8/11/23 288,291

Thu 22/12/22 Wed 28/12/22 277,59

Thu 29/12/22 283SF

90 days

27 days

7 days

20 days

60 days

28 days

35 days

60 days

110 days

300 days

60 days

116 days

26 days

0 days

265 day

365 days

7 days

Mon 11/4/22

Sat 2/7/22

Tue 3/1/23

Wed 3/5/23

Sun 2/7/23

Sun 30/7/23

Sun 3/9/23

Thu 2/11/23

Mon 7/11/22

Sun 3/9/23

Thu 2/11/23

Thu 9/11/23

Mon 4/3/24

Fri 29/3/24

Sat 30/3/24

Sat 20/2/24

Sun 10/7/22 Fri 5/8/22

Thu 29/12/22 Tue 17/1/23

Installation of Bearing

Fabrication of Steel Bridge

Construction of Concrete slab

Construction of Roofing System

Installation of Movement Joint

Finishing work of bridge deck

Section 4A - Establishment Works (Portion 4a & 4b)

Landscaping Works

Section 4A Completion

Section 4 Completion

Erection of Steel Bridge

Construction of Pier E10-P1 (4 pours)

Allowable for achievement of concrete strength

Forming support for steel bridge at Podium

E & M Installation & Lighting Installation

Connection of Existing Estate Prodium

Task

Split

Milestone

Design Submission and Approval of A&A Works

Submit & obtain BD's approval for A&A Works at Carpark 180 days

Ordering of steel frame, roofing panels & fall arrest system 120 days

286

288 289

290 🖪 🚎

291

292

294 -

295

296

11 C 293

-

Date: Tue 31/8/21

 297
 Establishmen

 298
 Section 4A Completion

Project: Contract No. ED/2019/02

	SOD days	Sat 30/3/24	Sat 29/3/25	295	298								
	0 days	Sat 29/3/25	Sat 29/3/25	5 297									
	Summary	Constant Section Constants		Inactive Milestone		Duration-only	1	Start-only	E	External Milestone	\diamond	Manual Progress	202222422022202220222022202220222022202
	Project Summary	/ 8]	Inactive Summary	0 0	Manual Summary Rollup		Finish-only	3	Deadline	+		
•	Inactive Task			Manual Task		Manual Summary	·1	External Tasks		Progress	***************************************		
							Page	4			-		



-



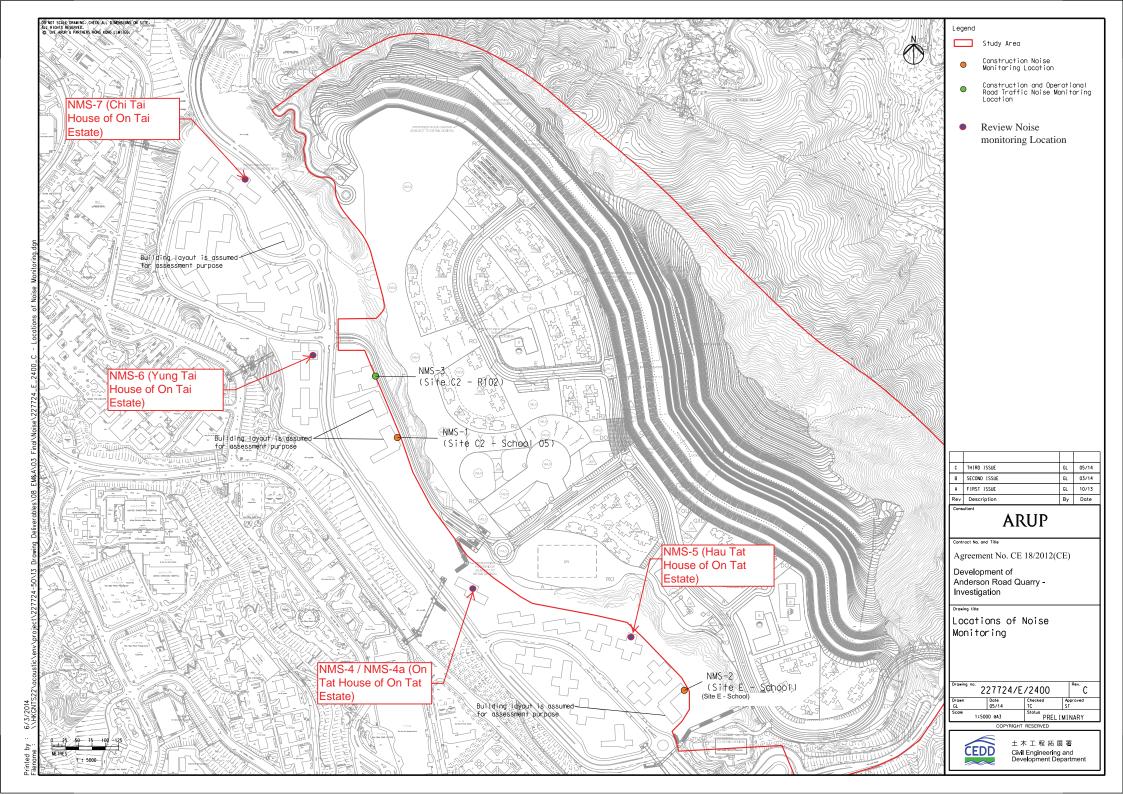
Appendix D

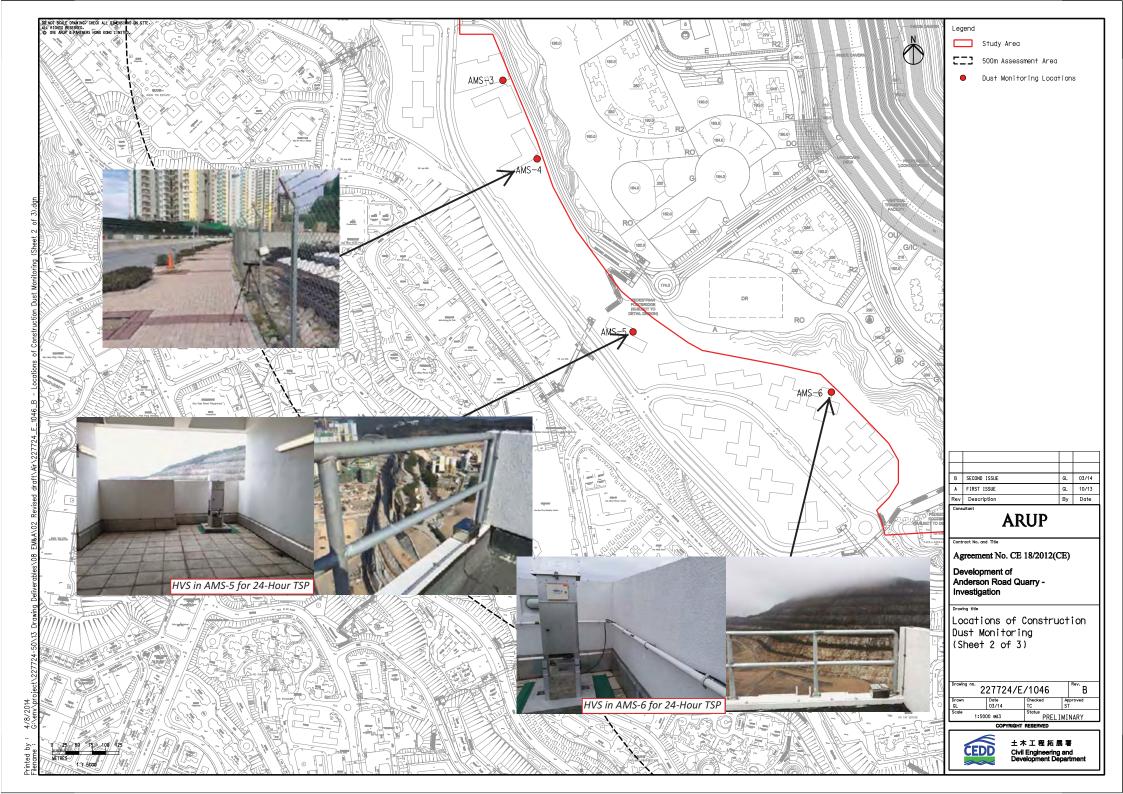
Monitoring Locations for Impact Monitoring



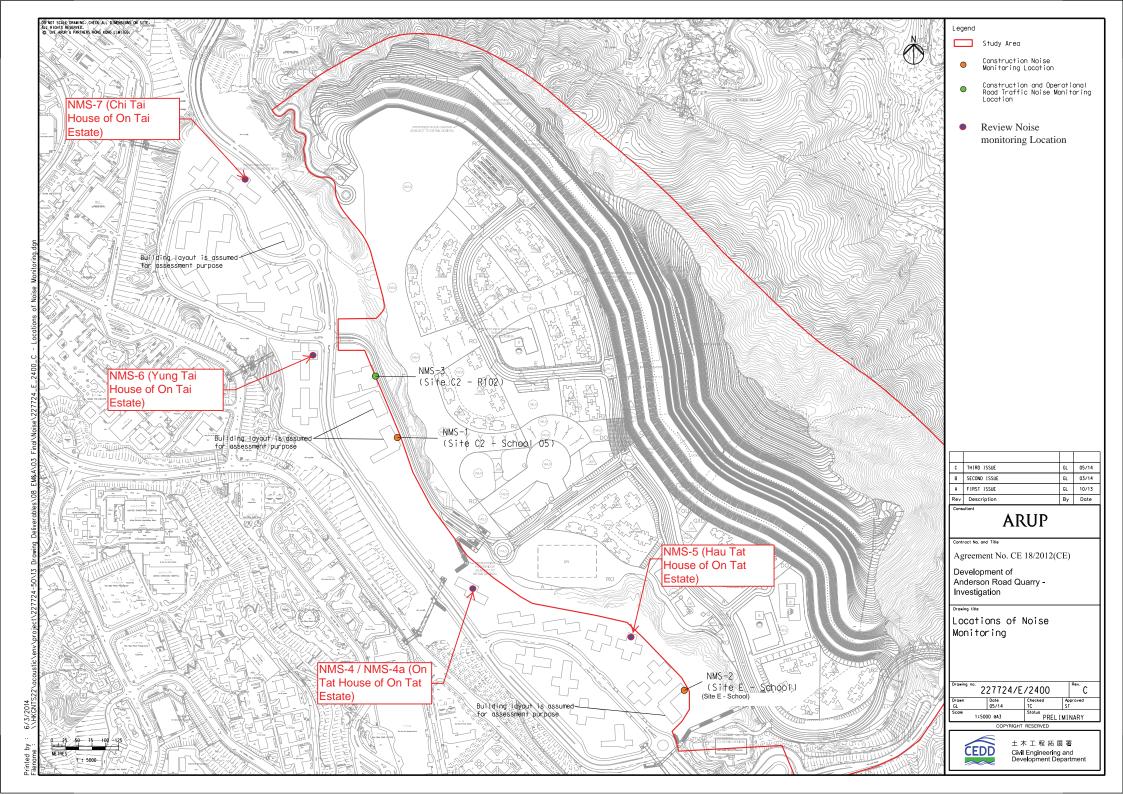
Monitoring Locations for Contract 1 (NE/2016/01)

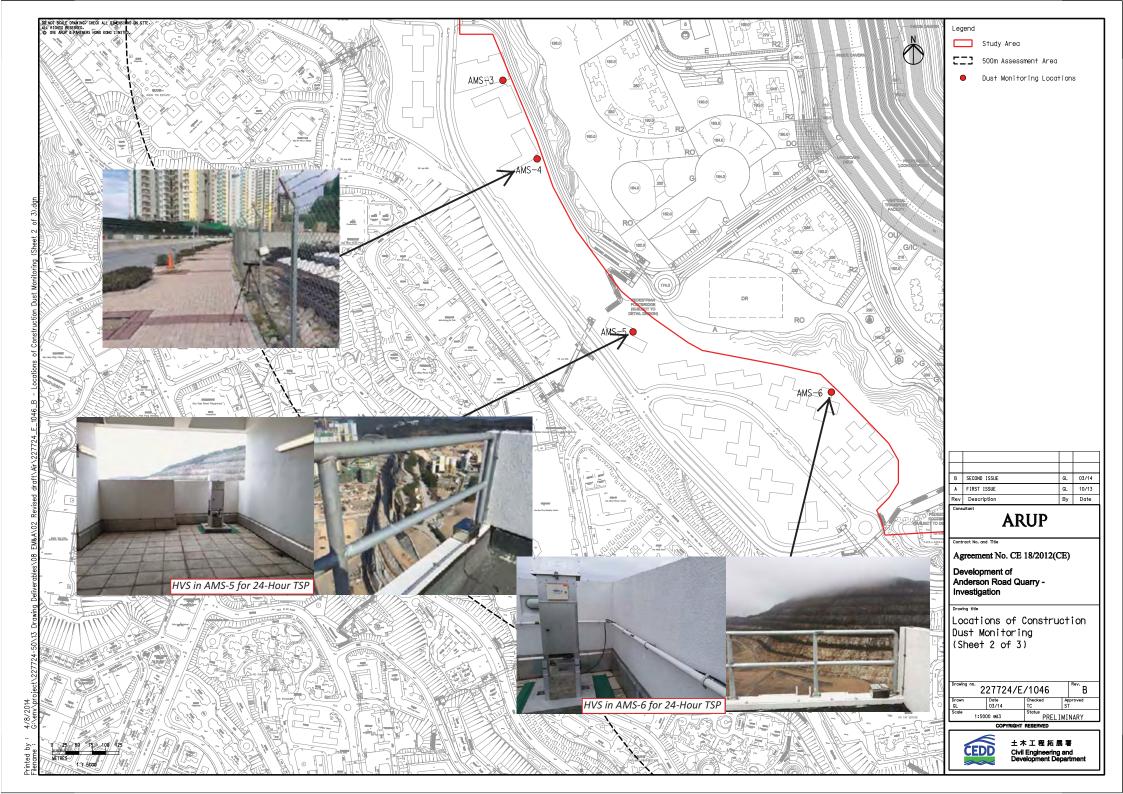


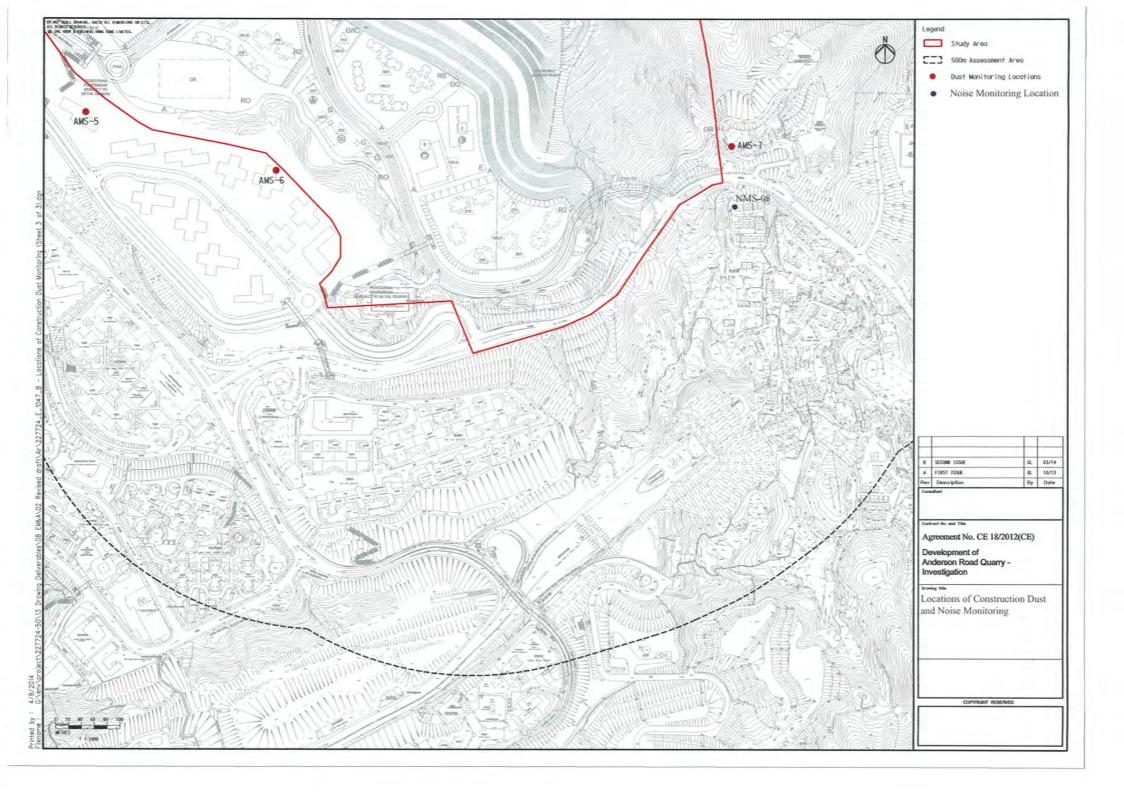






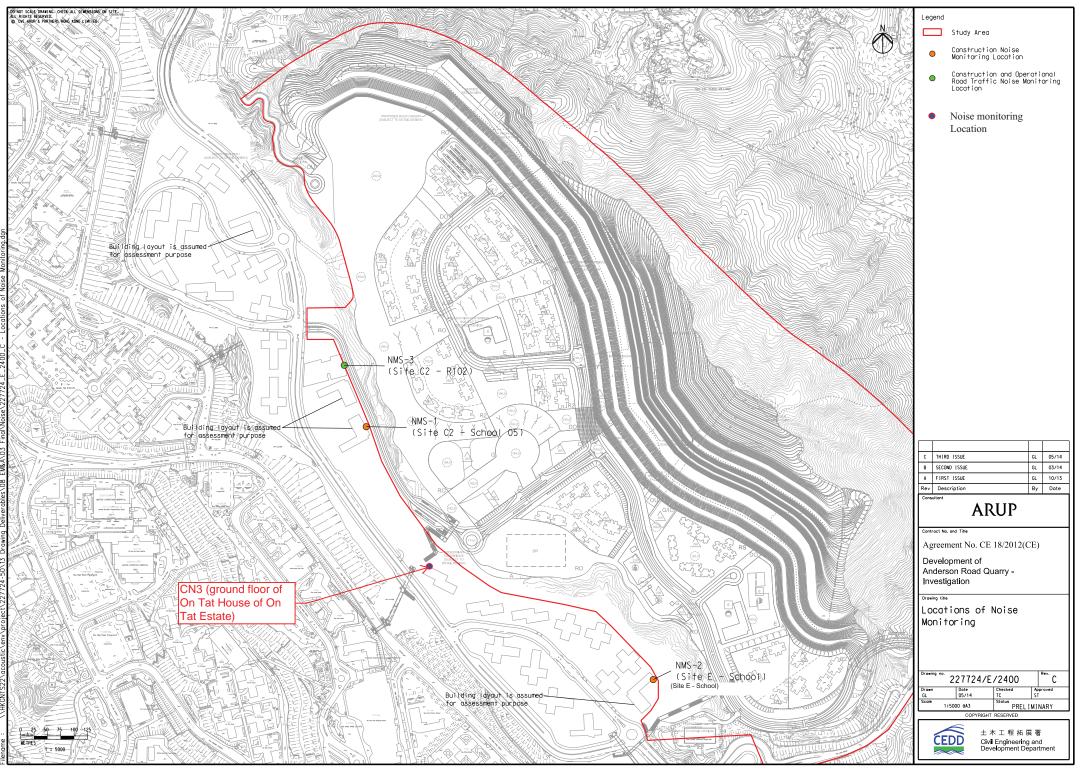






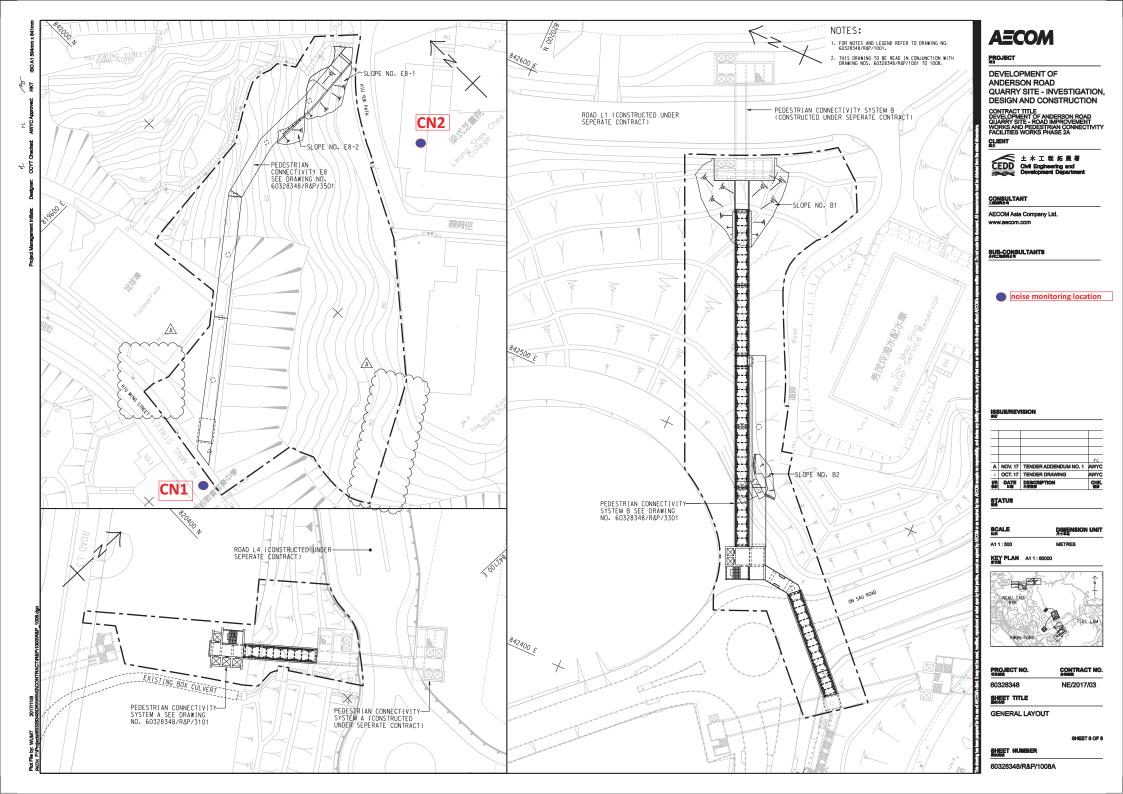


Monitoring Locations for Contract 3 (NE/2017/03)



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

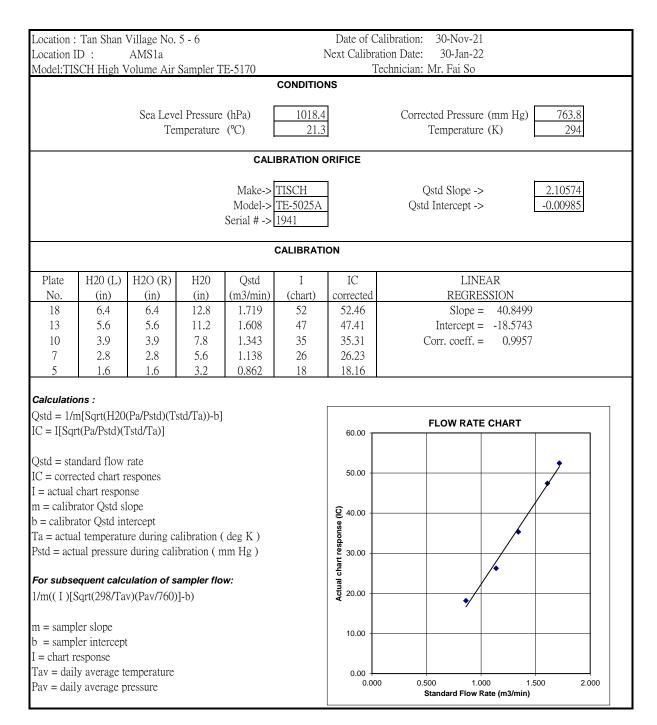
2012





Appendix E

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



Location : Oi Tat House Location ID : AMS 5							Date of C Next Calibra	Calibration: 30-Nov-21 ation Date: 30-Jan-22		
			e Air Sa	mpler TE-5	170			Cechnician: Mr. Fai So		
CONDITIONS										
Sea Level Pressure (hPa) Temperature (°C)]	Corrected Pressure (mm Hg) 763.8 Temperature (K) 294		
	CALIBRATION ORIFICE									
Make-> TI Model-> TE Serial # -> 19							5025A Qstd Intercept ->			
						CALIBI	RATION			
Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	((I chart)	IC corrected	LINEAR REGRESSION		
18 13 10 7 5	6.3 5.3 3.9 2.6 1.4	6.3 5.3 3.9 2.6 1.4	12.6 10.6 7.8 5.2 2.8	1.705 1.564 1.343 1.097 0.806		53 53.47 46 46.40 38 38.32 29 29.25		Slope = 39.5348 Intercept = -14.5973 Corr. coeff. = 0.9991		
		1.4	2.8	0.806		17	17.15	FLOW RATE CHART		
S 1.4 2.8 0.800 Calculations : Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b] IC 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 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 Tav = daily average temperature						60.0 50.0 40.0 30.0 Gettral chart response (C) 20.0 10.0 0.0		0.500 1.000 1.500 2.000 Standard Flow Rate (m3/min)		

Location :	Ha	u Tat Ho	ouse				Date of C	Calibration:	30-1	Nov-21			
Location I	D :	AMS 6				N	Jext Calibra	ation Date:	30-	-Jan-22			
Model:TIS	SCH Hig	h Volum	e Air Sa	mpler TE-5	170		Τ	Cechnician:	Mr. I	Fai So			
				*		ONDIT	IONS						
	Se	a Level I	Pressure	(hPa)	1	018.4		Correc	ted P	Pressure (1	mm Hø)	76	53.8
		Temp			21.3				erature (294	
		TCIII	Clatule			21.5			remp		IX)		274
	CALIBRATION ORIFICE												
				Make->	TISC	H		C	ostd S	lope ->		2.10	574
				Model->				-	-	cept ->		-0.00	
				Serial # ->				C		1			
				L									
					C	ALIBRA	ATION						
Plate	H20 (L)	H2O (R)	H20	Qstd		Ι	IC			LINEA	R		
No.	(in)	(in)	(in)	(m3/min)		art)	corrected		F	REGRESS			
18	6.2	6.2	12.4	1.692		51	51.45			Slope =			
13	5.3	5.3	10.6	1.564		46	46.00	Intercept = -15.7091					
10	3.7	3.7	7.4	1.301		35	35.31	C	Corr. coeff. = 0.9995				
10 7	2.5	2.5	5	1.076		27	27.24	C	.011. (0.7775		
5	1.4	2.3 1.4	2.8	0.806		.6	27.24 16.14						
5	1.4	1.4	2.0	0.800	1	0	10.14						
Calculatio	ons :							FLOW	RATE	E CHART			
Qstd = 1/r	n[Sqrt(H	20(Pa/Ps	std)(Tstd	/Ta))-b]		60.00							1
IC = I[Squ	t(Pa/Pstc	l)(Tstd/T	'a)]										
												•	
Qstd = sta	ndard flo	w rate				50.00							
IC = correction			es								*		
I = actual					í	<u>2</u> 40.00							
m = calibr		-				40.00 30.00 20.00 20.00							
b = calibra	-	-	t			nod							
				bration (deg	γK	5 30.00	-						.
	-		_	ation (mm l	Ho -	nar				1			
$1 \operatorname{stu} - \operatorname{act}$	uai piess	uic duim							/	ł –			
For subse	auent c	alculation	n of sam	nler flow [.]		15 20.00							
	-			-					•				
1/m((I)[S	Sqrt(298/	Tav)(Pav	///00)]-0))									
	1 1					10.00							1
m = samp													
b = samp		ept				0.00							
I = chart r	-						0.000	0.500	1.0	000	1.500	2.0	000
Tav = dail								Standard	Flow F	Rate (m3/mi	n)		
Pav = dail	y averag	e pressur	e										
1													

Location : Ma Yau Tong Village									alibration					
Location I		AMS 7	a Ain Ca		170	N	lext C		tion Date		an-22			
woder: 113	CH Higi	n volum	e Air Sa	mpler TE-5		רוחאמ	TIONS		echnician	1. IVII. Fa	al 50			
					00			•						
Sea Level Pressure (hPa) 10 Temperature (°C)									Corre		essure (n	e ,	7	763.8
Temperature (°C)										Tempe	erature (K	()		294
	CALIBRATION ORIFICE													
	TISCH					Qstd Slo	ope ->		2.1	0574				
				Model->		25A			Qst	td Interc	ept ->		-0.0	0985
				Serial # ->	1941									
	CALIBRATION													
Plate	H20 (L)	H2O (R)	H20	Qstd	Ι		I	2			LINEA	R		
No.	(in)	(in)	(in)	(m3/min)	(char		corre				EGRESS			
18	6.5	6.5	13	1.732	53		53.			Slope = 39.9932				
13	5.6	5.6	11.2	1.608	48		48.42		Intercept = -15.9560 Corr. coeff. = 0.9988					
10 7	3.8 2.9	3.8 2.9	7.6 5.8	1.325 1.158	37 29		37. 29.		COII. COCII. = 0.9900					
5	1.7	2.9 1.7	3.4	0.888	29		29. 20.							
		117	511	0.000	20	I	20.	10						
Calculatio	ons :				ſ	1								
Qstd = 1/r	·			/Ta))-b]		6	бо.00 т		FL		TE CHAR	Т		
IC = I[Sqr	t(Pa/Pstd	l)(Tstd/T	a)]											
Qstd = sta	ndard flo	w rota											▶	
Qstu = sta IC = corre			es			5	50.00 +					1		
I = actual		-										/		
m = calibr	ator Qsto	l slope				<u>୍</u> ରି ସ୍	10.00 -							
b = calibra						onse								
	-		_	oration (deg		l as 3	30.00 +							
Pstd = act	ual press	ure durin	g calibra	ation (mm)	Hg)	chart	30.00 - 20.00 -							
For subse	auent ca	alculatio	n of san	pler flow:		2 tr	20.00 +							
1/m((I)[S	-			-		Ac								
							0.00 -							
m = sample														
b = sample		ept					0.00							
I = chart r Tav = dail		e temner	ature				0.00	00	0.500		000	1.500	2.0	00
Pav = dail Pav = dail									Stan	dard Flow	/ Rate (m3/	min)		
	ur – dung urongo prosouro													

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES





CONTACT	: MR BEN TAM	WORK ORDER HK2152712
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 : 20-DEC-2021
		DATE OF ISSUE : 24-DEC-2021
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.

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 is the Final Report and supersedes any preliminary report with this batch 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 : HK2152712

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING



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

 ID
 Type
 N: 11008017
 AIR
 20-Dec-2021
 S/N: 11008017

Equipment Verification Report (RSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	TSI AM510
Serial No.	11008017
Equipment Ref:	EQ102
Work Order:	HK2152712

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (RSP)
Location & Location ID:	Calibration Room
Equipment Ref:	HVS 021
Last Calibration Date:	23 August 2021

Equipment Verification Results:

Verification Date:

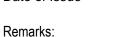
6 December 2021

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Concentration in ug/m ³ (Calibrated Equipment)	Tolerance (ug/m ³)
2hr01min	09:20 ~ 11:21	29.6	1007.7	38.5	149.0	+110.5
2hr01min	11:24 ~ 13:25	29.6	1007.7	37.7	148.0	+110.3
2hr01min	13:30 ~ 15:31	29.6	1007.7	30.6	130.0	+99.4

2021

Linear Regression of Y or X

Slope (factor):	0.2524 (µg/m ³)
Correlation Coefficient (R)	0.9971
Date of Issue	13 December

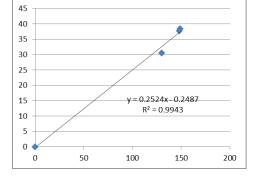


1. **Strong** Correlation (R>0.8)

2. Factor 0.2524 (µg/m³) should be apply for TSP monitoring

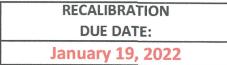
*If R<0.5, repair or re-verification is required for the equipment





Location : Location I		Gold Ki Calibrat	-	strial Buildi m	ng, Kv	vai Chung Date of Calibration: 6-Dec-2 Next Calibration Date: 6-Mar-2			
CONDITIONS									
Sea Level Pressure (hPa) Temperature (°C)								Corrected Pressure (mm Hg Temperature (K)	g) 765.225 292
					CALIE	BRATIO	N ORIFICE		
Make-> TIS Model-> 502 Calibration Date-> 19-Ja								Qa Slope -> Qa Intercept -> Expiry Date->	1.31858 -0.00612 19-Jan-22
					C	ALIBR	ATION		
Plate No.					I art)	IC corrected	LINEAR REGRESSION		
18 13 10 7 5	6.9 5.4 4.4 2.8 1.6	6.9 5.4 4.4 2.8 1.6	13.8 10.8 8.8 5.6 3.2	1.746 1.545 1.395 1.114 0.843	4 3 2	5 6 8 4	31.51 27.81 22.25 17.30 8.65	Slope = 25.10 Intercept = -11.84 Corr. coeff. = 0.99	199
51.61.63.20.8431Calculations :Qa = 1/m[Sqrt(H20(Ta/Pa))-b]IC = I[Sqrt(Ta/Pa)]Qa = actual flow rateIC = corrected chart responesI = actual chart responsem = calibrator Qa slopeb = calibrator Qa interceptTa = actual temperature during calibration (deg K)Pa = actual pressure during calibration (mm Hg)For subsequent calculation of sampler flow:1/m((I)[Sqrt(Tav/Pav)]-b)						40. Actual chart response (IC) .02 .01 .01	00	FLOW RATE CHART	
m = sampler slope b = sampler intercept I = chart response Tav = daily average temperature Pav = daily average pressure						0.	00 0.000	0.500 1.000 1.50 Flow Rate (m3/min)	0 2.000





n m e n t a l Dertificate of Calibration

			Calibration	Certificatio	on Informat	ion			
Cal. Date:	January 19	, 2021	Roots	meter S/N:	438320	Ta:	°К		
Operator:	Jim Tisch					755.1	mm Hg		
Calibration	Model #:	TE-5025A	Calil	brator S/N:	rator S/N: 1941				
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔН		
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
	1	1	2	1	1.4830	3.2	2.00		
	2	3	4	1	1.0420	6.4	4.00		
	3	5	6	1	0.9290	8.0	5.00		
	4	7	8	1	0.8840	8.8	5.50		
	5	9	10	1	0.7340	12.9	8.00		
			[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		Va	(x-axis)	(y-axis)		
	1.0029	0.6762	1.41		0.9958	0.6715	0.8824		
	0.9986	0.9583	2.0071		0.9915	0.9516	1.2479		
	0.9965	1.0726	2.2440		0.9894	1.0650	1.3952		
	0.9954	1.1260 1.3487	2.35		0.9883	1.1180	1.4633		
	0.9699	1.3467 m=	2.833 2.105		0.9829	1.3391 m =	1.7648 1.31858		
	QSTD	b=	-0.00		QA	b=	-0.00612		
	QJID	r=	0.999		QA	r=	0.99992		
				Calculatio	าร				
	Vstd=	$\Delta Vol((Pa-\Delta P))$	/Pstd)(Tstd/Ta	a)	Va=				
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time			
			For subsequ	ent flow ra	te calculatio	ns:			
	Qstd=	1/m ((Pa Pstd Tstd	-))-b)	Qa=	$1/m\left(\sqrt{\Delta H}\right)$	l(Ta/Pa))-b)		
		Conditions							
Tstd:				Į.		RECA	LIBRATION		
Pstd:	1	mm Hg			LIS FPA reco	mmends a	nnual recalibratio	n ner 1000	
AH: calibrat		(ey ter reading (i	n H2O)				Regulations Part !		
		eter reading					, Reference Meth	-	
		perature (°K)					ended Particulat		
	Contraction of the local division of the loc	ressure (mm	Hg)				ere, 9.2.17, page		
b: intercept							, public		
m: slope									

<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





CONTACT	: MR BEN TAM	WORK ORDER : HK2135786
CLIENT	ACTION UNITED ENVIRONMENT	
	SERVICES AND CONSULTING	
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 2-SEP-2021
	KONG	DATE OF ISSUE : 10-SEP-2021
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.
- 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
Kichard Jong.	
Richard Fung	Managing Director

This is the Final Report and supersedes any preliminary report with this batch 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 : HK2135786

¹ ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING

CLIENT PROJECT



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2135786-001	S/N: 11008018	AIR	09-Aug-2021	S/N: 11008018

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	TSI AM510
Serial No.	11008018
Equipment Ref:	EQ103
Work Order:	HK2135786

Standard Equipment:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	Calibration Room
Equipment Ref:	HVS 018
Last Calibration Date:	2 August 2021

Equipment Verification Results:

Verification Date:

9 August 2021

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Concentration in ug/m ³ (Calibrated Equipment)	Tolerance (ug/m ³)
2hr	09:13 ~ 11:13	29.1	1005.4	58.6	50.0	-8.6
2hr03min	11:16 ~ 13:19	29.1	1005.4	62.2	53.0	-9.2
2hr01min	13:22 ~ 15:23	29.1	1005.4	52.7	48.0	-4.7

1.1542 (µg/m³)

0.9982

13 August 2021

70

Linear Regression of Y or X

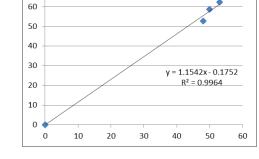
Slope (factor):
Correlation Coefficient (R)
Date of Issue

Remarks:

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

2. Factor 1.1542 (µg/m³) should be apply for TSP monitoring

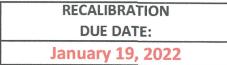
*If R<0.5, repair or re-verification is required for the equipment



Operator :	Fai So	Signature :	Sa	Date :	13 August 2021
QC Reviewer :	Ben Tam	Signature :	X	Date :	13 August 2021

Location : Gold King Industrial Building, K Location ID : Calibration Room	wai Ch	ung	Date of Calibration: 2-Aug-21 Next Calibration Date: 2-Nov-21
	COND	ITIONS	
Sea Level Pressure (hPa) Temperature (°C)	998.3 30.0		Corrected Pressure (mm Hg) 748.725 Temperature (K) 303
CALI	IBRATI		E
	SCH 25A an-21		Qstd Slope -> 2.10574 Qstd Intercept -> -0.00985 Expiry Date-> 18-Jan-22
	CALIB	RATION	
	I nart)	IC corrected	LINEAR REGRESSION
13 5.3 5.3 10.6 1.527 4 10 4.4 4.4 8.8 1.391 4 8 2.6 2.6 5.2 1.071 3	50 48 44 31 26	49.22 47.25 43.31 30.51 25.59	Slope = 30.5541 Intercept = -0.5839 Corr. coeff. = 0.9906
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 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 Tav = daily average temperature	05 04 00 05 05 00 01 01		FLOW RATE CHART





n m e n t a l Dertificate of Calibration

			Calibration	Certificatio	on Informat	ion			
Cal. Date:	January 19, 2021 Roots		meter S/N:	438320	Ta:	294	°К		
Operator:	Jim Tisch					Pa:	755.1	mm Hg	
Calibration				brator S/N:	1941				
		Vol. Init	Vol. Final	Final ΔVol. ΔTime			ΔΗ		
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
	1	1	2	1	1.4830	3.2	2.00		
	2	3	4	1	1.0420	6.4	4.00		
	3	5	6	1	0.9290	8.0	5.00		
	4	7	8	1	0.8840	8.8	5.50		
	5	9	10	1	0.7340	12.9	8.00		
			[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		Va	(x-axis)	(y-axis)		
	1.0029	0.6762	1.41		0.9958	0.6715	0.8824		
	0.9986	0.9583	2.00		0.9915	0.9516	1.2479		
	0.9965	1.0726	2.24		0.9894	1.0650	1.3952		
	0.9954	1.1260 1.3487	2.35		0.9883	1.1180	1.4633		
	0.9699	1.3467 m=	2.833 2.105		0.9829	1.3391 m =	1.7648 1.31858		
	QSTD	b=			QA	b=	-0.00612		
	QUID	r=	0.999		QA	r=	0.99992		
				Calculations					
	Vstd=	$\Delta Vol((Pa-\Delta P))$	/Pstd)(Tstd/Ta	a)	Va=				
	Qstd=	Vstd/∆Time			Qa= Va/ΔTime				
			For subsequ	ent flow rate calculations:					
	Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$			-))-b)	Qa=	$1/m\left(\sqrt{\Delta H}\right)$	l(Ta/Pa))-b)		
		Conditions							
Tstd:				Į.	RECALIBRATION				
Pstd:	Pstd: 760 mm Hg					US EPA recommends annual recalibration per 1998			
Key ΔH: calibrator manometer reading (in H2O)				40 Code of Federal Regulations Part 50 to 51,					
	P: rootsmeter manometer reading (mm Hg)				Appendix B to Part 50, Reference Method for the				
	: actual absolute temperature (°K)				Determination of Suspended Particulate Matter in				
	Contraction of the local data and the local data an	ressure (mm	Hg)				ere, 9.2.17, page		
b: intercept							, public		
m: slope									

<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





CONTACT	: MR BEN TAM	WORK ORDER HK2111342				
CLIENT	ACTION UNITED ENVIRONMENT					
	SERVICES AND CONSULTING					
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH : 1				
	TAI LIN PAI ROAD, KWAI CHUNG, N.T. HONG	DATE RECEIVED : 17-MAR-2021				
	KONG	DATE OF ISSUE : 16-APR-2021				
PROJECT	:	NO. OF SAMPLES : 1				
		CLIENT ORDER				

General Comments

- Samples(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.
- 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
Kichard Jong.	
Richard Fung	Managing Director

This is the Final Report and supersedes any preliminary report with this batch 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 : HK2111342

: 1 : ACTION UNITED ENVIRONMENT SERVICES AND CONSULTING



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

 ID
 Type
 ID
 ID</t

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	456658
Equipment Ref:	EQ115
Job Order	HK2111342

Standard Equipment:

Higher Volume Sampler
AUES office (calibration room)
HVS 018
13 January 2021

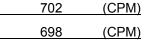
Equipment Verification Results:

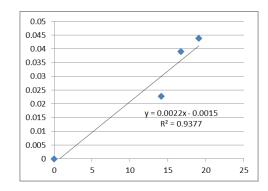
Verification Date:

12 March 2021

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
2hr01min	09:30 ~ 11:31	22.0	1018.6	0.023	1711	14.1
2hr01min	11:35 ~ 11:36	22.0	1018.6	0.044	2311	19.1
2hr	11:40 ~ 13:40	22.0	1018.6	0.039	2001	16.7

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





Linear Regression of Y or X

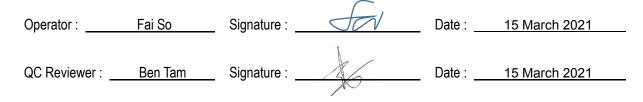
Slope (K-factor):	0.0022
Correlation Coefficient (R)	0.9683
Date of Issue	15 March 2021

Remarks:

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

2. Factor 0.0022 should be apply for TSP monitoring

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



Location : Gold King Industrial Building, K Location ID : Calibration Room		alibration: 13-Jan-21 tion Date: 13-Apr-21		
	COND	ITIONS		
Sea Level Pressure (hPa) Temperature (°C)	1019.8 13.4		Corrected Pressure (Temperature (C,
CALI	IBRAT	ION ORIFICE		
	SCH 25A eb-20		Qstd Slope -> Qstd Intercept -> Expiry Date->	2.03014 -0.04616 7-Feb-21
	CALIB	RATION		
	I nart)	IC corrected	LINE A REGRES	
13 5.1 5.1 10.2 1.633 4 10 4 4 8.0 1.448 4 8 2.6 2.6 5.2 1.172 3	55 49 42 32 22	56.28 50.14 42.98 32.75 22.51	Slope = Intercept = Corr. coeff. =	39.9777 -15.3902 0.9972
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 Tav = daily average temperature	05 04 05 05 05 02 01 01		FLOW RATE CHAP	1.500 2.000

								ALIBRATION
							D	UE DATE:
)		Febru	uary 7, 202
nvir	o n m	ent	al	- Construction of the Article				
	Ø		2 .		O	0.0	6 •	
	0e	rtifa	çate	01	Oal	ibra	tion	
			Calibration	Certificatio	on Informat	ion		
Cal. Date:	February 7	2020	Roots	meter S/N:	438320	Ta:	295	°К
Operator:	Jim Tisch					Pa:	745.5	mm Hg
Calibration	Model #:	TE-5025A	Calil	prator S/N:	1612			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3730	3.2	2.00	
	2	3	4	1	0.9820	6.4	4.00	-
	3	5	6	1	0.8780	8.0	5.00	-
	4	7	8	1	0.8340	8.8	5.50	
	5	9	10	1	0.6900	12.8	8.00	
			[Data Tabula	tion]		
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-ax		Va	(x-axis)	(y-axis)	
	0.9866	0.7186	1.40		0.9957	0.7252	0.8896	-
	0.9824	1.0004	1.99	09	0.9914	1.0096	1.2581	-
	0.9802	1.1165	2.22	59	0.9893	1.1267	1.4066	
	0.9792	1.1741	2.33	45	0.9882	1.1849	1.4753	-
	0.9739	1.4114	2.81		0.9828	1.4244	1.7792	-
	OCTD		2.030		0.4		1.27124	
	QSTD	b= r=	-0.04		QA	b= r=	-0.02917 0.99995	
		1-	0.555			1	0.33333]
	Vstd=	AVol((Pa-AP)	/Pstd)(Tstd/Ta	Calculation		ΔVol((Pa-Δl	P)/Pa)	-
		Vstd/ATime	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Va/ATime	,,,	-
			For subsequ	ient flow rat	te calculatio			1
	Qstd=	1/m ((_ \[\[\] \[\] \[\] H (Pa (Tstd Pstd Ta	-))-b)		11	н(Та/Ра))-b)	
[Conditions	rstu /\ la	///		// V	· // /]
Tstd:				Г		RECA	LIBRATION	1
Pstd:		mm Hg						
	ŀ	(ey					nnual recalibrati	
ΔH: calibrate							Regulations Part	
ΔP: rootsme		eter reading perature (°K)					, Reference Met	
		essure (mm					ended Particulat	
		cooure (min			th	e Atmosphe	ere, 9.2.17, page	30
b: intercept			1	1				1

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

-



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C216479 證書編號

ITEM TESTED / 送檢項目		(Job No. / 序引編號:IC21-2189)	Date of Receipt / 收件日期: 25 October 2021
Description / 儀器名稱 :	:	Sound Level Meter (EQ016)	
Manufacturer / 製造商 :	:	Rion	
Model No. / 型號 :	:	NL-52	
Serial No. / 編號 :	:	00464681	
Supplied By / 委託者 :	:	Action-United Environmental Services ar	nd Consulting
		Unit A, 20/F., Gold King Industrial Build	ling,
		35-41 Tai Lin Pai Road, Kwai Chung, N.	Т.

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 : 9 November 2021

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

K P Cheuk

Project Engineer

K C/Lee Engineer

Certified By 核證

Date of Issue 簽發日期

:

10 November 2021

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



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C216479 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	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C210084
CL281	Multifunction Acoustic Calibrator	AV210017

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

		Applie	d Value	UUT	IEC 61672		
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	Α	Fast	94.00	1	93.6	± 1.1

6.1.2 Linearity

	UU	Г Setting	Applied	d Value	UUT	
Range	Function	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	L _A	А	Fast	94.00	1	93.6 (Ref.)
				104.00		103.6
				114.00		113.6

IEC 61672 Class 1 Spec. : \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	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	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.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C216479 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting					ied Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _A	А	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	90.4	-3.2 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	94.8	$+1.2 \pm 1.6$
					4 kHz	94.6	$+1.0 \pm 1.6$
					8 kHz	92.6	-1.1 (+2.1 ; -3.1)
					16 kHz	85.7	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

	UUT		Appli	ed Value	UUT	IEC 61672	
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _C	С	Fast	94.00	63 Hz	92.7	$\textbf{-0.8} \pm 1.5$
					125 Hz	93.4	-0.2 ± 1.5
					250 Hz	93.6	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	92.8	$\textbf{-0.8} \pm 1.6$
					8 kHz	90.7	-3.0 (+2.1 ; -3.1)
					16 kHz	83.7	-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. : C216479 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 17434

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB :	63 Hz - 125 Hz	$\pm 0.35 \text{ dB}$
		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	: ± 0.10 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.



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210403 證書編號

ITEM TESTED / 送檢項目] (Job No. / 序引編號:IC20-1324)	Date of Receipt / 收件日期: 19 January 2021
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 Bui	lding,
	35-41 Tai Lin Pai Road, Kwai Chung, N	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 : 21 January 2021

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
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試

K P Cheuk Assistant Engineer

Certified By 核證

K C Lee Engineer

Date of Issue 簽發日期 :

21 January 2021

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



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210403 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 IDDescriptionCertificate No.CL28040 MHz Arbitrary Waveform GeneratorC210084CL281Multifunction Acoustic CalibratorCDK1806821

- 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	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	94.0	± 1.1

6.1.2 Linearity

	UU	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	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

IEC 61672 Class 1 Spec. : \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	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	94.0	Ref.
			Slow			93.9	± 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.



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210403 證書編號

Frequency Weighting 6.3

6.3.1 A-Weighting

 <u>It holding</u>									
	UU	Γ Setting		Appl	ied Value	UUT	IEC 61672 Class 1		
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.		
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)		
30 - 120	L _A	А	Fast	94.00	63 Hz	67.7	-26.2 ± 1.5		
					125 Hz	77.8	-16.1 ± 1.5		
					250 Hz	85.3	-8.6 ± 1.4		
					500 Hz	90.7	-3.2 ± 1.4		
					1 kHz	94.0	Ref.		
					2 kHz	95.2	$+1.2 \pm 1.6$		
					4 kHz	95.1	$+1.0 \pm 1.6$		
					8 kHz	93.0	-1.1 (+2.1 ; -3.1)		
					12.5 kHz	90.1	-4.3 (+3.0 ; -6.0)		

6.3.2 C-Weighting

		Γ Setting		Applied Value		UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L _C	С	Fast	94.00	63 Hz	93.1	$\textbf{-0.8} \pm 1.5$
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	93.9	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.3	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1 ; -3.1)
					12.5 kHz	88.3	-6.2 (+3.0 ; -6.0)

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. 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

Certificate of Calibration 校正證書

Certificate No. : C210403 證書編號

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

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
	B : 1 kHz: ± 0.10 dB (Ref. 94 dB)B : 1 kHz: ± 0.10 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.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C212414 證書編號

ITEM TESTED / 送檢功	百百	(Job No. / 序引編號:IC21-0728)	Date of Receipt / 收件日期: 13 April 2021
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 G	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 : 25 April 2021

TEST RESULTS / 測試結果

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

The results do not exceed manufacturer's specification & user's specified acceptance criteria. 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

4	h
 m	\ (·
ΗT	Wong

K C Lee Engineer

1

Assistant Engineer

Certified By 核證

Date of Issue 簽發日期 :

26 April 2021

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.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C212414 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	C203952
CL281	Multifunction Acoustic Calibrator	AV210017
TST150A	Measuring Amplifier	C201309

- 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	94.0	± 0.5	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	User's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.955	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.

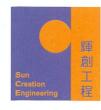
- The uncertainties are for a confidence probability of not less than 95 %.

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.



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C210388 證書編號

ITEM TESTED / 送檢項目	(Job No./序引編號:IC21-0122)	Date of Receipt / 收件日期: 19 January 2021		
Description / 儀器名稱 :	Sound Calibrator (EQ089)			
Manufacturer / 製造商 :	Rion			
Model No. / 型號 :	NC-75			
Serial No. / 編號 :	34680623			
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.	Г.		
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 : 20 January 2021

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
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試

K P Cheuk

Assistant Engineer

K ¢ Lee Engineer

Certified By 核證 Date of Issue 簽發日期

:

20 January 2021

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.



Sun Creation Engineering Limited Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C210388 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> C203952 CDK1806821 C201309

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

UUT Measured		Measured Value	Mfr's Spec.	Uncertainty of Measured Value
	Nominal Value	(dB)	(dB)	(dB)
	94 dB, 1 kHz	94.0	± 0.25	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	1.000 0	$1 \text{ kHz} \pm 0.1 \%$	± 0.1

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.



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

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\January\R0532v1.docx

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

E	Action			
Event	ET	IEC	ER	Contractor
Action Level Exceedance	 Notify IEC, ER and Contractor; Carry out investigation; 	1. Review the analysed results submitted by the ET;	1. Confirm receipt of notification of failure in writing;	1. Submit noise mitigation proposals to IEC and ER; and
	 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 proposed remedial measures by the Contractor and advise the ER accordingly; and Supervise the implementation of remedial measures. 	 Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; and Ensure remedial measures are properly implemented. 	2. 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 Schedu	lle for the Reporting Perio	d

		NOISE MONITORING	AIR QUALITY	MONITORING
	Date	(0700 – 1900)	1-HOUR TSP	24-HOUR TSP
Sat	1-Jan-22			
Sun	2-Jan-22			
Mon	3-Jan-22			✓
Tue	4-Jan-22			
Wed	5-Jan-22	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	
Thu	6-Jan-22			
Fri	7-Jan-22	CN1, CN2, CN3 and NMS8		
Sat	8-Jan-22			\checkmark
Sun	9-Jan-22			
Mon	10-Jan-22			
Tue	11-Jan-22	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	\checkmark	
Wed	12-Jan-22			
Thu	13-Jan-22	CN1, CN2, CN3 and NMS8		
Fri	14-Jan-22			√
Sat	15-Jan-22			
Sun	16-Jan-22			
Mon	17-Jan-22	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	✓	
Tue	18-Jan-22			
Wed	19-Jan-22	CN1, CN2, CN3 and NMS8		
Thu	20-Jan-22			✓
Fri	21-Jan-22			
Sat	22-Jan-22		✓	
Sun	23-Jan-22			
Mon	24-Jan-22			
Tue	25-Jan-22	CN1, CN2, CN3 and NMS8		,
Wed	26-Jan-22			√
Thu	27-Jan-22			
Fri	28-Jan-22	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	\checkmark	
Sat	29-Jan-22			\checkmark
Sun	30-Jan-22			
Mon	31-Jan-22	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	√	

✓	Monitoring Day
	Sunday or Public Holiday

		NOISE MONITORING	AIR QUALITY MO	NITORING
	Date	(0700 – 1900)	1-HOUR TSP	24-HOUR TSP
Tue	1-Feb-22			
Wed	2-Feb-22			
Thu	3-Feb-22			
Fri	4-Feb-22			✓
Sat	5-Feb-22	CN1, CN2, CN3 and NMS8	✓	
Sun	6-Feb-22			
Mon	7-Feb-22			
Tue	8-Feb-22			√
Wed	9-Feb-22	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	· •	
Thu	10-Feb-22			
Fri	11-Feb-22	CN1, CN2, CN3 and NMS8		
Sat	12-Feb-22			
Sun	13-Feb-22			
Mon	14-Feb-22			√
Tue	15-Feb-22	NMS2, NMS3, NMS-4a, NMS5 NMS6 and NMS7	· ✓	
Wed	16-Feb-22			
Thu	17-Feb-22	CN1, CN2, CN3 and NMS8		
Fri	18-Feb-22			
Sat	19-Feb-22			√
Sun	20-Feb-22			
Mon	21-Feb-22	NMS2, NMS3, NMS-4a, NMS5, NMS6 and NMS7	×	
Tue	22-Feb-22			
Wed	23-Feb-22	CN1, CN2, CN3 and NMS8		
Thu	24-Feb-22			
Fri	25-Feb-22			✓
Sat	26-Feb-22		✓	

Impact Monitoring Schedule for next Reporting Period

✓	Monitoring Day
	Sunday or Public Holiday

27-Feb-22

28-Feb-22

Sun Mon Appendix H

Database of Monitoring Result



24-HOUR TSP MONITORING RESULT DATABASE

24 hour TCI	D.Manitari	Data for	AMC1a			24-110				SULI DATABA	BE				
24-nour 15	P Monitoring	, Data for A	AIVISIA		1							1		I	ſ
DATE	SAMPLE	ELA	APSED TIM	4E	CHAF	RT REA	DING	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WI	EIGHT (g)	DUST WEIGHT COLLECTED	24-hr TSP
DATE	NUMBER	INITIAL	FINAL	(min)	MIN	MAX	AVG	(°C)	(hPa)	(m^3/min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
3-Jan-22	62429	24355.76	24379.76	1440	34	35	34.5	17.4	1020.3	1.31	1891	2.7056	2.7449	0.0393	21
8-Jan-22	27790	24379.76	24403.76	1440	35	35	35	17.4	1020.5	1.33	1908	2.7030	2.7543	0.0463	24
14-Jan-22	27822	24403.76	24403.76	1440	34	35	34.5	16.3	1020.5	1.35	1908	2.708	2.7343	0.0336	18
20-Jan-22	27794	24427.76	24451.76	1440	34	35	34.5	16.6	1019.8	1.31	1892	2.7551	2.7884	0.0333	18
26-Jan-22	27830	24451.76	24475.76	1440	34	35	34.5	15.4	1019.0	1.31	1895	2.7193	2.7362	0.0169	9
29-Jan-22	27901		24499.76	1440	34	35	34.5	15.8	1020.5	1.32	1895	2.7769	2.8019	0.025	13
	P Monitoring			1110	0.		0 110	1010	102010	1102	1070	2	2.001)	01020	10
DATE	SAMPLE NUMBER	ELA	APSED TIM			RT REA		AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WI		DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)			AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
3-Jan-22	62428	11568.15	11592.16	1440.60	36	37	36.5	17.4	1020.3	1.31	1884	2.6880	2.7557	0.0677	36
8-Jan-22	27791	11592.16	11616.16	1440.00	36	37	36.5	17	1020.3	1.31	1884	2.7047	2.7786	0.0739	39
14-Jan-22	27797	11616.16		1440.00	36	37	36.5	16.3	1019.9	1.31	1885	2.7616	2.8349	0.0733	39
20-Jan-22	27799	11640.16	11664.16		36	37	36.5	16.6	1019.8	1.31	1885	2.7654	2.8283	0.0629	33
26-Jan-22	27829	11664.16	11688.17	1440.60	36	37	36.5	15.4	1020.3	1.31	1889	2.7285	2.7775	0.0490	26
29-Jan-22	27836	11688.17	11712.17	1440.00	36	37	36.5	15.8	1020.5	1.31	1887	2.7054	2.7739	0.0685	36
24-hour TSI	P Monitoring	<mark>, Data for</mark> A	AMS-6												
DATE	SAMPLE NUMBER		APSED TIM			RT REA		AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WI	-	DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)		MAX	AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
3-Jan-22	62430	16712.07	16736.08	1440.60	36	37	36.5	17.4	1020.3	1.34	1926	2.6925	2.8058	0.1133	59
8-Jan-22	27792	16736.08	16760.08	1440.00	36	37	36.5	17	1020.3	1.34	1926	2.7118	2.8394	0.1276	66
14-Jan-22	27796	16760.08	16784.08	1440.00	36	37	36.5	16.3	1019.9	1.34	1927	2.7586	2.8855	0.1269	66
20-Jan-22	27798	16784.08	16808.08	1440.00	36	37	36.5	16.6	1019.8	1.34	1926	2.7586	2.8942	0.1356	70
26-Jan-22	27800	16808.08	16832.09	1440.60	36	37	36.5	15.4	1020.3	1.34	1930	2.7755	2.8449	0.0694	36
29-Jan-22	27835	16832.09		1440.00	36	37	36.5	15.8	1020.5	1.34	1929	2.7183	2.8120	0.0937	49
24-hour TSI	P Monitoring	<mark>, Data for</mark> A	AMS-7												
DATE	SAMPLE NUMBER	ELA	APSED TIM	1E	CHAH	RT REA	DING	AVG TEMP	AVG AIR PRESS	STANDARD FLOW RATE	AIR VOLUME	FILTER WI	EIGHT (g)	DUST WEIGHT COLLECTED	24-hr TSP
		INITIAL	FINAL	(min)			AVG	(°C)	(hPa)	(m ³ /min)	(std m ³)	INITIAL	FINAL	(g)	$(\mu g/m^3)$
3-Jan-22	27760	12048.26	12072.26	1440.00	34	35	34.5	17.4	1020.3	1.28	1837	2.6858	2.8072	0.1214	66
8-Jan-22	27793	12072.26	12096.26	1440.00	35	35	35.0	17.8	1020.5	1.29	1855	2.7554	2.9269	0.1715	92
14-Jan-22	27823	12096.26	12120.26	1440.00	34	35	34.5	16.3	1019.9	1.28	1839	2.7024	2.7686	0.0662	36
20-Jan-22	27795	12120.26	12144.26	1440.00	34	35	34.5	16.6	1019.8	1.28	1839	2.7542	2.8694	0.1152	63
26-Jan-22	27831	12144.26	12168.26	1440.00	34	35	34.5	15.4	1020.3	1.28	1842	2.7151	2.7733	0.0582	32
29-Jan-22	27900	12168.26	12192.26	1440.00	34	35	34.5	15.8	1020.5	1.28	1841	2.6789	2.7735	0.0946	51



NOISE MONITORING RESULT DATABASE FOR CONTRACT 1

Noise Meas	uremer	nt Resu	lts (dB)	of NMS2																	
	Stort.	1st	t Leq (5	min)	2nd	Leq (5r	nin)	3rd	Leq (5r	nin)	4th	Leq (5n	nin)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	T. a. a. 20i	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)
5-Jan-22	10:57	60.6	61.6	58	60.4	62.8	58.4	61.2	62.7	59.6	60.2	61.8	58.6	61.3	62.9	59.9	61.4	62.8	59.8	61	70
11-Jan-22	10:35	62.4	63.8	60.9	58.9	62.4	56.1	61.2	63.5	59.7	63.5	66.4	61	61.9	63.4	57.4	58.7	62.4	55.8	61	70
17-Jan-22	10:44	61.8	63.7	57.7	64.4	66.1	60.5	62.3	65.4	61	58.9	61.5	57.1	60.5	62.8	55.8	57.9	60.2	52.1	62	70
28-Jan-22	10:43	60.4	62.3	58.5	61.5	63.5	59.6	61.6	62.5	59.8	60.5	61.8	58.7	61.8	62.7	59.9	62.7	63.9	60.8	61	70
31-Jan-22	10:50	59.8	61.6	54.456.6	59.4	53.1	61.5	63.4	65.4	61.2	63.4	65.8	60.1	60.5	62.8	55.4	59.1	62.3	56.3	61	70
Noise Meas	uremer	nt Resu	lts (dB)	of NMS3	;																
		1st	Lea (5n	nin)	2nd L	ea (5mi	n)	3rd L	ea (5mi)	n)	4th Le	a (5mir	1)	5th Le	ea (5mir	1)	6th Le	a (5mir)		Limit

	Start	1st	Leq (5n	nin)	2nd	Leq (5)	min)	3rd	Leq (5)	min)	4th	Leq (51	min)	5th	Leq (51	nin)	6th	Leq (5)	min)	Leq30min,	Limit
Date	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)	$L10, dB(\Lambda)$	L90,	$d\mathbf{R}(\mathbf{A})$	Level dB(A)
		· · /						· · ·	<u> </u>					~ ~							
5-Jan-22	14:17	62.7	65.2	59.4	64.7	67.1	59.5	62.5	66.0	59.4	60.2	64.0	58.4	62.7	66.5	59.4	61.3	65.0	58.7	63	75
11-Jan-22	14:26	65.4	67.8	61.2	64.2	66.5	60.2	68.4	70.1	62.3	63.0	65.4	60.1	68.4	69.0	65.3	63.2	65.8	60.6	66	75
17-Jan-22	13:59	64.5	66.3	60.2	63.5	64.1	61.9	67.8	69.9	63.4	61.2	63.6	57.0	63.8	65.9	61.0	62.8	65.4	54.5	64	75
28-Jan-22	14:05	60.7	61.6	58.3	60.0	62.9	58.2	60.7	62.8	58.3	61.6	62.9	59.6	61.5	62.8	59.9	60.6	61.7	58.8	61	75
31-Jan-22	14:19	59.6	63.4	54.5	62.5	64.5	59.4	63.4	65.4	59.4	62.5	65.2	58.7	60.8	63.1	56.5	62.7	65.4	57.1	62	75

Noise Mea	sureme	ent Resu	ılts (dB) of NM	S4a																
	Stant	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (5)	min)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	Las 20min	Limit
Date	Start Time	Leq, L10, L90, Leq, L10, L90,					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)
5-Jan-22	9:28	68.8	70.4	66.7	69.8	70.7	66.3	70.5	72.8	67.1	69.6	71.7	66.9	69.8	71.6	67.3	68.7	70.1	66.8	70	75
11-Jan-22	9:12	67.8	71.2	63.4	68.4	70.5	65.4	71.2	74.2	67	68	70.5	65.6	66.5	68.4	63.4	67.8	69.8	63.5	69	75
17-Jan-22	8:57	70.6	74.2	65.5	67.5	69.8	63.2	69.8	72.3	65.5	67.8	69.8	64.5	67.9	70.2	63.2	66	68.4	63.3	69	75
28-Jan-22	9:17	71.7	73.6	68.5	70.5	72.3	67.6	69.7	71.6	67.5	68.5	70.8	66.8	69.6	71.9	67.9	70.9	72	68.2	70	75
31-Jan-22	9:20	69.8	71.2	65.4	68.9	70.5	67.4	67.5	70.6	65.2	69.9	72.3	66.4	67.5	69.4	64.7	67	69.5	63.7	69	75

Noise Measu	urement	Result	ts (dB)	of NMS	5																
	Start	1st	Leq (51	min)	2nd	Leq (5	min)	3rd	Leq (5)	min)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5)	min)	Leq30min,	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	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)
5-Jan-22	10:10	68.6	70	66.4	69.5	71.6	66.6	68.6	70.7	67.5	68.9	69	66.5	68.7	70	66.5	69.7	70.5	67.7	69	75
11-Jan-22	10:16	69.8	72.3	65.6	68.7	71.6	66.8	68.9	71.2	64.5	69.7	73.2	65.4	67.8	69.9	65.6	68.4	70.4	64.5	69	75
17-Jan-22	9:54	71.2	74.6	66.5	69.8	73.2	64.5	68.4	70.5	66.4	69.1	71.6	65.8	68.3	69.8	66	71.5	73.6	67.2	70	75

 $\label{eq:loss_2016} Z: \label{eq:loss_2016} CEDD \end{tabular} Berlink \end{tabular} A Report \end{tabular} Submission \end{tabular} Monthly \end{tabular} EM \& A \end{tabular} A Report \end{tabular} Submission \end{tabular} A \end{tabular} A \end{tabular} Submission \end{tabular} A \end{tabular} Submission \end{tabular} A \end{tabular} A \end{tabular} Submission \end{tabular} A \end{tabular} Submission \end{tabular} A \end{tabular} A \end{tabular} Submission \end{tabular} A \end{tabular} Submission \end{tabular} A \end{tabular} Submission \end{tabular} A \end{tabular} A \end{tabular} Submission \end{tabular} A \end{tabular} A \end{tabular} A \end{tabular} A \end{tabular} A \end{tabular} Submission \end{tabular} A \end{tabular} A$

Noise Meas	urement	t Result	ts (dB) o	of NMS	5																
	Start	1st	Leq (5r	nin)	2nd	Leq (5)	min)	3rd	Leq (5)	min)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (51	min)	Log20min	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)
28-Jan-22	10:01	68.9	70	66.6	69.4	71.4	66.8	69.5	72.2	67.9	69	71	67.7	68.5	70	66.8	69	71.6	67.9	69	75
31-Jan-22	10:16	66.4	68.9	63.3	67.4	69.8	65.5	68.6	70.4	65.4	69.8	72.3	67.4	67.7	69.7	65.4	71.2	74.5	66.3	69	75

Noise Measu	uremen	nt Resul	ts (dB)	of NMS	6																
	Start	1st]	Leq (5n	nin)	2nd	Leq (51	min)	3rd	Leq (51	min)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	Lag20min	Limit
Date	Time dB(A) dI		L10, dB(A)	/	Leq, dB(A)	L10, dB(A)	L90, dB(A)	Leq30min, dB(A)	Level dB(A)												
5-Jan-22	14:58	68.8	71.6	65.5	69.8	72.3	66	68.9	71.6	65	68.8	71.9	65.7	69.5	72.6	66.8	70.6	73.6	67.8	69	75
11-Jan-22	15:46	67.8	69.4	64.5	66.3	67.4	62.1	65.5	67.8	63.2	65.4	67.1	62.2	64.5	66.5	61	67.8	68.9	64.5	66	75
17-Jan-22	15:25	67.2	68.6	65.4	68.3	70.1	65.4	68.4	71.2	64.5	67.8	69.8	62.3	68	69.9	66.3	67.6	70.4	63	68	75
28-Jan-22	14:47	68.6	71.6	67.5	68.4	71.9	67	68.5	71.8	67.5	69	72.7	68.4	70.4	72.7	68	69.3	71.5	67.7	69	75
31-Jan-22	14:58	66.7	68.9	63.4	68.7	70.5	64.5	67.4	69.8	62	69.4	71.2	66.4	67.7	69.4	65.1	68.7	72.3	63.4	68	75

Noise Measu	uremer	nt Resul	lts (dB)	of NMS	57																
	Start	1st]	Leq (5n	nin)	2nd	Leq (51	nin)	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)
5-Jan-22	15:45	68.3	70.5	65.6	69.4	71.1	66.8	68.3	70.2	66.6	69.5	71.7	67.6	69.7	72.6	67.9	68	71.7	66.7	69	75
11-Jan-22	15:24	66.5	69.3	64	68.1	70.2	65.6	69.8	71.3	66.5	67.8	68.4	66.2	68.1	69.8	66.1	67.4	68.6	65.2	68	75
17-Jan-22	16:23	68.2	69.9	66.2	67.4	69.2	64.6	68.4	69.4	66.9	68.1	69.1	65.5	66.3	67.5	62.4	64.8	66.3	61.3	67	75
28-Jan-22	15:31	67.6	67.6	64.5	68.4	68.9	65	68.5	68.8	65.5	68	68.7	65.4	68.4	68.7	65	69.3	69.5	66.7	68	75
31-Jan-22	15:12	66.4	68.5	62.2	67.4	68.9	65.6	69.8	70.2	67.5	68.4	69.8	66.4	66.3	68.6	62.1	67.4	69.2	63.7	68	75

Noise Measu	uremen	nt Resul	ts (dB)	of NMS	58																
	Start	1st	Leq (5n	nin)	2nd	Leq (51	nin)	3rd	Leq (5)	min)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	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)
7-Jan-22	15:03	59.8	62	57	66.4	67.5	60.5	66.7	69.5	57.5	68.5	71.5	57	65.9	69	56.5	65.8	68	58.5	66	75
14-Jan-22	10:31	61.9	62.7	54.9	59.4	62.1	54.7	60.4	64.4	56.8	60.4	63.3	55.9	61.5	64.6	56.7	60.3	63.6	55.9	61	75
19-Jan-22	15:46	60.5	62	58	60.9	62	58	61	62.5	58.5	60.8	62	58.5	60.2	62	58	60.4	62.5	58	61	75
25-Jan-22	15:48	61	62.5	58	60.2	62	58	60.5	62	58.5	60.6	62	58	60.8	62.5	57.5	59.8	62	57	61	75



NOISE MONITORING RESULT DATABASE FOR CONTRACT 3

Noise Meas	uremer	nt Resul	lts (dB)	of CN1																	
	Start	1st	Leq (5n	nin)	2nd	Leq (51	min)	3rd	Leq (51	min)	4th	Leq (5r	nin)	5th	Leq (5r	nin)	6th	Leq (5r	nin)	Leq30min,	Limit
Date	Time	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	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)
7-Jan-22	16:39	62.4	62	59.5	62.8	63	58.5	63	66	60	62.1	62.5	59.5	63.5	65	58.5	61.7	61.5	59	63	70
14-Jan-22	11:54	64.5	65.9	60	60.4	61.6	59.4	60.5	60.3	59	63.6	63.5	58	64.5	64.3	59.4	62.5	63.3	58.5	63	70
19-Jan-22	17:23	68	73.5	65.5	66.7	72.5	61.5	68.3	75	62.5	66.2	72	60.5	65.1	71	59.5	65.6	71.5	58.5	67	70
25-Jan-22	17;05	68.1	71	60	67.8	70.5	59.5	65.6	69.5	60	66.2	69.5	60.5	66.8	69.5	60.5	67.3	71.5	61	67	70

Noise Meas	uremer	nt Resul	lts (dB)	of CN2	2																
	Start	1st	Leq (5r	nin)	2nd	Leq (5	min)	3rd	Leq (5	min)	4th	Leq (51	nin)	5th	Leq (51	nin)	6th	Leq (5)	min)	Lag 20min	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)
7-Jan-22	16:31	58.7	60	56.5	59.1	60.5	57	67.2	69	57	60.1	60.5	56	58	59	55.5	75	80.5	57	68	70
14-Jan-22	11:18	57.7	58.4	53.8	57.5	59.6	54.8	58.6	60.5	55.7	58.6	59.4	55.7	58.7	59	55.5	59	60	55	58	70
19-Jan-22	16:43	64.5	65.5	60	66.2	69.5	59.5	67.7	70.5	63.5	67	69.5	62.5	67.6	70.5	62	69.8	71	68.5	67	70
25-Jan-22	16:28	66.8	69.5	60	67.5	70	62.5	66.5	70	61	67.9	71	62.5	67.2	70	61.5	67.1	70	61.5	67	70

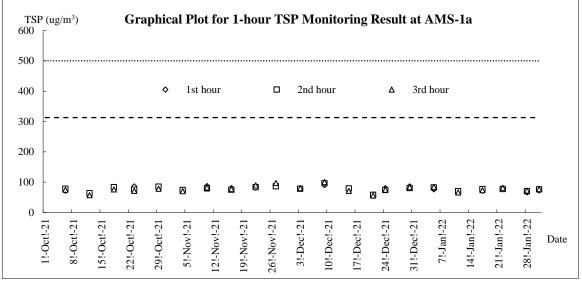
Noise Meas	uremer	nt Resul	lts (dB)	of CN3	\$																
	Start	1st	Leq (5r	nin)	2nd	Leq (5)	min)	3rd	Leq (5	min)	4th	Leq (51	nin)	5th	Leq (51	min)	6th	Leq (5)	min)	Log20min	Limit
Date	Start Time	0.0	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq,	L10,	L90,	Leq30min, dB(A)	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)
7-Jan-22	14:05	66.9	69	59.5	64.6	68.5	58	66.1	69	61	64.7	67.5	61	65	68	61	64.7	66	62.5	65	75
14-Jan-22	9:41	59.7	62.5	54.3	58.5	61.6	53.8	59.5	62.9	54.7	59.9	62.8	54.6	58.4	61.1	53.3	59.7	62.3	54.1	59	75
19-Jan-22	14:31	61.2	63.5	55.5	61.5	64	57	61.2	63.5	57	61.1	63.5	56.5	60.8	64	55.5	61.6	64.5	57	61	75
25-Jan-22	14:33	60.1	63	55	60.9	64	55.5	60.7	63.5	56.5	62	64.5	56.5	62.3	64.5	57	60.5	63	56.5	61	75

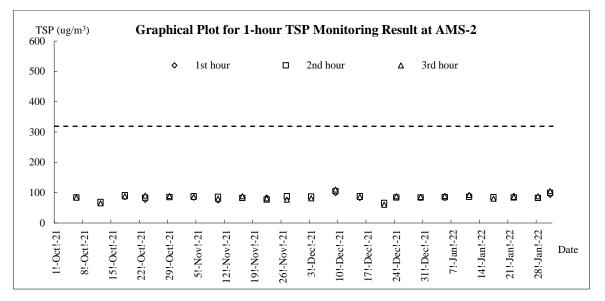
Appendix I

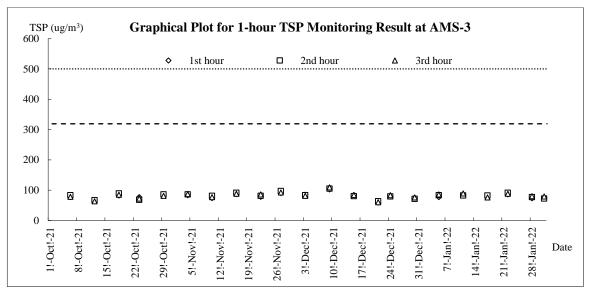
Graphical Plots for Monitoring Result



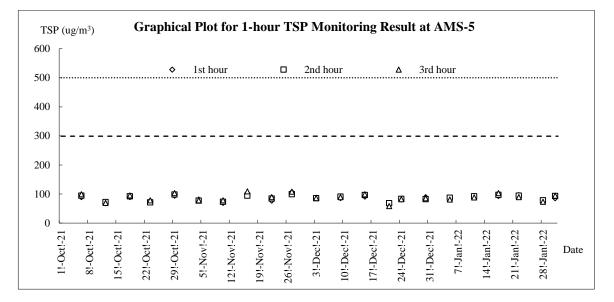
Air Quality – 1-hour TSP

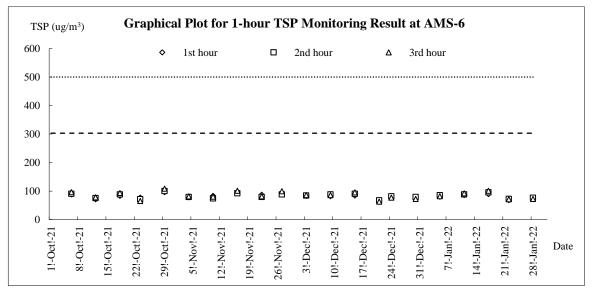


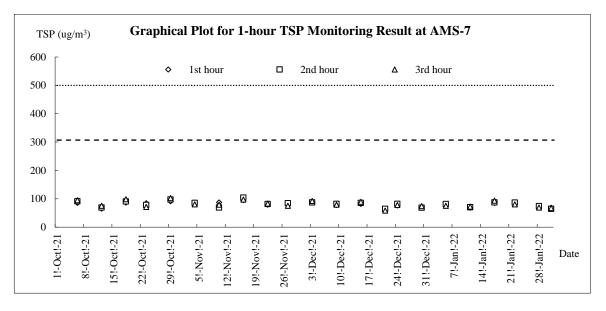








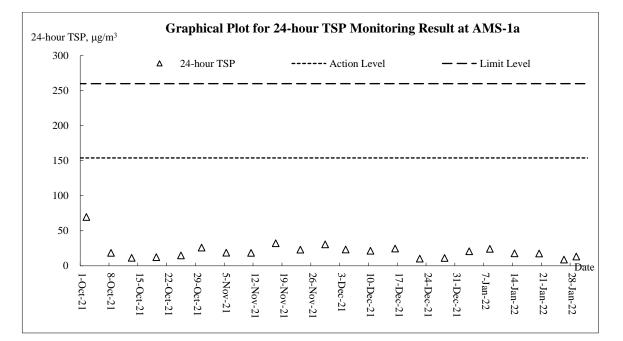


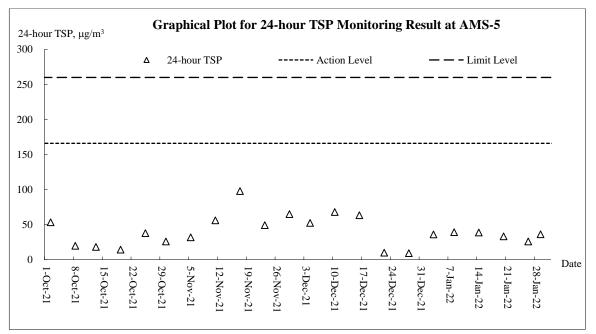


Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\January\R0532v1.docx

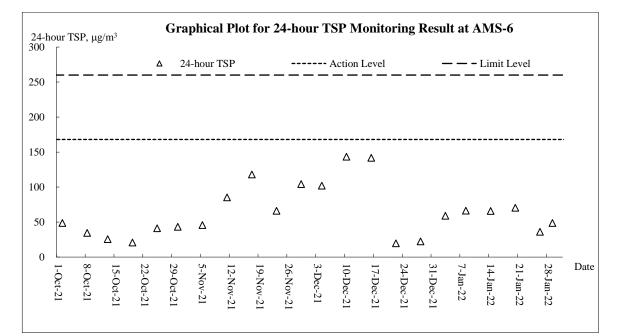


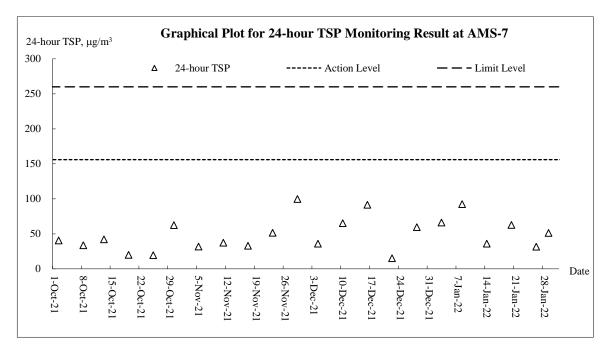
Air Quality – 24-hour TSP





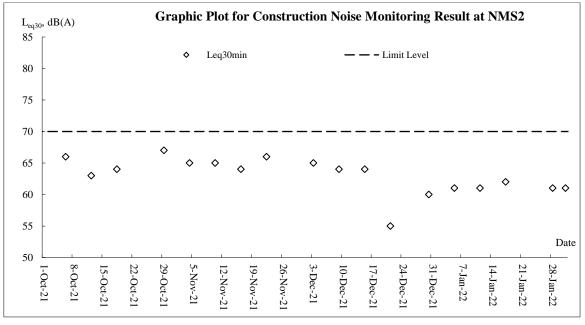


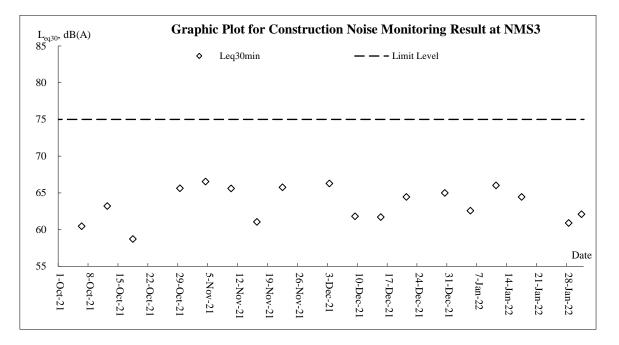


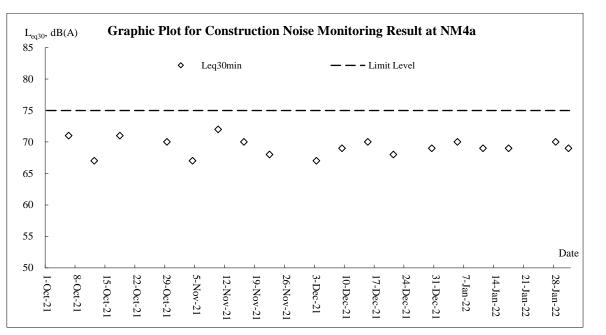




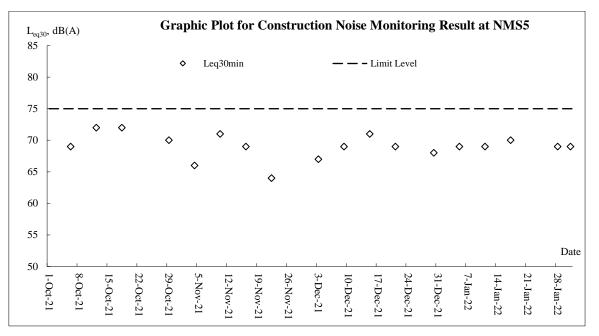
Noise



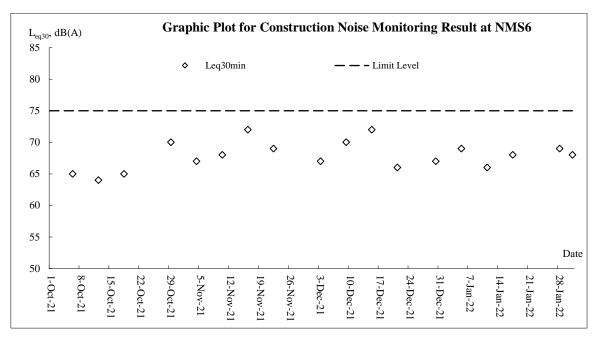


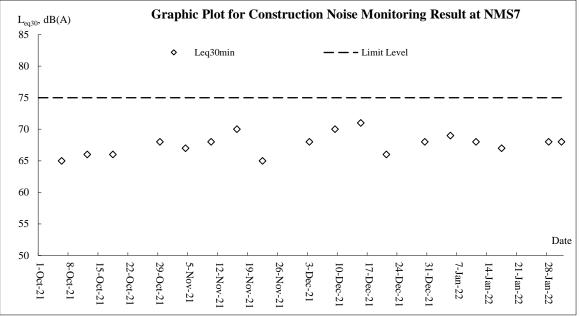


AUES

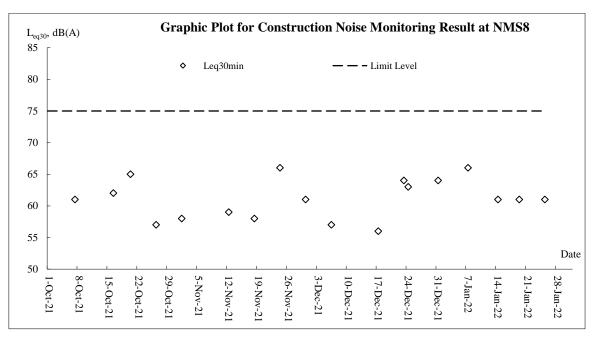


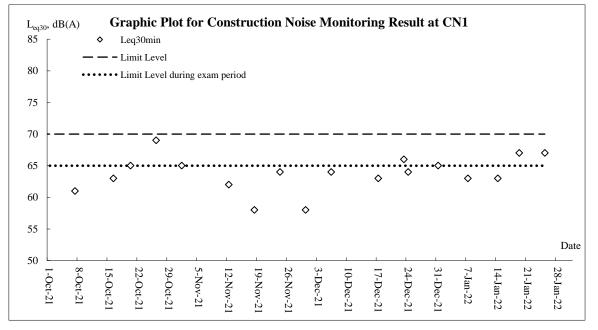




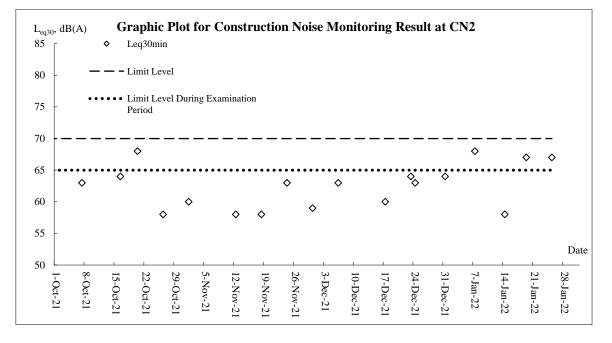


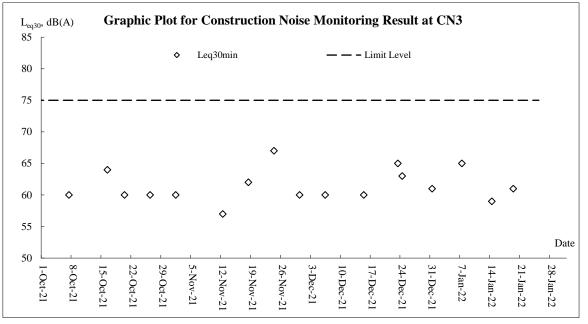














Appendix J

Meteorological Data

CEDD Contract No. NTE/07/2016
Environmental Team for Development of Anderson Road Quarry Site – Site Formation
and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (January 2022)



			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-Jan-22	Sat	Sunny periods in the afternoon.	0	16.9	10.5	E/SE	71
2-Jan-22	Sun	Moderate to fresh easterly winds	0	18.6	9.5	E/SE	69
3-Jan-22	Mon	Becoming cloudy tonight.	0	18.1	12.2	E	72.2
4-Jan-22	Tue	Mainly fine and dry in the afternoon.	0	18.7	12.5	E/SE	67.5
5-Jan-22	Wed	Mainly cloudy tonight.	Trace	20.9	9.2	E/SE	72.5
6-Jan-22	Thu	Moderate to fresh east to northeasterly winds.	0	20.1	12	E/SE	72.5
7-Jan-22	Fri	Mainly cloudy.	Trace	18.1	13	E/SE	74.2
8-Jan-22	Sat	Sunny intervals in the afternoon.	0	17.1	10.5	E/SE	75
9-Jan-22	Sun	Moderate east to northeasterly winds.	0	18	7.5	SE	74.2
10-Jan-22	Mon	Cool in the morning.	0	17.9	10	E/SE	71
11-Jan-22	Tue	Fine and dry. Moderate to fresh northerly winds	1.2	15.4	9	N/NW	67.5
12-Jan-22	Wed	Mainly cloudy and cool in the morning	0	14.7	21.7	E/SE	64.7
13-Jan-22	Thu	Becoming fine and dry in the afternoon.	Trace	16.7	7	N/NE	60
14-Jan-22	Fri	Mainly cloudy.	0	15	11.7	Е	63
15-Jan-22	Sat	Moderate north to northeasterly winds.	0	17.3	10.5	E/SE	71
16-Jan-22	Sun	Sunny periods during the day.	0	19.1	9.2	E/SE	72.5
17-Jan-22	Mon	Moderate to fresh northeasterly winds	0	16.6	13.7	E/SE	84
18-Jan-22	Tue	Cool with one or two rain patches tonight.	0.2	16.2	6	E/SE	83.7
19-Jan-22	Wed	Mainly Fine. Moderate northeasterly winds.	0	17.6	7	SE	64.5
20-Jan-22	Thu	Cloudy with a few rain patches.	0	17.1	11.2	E/SE	66
21-Jan-22	Fri	Moderate to fresh easterly winds	0	17.2	11.2	W/NW	86.7
22-Jan-22	Sat	Moderate to fresh east to northeasterly winds	0	17.2	10.5	SE	79.5
23-Jan-22	Sun	Becoming cloudy. Sunny intervals tomorrow.	0.1	19.4	8	SE	80.5
24-Jan-22	Mon	Sunny periods during the day.	1	19.5	Mainten ance	Maintena nce	86.2
25-Jan-22	Tue	Moderate to fresh northeasterly winds	0	18.5	13.5	E/SE	78
26-Jan-22	Wed	Moderate to fresh easterly winds	Trace	18.8	12.5	E/SE	80
27-Jan-22	Thu	Becoming cloudy tonight.	Trace	20	14.2	SE	82.5
28-Jan-22	Fri	Mainly fine and dry in the afternoon.	Trace	17.5	11.7	Е	87.2
29-Jan-22	Sat	Moderate to fresh easterly winds	0.6	17.9	10.5	N/NE	79
30-Jan-22	Sun	Sunny periods in the afternoon.	0	15.5	8.7	N/NE	52.5
31-Jan-22	Mon	Moderate to fresh easterly winds	Trace	12.8	10.7	N/NE	66.7

Appendix K

Waste Flow Table

		Actual Quan	tities of Inert C&I	D Materials Genera	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 8)	Disposed as Public Fill	Imported Fill	Metals (see Note 9)	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	2.871	0.000	2.517	0.000	0.354	0.000	0.000	0.000	0.015	0.000	0.082
Feb	0.000										
Mar	0.000										
Apr	0.000										
May	0.000										
Jun	0.000										
Sub-total	2.871	0.000	2.517	0.000	0.354	0.000	0.000	0.000	0.015	0.000	0.082
Jul	0.000										
Aug	0.000										
Sep	0.000										
Oct	0.000										
Nov	0.000										
Dec	0.000										
Total	2.871	0.000	2.517	0.000	0.354	0.000	0.000	0.000	0.015	0.000	0.082

Monthly Summary Waste Flow Table for 2022 (year)

Notes:

(1) The performance targets are given in PS Clause 1.119 (14).

(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.

(7) The cut-off date of this summary is 20^{th} of each month.

(8) The Inert C&D materials of reused in other Projects including glass materials.

(9) The C&D waste generation of metal including rechargable battery recycling.

Remarks: refer to Rock and AHM Record (Z:\04 SUPPORT WORK FOLDERS\F. ENVIRONMENTAL\4 - Implementation and Operation\4.4 - Documentation and its Control\11 - WFT, ULSD & Timber\Waste Flow Table\2017-07)

Name of Department : CEDD

Contract No. : ____NE/2016/05

Monthly Summary Waste Flow Table for 2022 (year)

[PS Clause 1.129]

		Actual Quanti	ties of Inert CA	&D Materials G		hhy	Aat	val Overstities a	ford DW 4	0	.11
Month	Total Quantity Generated		Reused in the Contract		Disposed as	Imported Fill	Metals	ual Quantities o Paper/ cardboard packaging	Plastics (see Note 3)	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	0.02	0	0	0	0.02	0	0	0	0	0	0.05
Feb								to the second second provides			
Mar											
Apr								*******			
May											
June											
Sub-total	0.02	0	0	0	0.02	0	0	0	0	0	0.05
July											
Aug											
Sept						9974					
Oct											
Nov						·······					
Dec								100			
Total		·····		and an		······································					

Notes: (1) The performance targets are given in PS Clause 6.14

(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.

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

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

		Actual Quan	tities of Inert C&l	D Materials Genera	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	2.028	0.000	0.882	0.000	1.146	0.000	0.003	0.000	0.003	0.000	0.052
Feb											
Mar											
Apr											
May											
Jun											
Sub-total	2.028	0.000	0.882	0.000	1.146	0.000	0.003	0.000	0.003	0.000	0.052
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	2.028	0.000	0.882	0.000	1.146	0.000	0.003	0.000	0.003	0.000	0.052

Monthly Summary Waste Flow Table for <u>2022</u> (year)

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.

	Ac	ctual Quantitie	s of Inert C&I	O Materials Ge	enerated Mont	hly	Actua	al Quantities o	f C&D Wastes	s Generated M	lonthly
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 (see Note 3)	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)*
2021 Total	608.254	394.831	0.000	0.000	213.423	0.000	0.000	0.000	0.000	0.000	0.044
2022											
Jan	25.019	11.495	0.000	0.000	13.524	0.000	0.000	0.000	0.000	0.000	0.019
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Accumulated Total (2021-2022)	633.273	406.326	0.000	0.000	226.947	0.000	0.000	0.000	0.000	0.000	0.063

Monthly Summary Waste Flow Table

*Remarks: Conversion factor for general refuse, 1 tonne = 2m³

Wing Lee – Univic Joint Venture	Rev. No.	10
ED/2019/02 - Environmental Management Plan	Janua Data	31-Jan-2022
Appendices - Appendix 13	Issue Date	31-Jan-2022

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

Contract No. : _____ED/2019/02

Monthly Summary Waste Flow Table for 2022 (year)

,												
		Annual Quanti	ties of Inert Ca	&D Materials G	enerated Mont	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	0.18	0	0	0	0.18	0	0	0	0	0	0.02	
Feb												
Mar												
Apr												
May												
June												
Sub-total	0.18	0	0	0	0.18	0	0	0	0	0	0.02	
July												
Aug												
Sept												
Oct												
Nov												
Dec												
Total	0.18	0	0	0	0.18	0	0	0	0	0	0.02	

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		Objectives of the Recommended	implement the	Location of the		Imple	ementation §	Status	
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address	implement the measures?	measure	Contract 1	Contract 2	Contract 3	Contract	Contract 5
	Dust Impact (Contraction 1				-	-			
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
\$4.7.6	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 material 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 vehicle; Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle 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	(e)	@	(@	æ	@



			Objectives of the				Imple	ementation S	Status	
EM&A		Recommended Mitigation Measures	Recommended	Who to implement the	Location of the					
Ref.			Measures & Main Concern to Address	measures?	measure	Contract 1	Contract 2	Contract 3	Contract 4	Contract 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	he Location of the		Imple	ementation S	Status	
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address	implement the measures?	measure	Contract 1	Contract 2	Contract 3	Contract 4	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	@	(Contraction of the second sec
\$5.6.11 to \$5.6.13	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

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\January\R0532v1.docx



		Objectives of the				Imple	ementation	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.	Monitortheconstructionnoiselevels at the selectedrepresentativelocations	Contractor	Selected Representative Noise monitoring stations	V	N/A	V	N/A	N/A
В	Water Quality Impact (Cor			-					
\$6.6.3	 <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



EM&A		Objectives of the Recommended im	Who to implement the	Location of the	Implementation Status						
Ref.	Recommended Mitigation Measures	Measures & Main Concern to Address	implement the measures?	measure	Contract 1	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 										



			Objectives of the Recommended	Who to		Implementation Status					
EM&A Ref.		Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract	Contract	Contract	Contract	Contract	
						1	2	3	4	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									
		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.									



		Objectives of the	Who to			Imple	ementation	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	Contract 1	Contract 2	Contract 3	Contract	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. 								
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

		Objectives of the Recommended	Who to	Location of the		Imple	ementation S	Status	
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
	water quality impact after undertaking all required measure								
S6.6.8 and 6.6.9	Accidental Spillage 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		Objectives of the Recommended	Who to implement the	Location of the	Implementation Status						
Ref.	Recommended Mitigation Measures	Measures & Main impleme		implement the measures?	measure	Contract	Contract 2	Contract 3	Contract	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 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	 <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 	Minimize generation construction	waste during	Contractor	All construction sites	V	@	V	@	V	
	drainage systems, sumps and oil interceptors;										

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\January\R0532v1.docx



EM&A		Objectives of the	who to	Location of the		Imple	ementation	Status	
EM&A Ref.	Recommended Mitigation Measures	Recommended Measures & Main Concern to Address	implement the measures?	Location of the measure	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					
\$8.5.3	 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.); 	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	<u>Collection and Transportation of Waste</u> The following recommendation should be implemented to minimize the impacts:	Minimize waste impacts from storage	Contractor	All construction sites	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	Contract 2	Contract 3	Contract 4	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	 Excavated and C&D Material 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 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	<u>Contaminated Soil</u> 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
\$8.5.17	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	@
\$8.5.19	 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
	Ecology (Contraction Phase								
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		Implementation 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		
.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 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.	Contractor	All construction sites	V	N/A	V	V	N/A		



		Objectives of the	XX /1 (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 1	Contract 2	Contract 3	Contract 4	Contract 5
S.10.7.11	 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. 	Minimize impacts on	Contractor	All construction	N/A	N/A	N/A	N/A	N/A
	 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. 	Hydrological condition and water quality of hillside watercourses.		sites					
	Landscape and visual (Con					•		•	
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 2	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	<u>3</u>	0
April 2019	0	0
May 2019	0	0
June 2019	1	0
	1	0
July 2019 August 2019	1	0
September 2019	0	0
October 2019		0
November 2019	4	0
December 2019	0	0
January 2020		0
February 2020	0	0
March 2020	4	0
April 2020	4	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
	2	
March 2021	<u> </u>	0

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
Overall Total	70	0

Appendix M2 Cox

Complaint Log

1	23-Mar- 17	8-Jun- 17	On Tat Estate	Reside nt of On Tat Estate	tructi on	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.	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.		TCS00864/ 16/300/F00 87
2	28-Jul-1 7	28-Jul- 17		Reside nt of On Tat Estate	tructi on	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.		no comment by IEC on 9 Aug 2017	TCS00864/ 16/300/F00 60
3	29-Aug- 17	29-Au g-17	Tat House	On Tat	tructi	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 site.	Noise monitoring was carried out by ET (AUES) and representatives of AECOM and JV in the presence of the complainant in her flat at 3pm on 30 Aug 2017. No exceedance of	5	TCS00864/ 16/300/F00 81
4		29-Au g-17	Tat Yan House, Po Tat Estate	nt of Po Tat	tructi	EPD	$\mathbf{X} / \mathbf{P} + / \mathbf{I}$			IEC on 3 Nov	TCS00864/ 16/300/F00 93



5	22-Jun- 17			Cons	EPD	EPD (ref. N08/R E/0001 9428-1 7)	Day time construction noise of breakers (8AM to 6PM). Requested to delay the operating hour of breakers to 10AM or 11AM	information by the Contractor of Contract 1 - NE/2016/01 (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.		TCS00864/ 16/300/F00 93
6	15-Jul-1 7	Tat Yi House, Po Tat Estate	1014	Cons tructi on noise	EPD	EPD (ref.N0 8/RE/0 00224 79-17)	Construction noise		no comment by IEC on 3 Nov 2017	
7	28-Jul-1 7	Anderso n Road	unkno wn	Dust	EPD	EPD (ref.N0 8/RE/0 00239 86-17)	Poor control on dust emission at Anderson Road Construction Site	CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby	no comment by IEC on 15 Nov 2017	



8	22	2-Aug-1	29-Au g-17	House,	Reside nt of On Tat Estate	tructi	EPD	EPD (ref.N0 8/RE/0 00245 57-17)	Day time construction noise of breakers (8AM to 6PM)	eliminate the inconvenience caused	no comment by IEC on 15 Nov 2017	
9		9-Sep- 7	19-Sep -17	Sau Mau Ping Estate	Reside nt of Sau Mau Ping Estate		SPRO hotline	INA	The complainant is living at Sau Mau Ping Estate Sau Nga House (秀雅樓) 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 investigation about the source of the noise during night time.	activities such as excavation and	IEC on 18 Oct	TCS00864/ 16/300/F00 88

10	21-Sep- 17	13-Oct -17	Sau Nga House	Reside nt of Sau Mau	Cons tructi on noise	EPD	EPD (ref.N0 8/RE/0 00310 74-17)	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
11	27-Sep- 17	13-Oct	Chun Tat House, On Tat Estate	Reside nt of On Tat Estate	tructi	EPD	8/RE/0 00294 89,17)	there were 6 to 7 breakers operating in the monring but only 1 operating in the afternoon. He requested to shift the operation of the breakers to afternoon.	According to the impact noise monitoring result obtained in September and October 2017, there		TCS00864/ 16/300/F01 06
12	3-Oct-1 7		Chun Tat House, On Tat Estate	Reside nt of On Tat Estate	tructi	EPD	EPD (ref. N08/R E/0003 2407-1	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	the inconvenience caused to the nearby resident, CWSTVJV should properly maintain the noise mitigation measures as appropriate.	no comment by IEC on 30 Nov 2017	TCS00864/ 16/300/F01 06
13	25-Oct- 17	26_0ct	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車落 泥,令他達貴樓的住所受到大塵 影響,要求跟進及回覆	Investigation revealed that CWSTVJV has implemented dust mitigation measures to eliminate the inconvenience caused to the nearby	no comment by IEC on 15 Nov 2017	



								miti	vised to enhance the dust itigation measures particularly ring dry season.		
14	6-Nov-1 7	7-Nov- 17	House,	On Tot	Nois e	EPD	NA	安達邨俊達樓居民投訴石礦場 地盤又再於早上 07:45 開始傳出 機器不停揼石的噪音(幾乎每日 在 08:00-19:00 進行工程),已持 續一年,他全家人受到滋擾。	tigation massures to reduce the	no comment by IEC on 30 Nov 2017	TCS00864/ 16/300/F01 09
15	13-Nov- 17	14-No	Chi Tai House, On Tai Estate	Mr. Lam Wai	light pollu tion and noise	SPRO hotline		1. 智泰樓面向安達臣地盤方 CW 向,有照射燈深夜時分仍然常 and 開,影響居民正常睡眠質素,照 For 成一定的精神壓力。 CW 2. 隔音布未固定,大風吹過發出 the 極大的聲浪 Esta	WSTVIV has immediately fixed	no comment by IEC on 24 Nov 2017	

16	1-Nov-1 7	14-No v-17	Shing Tat House, On Tat Estate	Reside nt of Po Tat Estate	Nois e	EPD	NA	訴人投訴由早上八時半至下午 六時聽到揼鐵噪音。	To enhance the noise mitigation measures, CWSTVJV deployed an acoustic mat as noise barrier for the breaking work in order to reduce construction noise affecting the upper floor of On Tat Estate 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 13 Dec 2017	
17	25-Aug- 17	26-Oct -17	Sau Yee House, Sau Mau Ping Estate	nt of	Cons tructi			Night time construction noise of hammering (around 12AM)	not generate significant noise.	no comment by IEC on 14 Dec 2017	



18	12-Sep- 17	26-Oct -17	Chun Tat House, On Tat Estate	Reside nt of	Cons tructi on Nois e	EPD		Day time construction noise of breakers (8AM to 5PM) breakers (000000000000000000000000000000000000		IEC on 10 Jan	TCS00864/ 16/300/F01 17
19	15-Dec- 17		Sau Yee House	Sau Mau	tructi	EPD	NA	Resident of Sau Yee House check complained suspected const construction noise from Anderson out at Construction Site at restricted hour (7pm to 7am).	astruction activities were carried after 19:00 at the subject site.	no comment by IEC on 10 Jan 2018	TCS00864/ 16/300/F01 18
20	20-Dec- 17		On Tat Estate	Reside nt of On Tat Estate	Dust	EPD	NA	非常大塵。 投訴人住於安達 邨,投訴安達臣道石礦場有大地 盤,地盤大車工作時間不停出入 enhar	igation measures to eliminate the onvenience caused to the nearby ident. It is considered that the nplaint was an isolated case due to lfunction of water tanker and VSTVJV has promptly rectified the ficiency. As advised by VSTVJV, another water tanker will deployed in mid-January 2018 to nance the dust suppression asures throughout the construction	no comment of	TCS00864/ 16/300/F01 21



2	28-Dec- 17	10-Jan -18	Sau Yee House	Reside nt of Sau Mau Ping Estate	Cons tructi on Nois e	CE's office	NA	Thomas 先生吵醒,懷疑有人刻 Level under the EM&A Programme.	no comment by IEC on 8 Feb 2018	TCS00864/ 16/300/F01 29
22	, 15-Jan- 18	15-Jan -18	Chun Tat House	Reside nt of Chun Tat House of On Tat Estate, 40/F	Cons tructi on Nois e	SPRO mobile	NA	completion date of the breaking ENI&A requirement. However, to	no comment by IEC on 8 Feb 2018	TCS00864/ 16/300/F01 30



										project did not breach the Noise Control Ordinance.		
2	3	1-Feb-1 3	2-Feb- 18	Chi Tai House of On Tai	Estate (referr ed by	tructi	SPRO hotline	NA	"智泰對出,白天噪音過大,可否 加裝隔音板 ? 高層受影響"	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) which below the Limit Level under the EM&A Programme. In our investigation, CWSTVJV has implemented noise 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.	no comment by IEC on 22 Feb 2018	TCS00864/ 16/300/F01 37
2	4	1-Feb-1 3	18	Shing Tat House of On Tat Estate	House (referr		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	no comment by IEC on 28 Feb 2018	TCS00864/ 16/300/F01 40



									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.		
2:	28-Feb- 18	28-Feb -18	Shing Tat House of On Tat Estate	Reside nt of Shing Tat House	tructi	EPD	INA	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.	no comment by IEC on 19 Mar 2018	TCS00864/ 16/300/F01 43

26	11-Apr- 18	12-Apr -18	of On Tat	nt of Him Tat	tructi	SPRO mobile	NA	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.	• •	no comment by IEC on 7 May 2018	TCS00864/ 16/300/F01 60b
27	25-Apr- 18	-18	Street and Hiu Ming Street	but name of	Cons tructi on Nois e	EPD		This case is considered as an enquir	ry and no investigation is required und	er the EM&A Prog	ramme.
28	18-May -18	24-Ma y-18	Anderso n Road Quarry Site	Undisc losed	Cons tructi on Nois e	EPD	NA	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	were no construction activities	no comment by IEC on 30 July 2018	TCS00864/ 16/300/F01 74b

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\January\R0532v1.docx



									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.		
29	25-Jun- 18	19-Jul- 18	vely E8 under Contract	DC membe r Ms. So	Wast e Mana geme nt	CEDD	NA	leaves and branches found at slope (GLA-TNK 2458) near Hiu Yuk Path on 25 June 2018. The complainant requested the relevant department to clear the	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	no comment by IEC on 24 Sep 2018	TCS00864/ 16/300/F01 89b
30	22-Aug- 18	29-Au g-18	Hong Wah Court	Hong	tructi on	1823 Hotlin e	NA	吳先生於 2018 年 8 月 22 日致電 1823 熱線投訴,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 部門跟進。*註:投訴人於 2018 年 8 月 27 日更正指受影響屋苑 應為藍田康華苑。	of construction plant equipment.	no comment by IEC on 7 Sep 2018	TCS00864/ 16/300/F01 96a

		31-Jul- 18	Anderso n Road Quarry Site	Undisc losed	Cons tructi on Nois e	EPD	NA	安達邨誠達樓後面地盤,2月26 日晩,晚上7時後,還在落石屎, 相片拍攝時間大概晚上9時半, 一直至晚上十一時五十分還有 工程車在地盤行駛。影響居民休 息。	with valid CNP were completed at 23:00. It is considered that the complaint was not valid to the Project. Nevertheless, CWSTVJV was reminded that in case of any work activities need to be carried out during restricted hours, CWSTVJV should strictly follow the requirements specified in the valid CNP.	IEC on 10 Oct	TCS00864/ 16/300/F01 97a
 32	6-Sep-1 8		Tsui Yeung House	Reside nt of Tsui Yeung House	tructi on	Verbal		Mr. CHENG Keung-fung complained that the contractor has conducted the noisy works such as rock excavation beyond the normal hours.	implemented continuously during	IEC on 22 Oct	TCS00864/ 16/300/F02 01
33	24-Oct- 18	25-Oct -18	E3	Kwun Tong DC membe r Ms. So Lai-ch	Cons tructi on Nois e	Whats app Messa ge	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	no comment by IEC on 23 Nov 2018	TCS00864/ 16/300/F02 09a



				un					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.		
34	12-Nov- 18	13-No v-18	Anderso	House(referre dby	on	SPRO Hotlin e	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.	be closely updated to nearby stakeholders to enhance communication. Mr. Hiu satisfied with the really from SPPO and he	no comment by IEC on 12 Dec 2018	TCS00864/ 16/300/F02 22a

35	14-Nov- 18	14-No	Anderso n Road Quarry Site	Undisc	Light and Nois e		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。	CWSTVJV immediately adjusted the angle and brightness of the lighting to minimize the nuisance to the resident nearby. In response to the complaint, CWSTVJV immediate carried out remedial action to minimize the nuisance to the public. It was considered that complaint for noise generated by machine moving was an isolated case. CWSTVJV was reminded to closely monitor the plant use and sequence of night work and do not to violate CNP conditions.	no comment by IEC on 3 Jan 2019	TCS00864/ 16/300/F02 23a
36	13-Nov- 18	14-No	Anderso n Road Quarry Site	Undisc losed	Nois e 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.	and there were no violation of the	no comment by IEC on 18 Feb 2019	TCS00864/ 16/300/F02 24



37	9-Dec-1 8	-18	Anderso n Road Quarry Site	Undisc losed	Cons tructi on noise		2-4927 90730 5	1823 has referred a case to CEDD in on 10 December 2018, which the th complainant complained that ur construction noise was generated from project site on Sunday and co was affecting the resident at Hau Tat House, On Tat Estate. The th complainant requested follow up to action from related department as soon as possible.	here was no site activities indertaken at site access road as concerned by the complainant. The construction work carried out on Sunday was fully compliance with he CNP requirement. In response o the complaint, CWSTVJV was eminded to closely monitor the plant use and sequence of night work and lo not to violate CNP conditions.	no comment by IEC on 10 Jan 2019	TCS00864/ 16/300/F02 30a
38	19-Dec- 18		Anderso n Road Quarry Site	Undisc losed	Cons tructi on noise	1823	2-4948 07412 7	1823 has referred a case to CEDD on 27 December 2018, which the complainant complained that noise barriers near the round-about at On Sau Road were not enough, and construction noise generated from the project site was affecting the resident at Ming Tai House, On Tai Estate. The complainant requested follow up actions from related department as soon as possible.	oint site inspection was carried out on 3 January 2019 the status of mplemented mitigation measures provided by CWSTVJV was inspected. It was observed that noise mitigation measures including emporary 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 the works under the project did not breach the Noise Control Ordinance.		TCS00864/ 16/300/F02 37a
39	24-Jan- 19	-19	Anderso n Road Quarry Site		waste water		NA	DSD has referred a case to CEDD In on 24 January 2019 regarding ca suspended illegal discharge of cementitious slurry from Ra construction site of Development th of ARQ Site to nearby Public is	n our investigation, the concerned eatchpit and U-channel mainly eceived the runoff from Po Lam Road as well as the discharge from he Anderson Road Quarry Site. It	no comment by IEC on 29 Mar 2019	TCS00864/ 16/300/F02 48a

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\January\R0532v1.docx



									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.		
4	()			Undisc losed	n_{01c}	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	no comment by IEC on 15 Mar 2019	TCS00864/ 16/300/F02 49a
4		-19	Anderso n Road Quarry Site	Undisc losed	noise		2-4948 07412 7	1823 has referred a case to CEDD on 15 February 2019, which the complainant complained about the construction noise generated from the CEDD site near 法源寺 (Ma Yau Tong Village). The complainant requested for the details of works and the completion date, the complainant also requested CEDD to use other construction methods in order to	In response to the complainant, CWSTVJV has proposed alterative quiet work method to alleviate the noise impact to the public. They will schedule the noisy activities to be carried out after 10am as far as practicable to minimize the impact to resident nearby, given that not	no comment by IEC on 29 Mar 2019	TCS00864/ 16/300/F02 51a

4	2	21-Feb- 19	25-Feb	Anderso n Road Quarry Site	Undisc losed	noise	EPD	NA	The resident from Sau Hong House complained that the noise from the 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 proof measure has lessen as time goes. Follow action is requested.	such as maintain good site practices such as intermittent use of machine and plant and Sequencing operation of construction plant equipment	no comment by IEC on 28 Mar 2019	TCS00864/ 16/300/F02 50
4	3	21-Feb- 19		Anderso n Road Quarry Site	Undisc losed	noise	receive d by DEVB and referre d 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	continually. Alterative quiet work	no comment by IEC on 29 Mar 2019	TCS00864/ 16/300/F02 52a

44	1-Mar-1 9	26-Feb -19		Undisc losed	noise	CEDD	NA	The representative of the engineering team explained to Mr. Cheng about the 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. 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.	no comment by IEC on 6 May 2019	TCS00864/ 16/300/F02 64
45	16-Jun- 19	18-Jun	Anderso n Road Quarry Site	Undisc losed	noise	EPD	NA	I / line /lily regarding the	no comment by IEC on 21 August	TCS00864/ 16/300/F03 01a

46	12-Jul-1 9	15-Jul-	Anderso n Road Quarry Site	Undisc losed	dust	EPD	NA	dust impact to the residents at Po July 2019 in typical rainy season in Tat Estate and On Tat Estate due to the dust emission at Anderson Road Quarry site.Hong Kong and the dust impact was considered not significant in 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.	no comment by IEC on 12 August 2019	TCS00864/ 16/300/F02 92b
47	6-Aug-1 9	14-Au g-19	(Slope of Hiu Ming	服務 辦事 處	Nois e	1823	NA	1 0	no comment by IEC on 16 Sep 2019	TCS00864/ 16/300/F03 10a

CEDD Contract No. NTE/07/2016
Environmental Team for Development of Anderson Road Quarry Site – Site Formation and Associated Infrastructure Works
Monthly Environmental Monitoring & Audit Report (January 2022)



48	15-Oct- 19	18-Oct -19	Work Area Portion 6 (Tseung Kwan O Tunnel Bus-Bus Intercha nge Pedestri an Connecti vity Facilitie s E12)	Mr. Ng	Nois e	1823	NA	Connectivity Facilities E12. The nuisance to the public. As the complainant expressed that the works were carried out within the construction noise was generated from breaking work at 8:20 am without noise mitigation measure, not breach the Noise Control which causing nuisance to the ordinance. Kwan On was reminded to implement the mitigation measures as far as practicable as recommended in the EM&A Programme.	no comment by IEC on 13 Nov 2019	TCS00864/ 16/300/F03 26a
49	5-Nov-1 9	11-No v-19	Work Area Portion 2&3 (lift tower construc tion work at Hiu Kwong Street)		Nois e	EPD	NA	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 by EPD relating to the noise generated from breaking work of lift tower construction work at Hiu Kwong Street (Portion 2&3). Kwong Street (Portion 2&3).	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 32a

							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.	
10-N	ov- 12-No 19 v-19	Underpa ss	 Nois e	EPD	NA	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。 On 11 November 2019 寶琳路近馬游塘村開掘隧道的 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 跳村屋。龚翊政府部門	the concern.	no comment by IEC on 30 Dec 2019



TCS00864/

16/300/F03

TCS00864/

16/300/F03

37

33a

no comment by

IEC on 27 Dec

2019

In our investigation, Kwan On has implemented noise mitigation measures to reduce the noise impact

Nevertheless, since the construction site is close to the residential area.

to the nearby resident.

寶達邨居民鄭先生,表示將軍澳 adequate noise mitigation measures

隧道出口工程,日間噪音嚴重, shall be provided to reduce to noise

8:30-17:00, 幾部幾同時開動, 而 nuisance to the public. As the

且無防音欄, 之前是有, 現要求 works were carried out within the

Work

11-No Area

v-19 Portion

7-Nov-1

9

50

51

Mr.

Cheng e

Nois

EPD

NA



52	11-Nov- 19	20-No v-19	Estate Ancillar y Facilitie s Building	Wong (reside nt of Yung Tai House of On Tai	Nois e	1823	ref. 2-5976 30318 3	noise nuisance near On Sau Road of the temporary noise barriers such	no comment by IEC on 27 Dec 2019	TCS00864/ 16/300/F03 38a
53	5-Mar-2 0	6-Mar- 20	Tunnel work of Anderso n Road Quarry Site (the Underpa ss)	nt of On Tat		EPD	NA	immodiatoly installed a layer of	no comment by IEC on 1 Apr 2020	TCS00864/ 16/300/F03 57a



54	4-Mar-2 0	17-Ma r-20	0		Nois e	1823	ref. 3-6283 23717 1	樓附近有兩個地盤 , 地盤由星 期一至五,每天早上約 9AM-5 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 two construction sites near Hiu Ming Street Playground construction noise	that the complaint is likely related to another construction site located near Hiu Ming Street Playground and not caused by the works under the	no comment by IEC on 15 Apr 2020	TCS00864/ 16/300/F03 59a
55	23-Mar- 20	23-Ma	Near Lin Tak Road (E11)	Undisc		Project hotline	NA	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,令梁先生的車輛每次駛經時被濺濕及弄污,請問有何措施改善問題? A public complaint was received by project hotline on 23 March 2020 regarding overflow of muddy water from the construction site. The complainant mentioned that muddy water came out from site	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 comment by IEC on 15 Apr 2020	TCS00864/ 16/300/F03 60a

56	17-Mar- 20	r-20	Anderso n Road Quarry Site	Reside nt of Yan Tat House	Nois e	Project hotline	NA	-	IEC on 11 May	TCS00864/ 16/300/F03 61a
57	1-Apr-2 0	20-Apr	Work Area Portion 2	Undisc losed	Nois e	1823	NA	雷郵回覆工程長的原因及有沒 nuisance to the public. It is concluded	2	TCS00864/ 16/300/F03 66a



							construction site in Hui Ming as far as practicable as recommended Street. The complainant in the EM&A Programme. concerned about the slow progress and implementation of noise mitigation measures to alleviate the noise impact arising from the construction work.		
58	11-May -20	Work Area Portion 2	Undisc losed	Nois e	Project hotline	NA	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、噪音監控標準及措施。 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 of construction work, construction noise level standard and implementation of noise mitigation measures on site.	no comment by IEC on 28 May	TCS00864/ 16/300/F03 70a



59	18-Jun- 20	23-Jun _20	Anderso n Road Quarry Site, System B	Undisc losed	Nois e	EPD	NA	percussive piling, before 7pm under the CNP and hoped that the Contractor could arrange the noisy construction works to be carried out before 6pm. According to the information provided by the complainant, it is suspected complaint location would be Anderson Road Quarry Site, System B.	no comment by IEC on 17 July 2020	TCS00864/ 16/300/F03 91a
59 #	23-Jul-2 0	24-Jul-	Anderso n Road Quarry Site near On Tat Estate	Undisc losed	Nois e	EPD	NA	Road Quarry Site near On Tat mitigation measures, there were no	no comment by IEC on 25 August 2020	TCS00864/ 16/300/F04 01

S

60	14-Nov- 20	18-No v-20	0	Undisc losed	Nois e	1823	NA	by 1823 on 14 November 2020 regarding the construction noise. The complainant mentioned that there was piling works at Hiu Ming Street Playground, generating huge noise during 9AM to 10AM on 14 November 2020. He/she requested relevant department to follow up	normal hours with implementation of noise mitigation measures, there were no violation of legislative requirement	IEC on 4	TCS00864/ 16/300/F04 24
61	4-Dec-2 0	7-Dec- 20		Undisc losed	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 opposite to On Tai Estate had dust emission problem due to lack of water spraying. He/she requested relevant department to follow up	resident. In view of the potential	IEC on 4	TCS00864/ 16/300/F04 34
62	3-Dec-2 0	7-Dec- 20	$V_{1112}\sigma e$	Undisc losed	Nois e and dust	1823 & EPD	3-6574 14101 7	arising from the project. There were acoustic mats erected on the slope of East Portal, however, the	Contractor extended the noise barrier to encircle noisy activity. Since the works were conducted within approved normal hours with	IEC on 4	TCS00864/ 16/300/F04 35



63	7-Jan-2 1	7-Jan- 21	System B	Reside nt of Yan Tat House	Nois e	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 relevant department to follow up.	not breach the Noise Control	IEC on 19 July	TCS00864/ 16/300/F04 41
64	18-Mar- 21		Anderso n Road Quarry Site (betwee n On Tat Estate and On Tai Estate)		Nois e	1823 & EPD	NA	18 March 2021 regarding the construction noise generated from construction works at Anderson Road Quarry Site between On Tat Estate and On Tai Estate. The complainant expressed that construction works of the site started from 6:45am everyday which causing noise disturbance to the nearby resident and he/ she requested relevant department to	Ordinance. Nevertheless, as the	no comment by IEC on 1 April 2021	TCS00864/ 16/300/F04 54
65	1-Apr-2 1	1-Apr- 21	Lohn'e	Undisc losed	Nois e	EPD	NA	A complaint was received 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	works were carried out within the	no comment by IEC on 19 July 2021	TCS00864/ 16/300/F04 58a

Z:\Jobs\2016\TCS00864 (CEDD)\600\EM&A Report Submission\Monthly EM&A Report\2022\January\R0532v1.docx

			School (System B under Contract 3)					mitigation measures provided in the construction site	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 measures as far as practicable as recommended in the EM&A Programme		
e	56	28-Mar- 21	Quarry Site (betwee n On Tat Estate and On	House of On	Nois e	EPD	K15/K	A public complaint was received by EPD on 28 March 2021 regarding the construction noise generated from construction works at Anderson Road Quarry Site until 9pm on Monday to Saturday. Moreover, the complaint concerned about the construction noise heard on 28 March 2021 which was a Sunday.	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	IEC on 22 April	TCS00864/ 16/300/F04 59
(57	11-Jun- 21	Anderso n Road Quarry Site	Reside nt of Chi Tat House, On Tai Estate	Nois e	EPD	Ref.:	from multiple construction sites on Anderson Road Quarry Site. The complainant stated that there were noise nuisances from different construction sites from 0800 am to 1800 pm from Monday to Saturday without adequate noise mitigation measures. On 17 June 2021, the complainant added that the noise	acoustic barrier at boundary of	IEC on 19 July	TCS00864/ 16/300/F04 78a

(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- 21	Anderso n Road Quarry Site	Wate r Quali ty	EPD	EPD Ref.: 13208- 21	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.	were unlikely due to the CI Project.	no comment by IEC on 6 August 2021	TCS00864/ 16/300/F04 85b
69	14&16/ Sep/21	15-Sep - 21	Anderso n Road Quarry Site	Wate r Quali ty	EPD	NA	EPD received complaints from DSD on 14 Sep 2021 and 16 Sep 2021 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.	immediately. Having investigated,	no comment by IEC on 6 October 2021	



							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.		
70	23/Sep/ 21	29-Sep -21	Anderso n Road Quarry Site	CEDD & EPD	CEDD &EPD	A public complaint was referred by 1823 to both CEDD and EPD on 23 September2021. The complainant stated that the construction works at Anderson Road Quarry Site started before 7am, which generated construction noise and affecting the upper floor resident of On Tat Estate. EPD have contacted the complainant and clarify that the concerned about construction dust and daytime construction noise after 7am.	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, CWSTVJV was reminded to properly maintain the noise mitigation measures as far as practicable considering the construction site is relatively close to residential area.	No comment by IEC on 15 November 2021	



Appendix N

Implementation Status for Water Quality Mitigation Measures

Water Quality Mitigation Measure

