JOB NO.: TCS00975/18

CEDD CONTRACT AGREEMENT NO. EDO/04/2018 - ENVIRONMENTAL TEAM FOR CROSS BAY LINK, TSEUNG KWAN O

QUARTERLY ENVIRONMENTAL MONITORING AND AUDIT (EM&A) SUMMARY REPORT

(DECEMBER 2021 TO FEBRUARY 2022)

PREPARED FOR
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT (CEDD)

Date	Reference No.	Prepared By	Certified By
28 June 2022	TCS00975/18/600/R0618v2		
		Martin Li (Environmental Consultant)	Tam Tak Wing (Environmental Team Leader)

Version	Date	Remarks
1	12 April 2022	First Submission
2	28 June 2022	Amended As Per IEC' comment on 28 June 2022

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

Our ref: PL-202206037

AECOM Asia Company Limited
8/F., Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, New Territories, Hong Kong

Attention: Mr. Conrad NG

28 June 2022

Dear Sir,

Contract No. NE/2017/07 & NE/2017/08
Cross Bay Link, Tseung Kwan O
Quarterly EM&A Report for December 2021 to February 2022

I refer to the email of the ET concerning the Quarterly EM&A Report for December 2021 to February 2022 (Version 2) with Ref. No. TCS00975/18/600/R0618v2. We have no adverse comment on it and verify the captioned monthly report according to Conditions 1.9 and 4.4 of Environmental Permit with No. EP-459-2013.

Yours faithfully,

Li Wai Ming Kevin
Independent Environmental Checker

cc. Mr. T.W. TAM (ETL)
Ms. Sheri S.Y. LEUNG (CEDD)

EXECUTIVE SUMMARY

ES01 Civil Engineering and Development Department (hereafter referred as "CEDD") is the Project Proponent and the Permit Holder of the Project Cross Bay Link, Tseung Kwan O (hereinafter referred as "the Project") which is a Designated Project to be implemented under Environmental Permit number EP-459/2013 (hereinafter referred as "the EP-459/2013" or "the EP").

ES02 AUES was awarded the CEDD Contract Agreement No. EDO/04/2018 - Environmental Team for Cross Bay Link, Tseung Kwan O (hereinafter called "the Service Contract"). 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 Approved 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 Agreement No. CE 43/2008 (HY) Cross Bay Link, Tseung Kwan O - Investigation and other relevant statutory requirements.

ES03 This is the **13th** Quarterly EM&A report presenting the monitoring results and inspection findings for the reporting period from **1 December 2021** to **28 February 2022** (hereinafter 'the Reporting Period').

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES04 Environmental monitoring activities under the EM&A program in this Reporting Period are summarized in the following table.

Table ES-4 Summary Environmental Monitoring Activities Undertaken in the Reporting Period

Issues	Environmental Monitoring Parameters / Inspection		Sessions
Air Quality	1-Hour TSP		90
	24-Hr TSP		32
Construction Noise	Leq (30min) Daytime		36
	Leq (5min) Evening(Note 1)		6
	Leq (5min) Night(Note 1)		3
Water Quality	Marine Water Sampling(Note 2) (Note 3)		0
Inspection / Audit	Contract 1	ET Regular Environmental Site Inspection	12
		Joint site audit with Project Consultant and IEC	3
	Contract 2	ET Regular Environmental Site Inspection	12
		Joint site audit with Project Consultant and IEC	3

Note 1 Total sessions are counted by every 3 consecutive Leq5min
Note 2 Total sessions are counted by monitoring days
Note 3 Since the marine construction works that requires marine water quality monitoring as stated in the EM&A Manual were completed, the impact water quality monitoring was ceased with effect from 1 May 2020.

BREACH OF ACTION AND LIMIT (A/L) LEVELS

ES05 No air quality monitoring exceedance was recorded in this Reporting Period. For construction noise monitoring, one (1) nighttime noise action level exceedance due to one (1) noise complaint received, two (2) evening and three (3) nighttime noise monitoring limit level exceedances were recorded in this Reporting Period. The statistics of environmental exceedance and investigation of exceedance are summarized in the following table.

Table ES-5 Summary Environmental Monitoring Parameter Exceedance in the Reporting Period

Environmental Issues	Monitoring Parameters	Action Level	Limit Level	Event & Action	
				Investigation Results	Corrective Actions
Air Quality	1-Hour TSP	0	0	--	--
	24-Hr TSP	0	0	--	--
Construction Noise	Leq_{30min} Daytime	0	0	--	--
	Leq_{5min} Evening	0	**2**	Not project related	NA
	Leq_{5min} Night	**1**	**3**	Not project related	NA
Water Quality (Marine Water)	DO	0	0	--	--
	Turbidity	0	0	--	--
	SS	0	0	--	--

ENVIRONMENTAL COMPLAINT

ES06 Two (2) environmental complaints were recorded in this Reporting Period for the Project. The statistics of environmental complaint are summarized in the following table.

Table ES-6 Summary Environmental Complaint Records in the Reporting Period

Reporting Period	Contract	Environmental Complaint Statistics			Related with the Works Contract(s)
		Frequency	Cumulative	Complaint Nature	
1 December 2021 – 28 February 2022	1	1	25	Noise	Not related
	2	1	16	Water	Not Project Related

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES07 No environmental summons or prosecutions was received in this Reporting Period for the Project. The statistics of environmental summons or prosecutions are summarized in the following tables.

Table ES-7 Summary Environmental Summons Records in the Reporting Period

Reporting Period	Contract	Environmental Summons Statistics			Related with the Works Contract(s)
		Frequency	Cumulative	Complaint Nature	
1 December 2021 – 28 February 2022	1	0	0	NA	NA
	2	0	0	NA	NA

Table ES-8 Summary Environmental Prosecutions Records in the Reporting Period

Reporting Period	Contract	Environmental Prosecution Statistics			Related with the Works Contract(s)
		Frequency	Cumulative	Complaint Nature	
1 December 2021 – 28 February 2022	1	0	0	NA	NA
	2	0	0	NA	NA

SITE INSPECTION BY EXTERNAL PARTIES

ES08 No site inspection was undertaken by EPD and AFCD within the Reporting Period.

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1. INTRODUCTION

1.1 PROJECT BACKGROUND

1.1.1 Civil Engineering and Development Department (hereafter referred as "CEDD") is the Project Proponent and the Permit Holder of the Project Cross Bay Link, Tseung Kwan O (hereinafter referred as "the Project") which is a Designated Project to be implemented under Environmental Permit number EP-459/2013 (hereinafter referred as "the EP-459/2013" or "the EP").

1.1.2 AUES was awarded the CEDD Contract Agreement No. EDO/04/2018 - Environmental Team for Cross Bay Link, Tseung Kwan O (hereinafter called "the Service Contract"). 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 Approved 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 Agreement No. CE 43/2008 (HY) Cross Bay Link, Tseung Kwan O - Investigation and other relevant statutory requirements.

1.1.3 As part of the EM&A programme, baseline monitoring shall be undertaken before the Project construction work commencement to determine the ambient environmental condition. The baseline air quality, background noise and water quality monitoring has been carried out between ***21st September 2018*** and ***13th November 2018*** at the designated and interim locations. The baseline monitoring report under the EP-459/2013 has been compiled by the ET and verified by Independent Environmental Checker (hereinafter the "IEC') prior submitted to EPD on ***19th November 2018*** for endorsement.

1.1.4 This is the **13th** Quarterly EM&A report presenting the monitoring results and inspection findings for the reporting period from **1 December 2021** to **28 February 2022** (hereinafter 'the Reporting Period').

1.2 REPORT STRUCTURE

1.2.1 The Environmental Monitoring and Audit (EM&A) Monthly 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	*Impact Monitoring Results*
Section 5	*Waste Management*
Section 6	*Site Inspections*
Section 7	*Landfill Gas Monitoring*
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 AND SUBMISSION

2.1 PROJECT ORGANIZATION

2.1.1 The project organization is shown in ***Appendix B***. The responsibilities of respective parties can be referred to Monthly Report.

2.2 CONSTRUCTION PROGRESS

2.2.1 3-month rolling construction program of each Works Contract is enclosed in ***Appendix C***; and the major construction activities undertaken in the Reporting Period is presented in below sub-sections.

Contract 1 (Contract No. NE/2017/07)

2.2.2 The major construction activities of Contract 1 undertaken in this Reporting Period are:-

- Predrilling, Pilling Work, Precast Segment Fabrication, Precast Pier Fabrication, Precast Shell Installation at Portion I
- E&M Work and External Work at Portion V Plant Room Building
- Welding work of parapet base plate on steel bridge
- Waterproofing works for division area and footpath area for steel bridge
- Precast segment fabrication, shell installation for Portion I.
- Piling Work for Portion I.
- E&M work and External Work at Portion V.
- Touch up paining and painting of east and west side spans ring weld.
- Welding of L3 parapet base plated on steel bridge.
- Waterproofing works for division area, footpath area and cycle track area for steel bridge.
- Top tension and transverse tension, bottom tension, and external tension at Portion II.
- Construction of long stitching and planter wall at Portion II.
- Concrete surrounding for ducting at Portion II.

Contract 2 (Contract No. NE/2017/08)

2.2.3 The major construction activities of Contract 2 undertaken in this Reporting Period are:-

- UU Diversion
- Road Work along Wan Po Road
- Excavation and Demolition of existing wave wall at Portion I
- Monitoring and Instrumentation works
- RC construction for U-trough at Portion III, parapet at elevated deck
- RC construction for lift shaft and stair case
- TCSS Cross road ducts installation at Wan Po Road
- Modification of Type 1 Wave wall
- Drainage work at Portion I, III
- RC Construction of foundation at Wan O Road
- Deck construction at cycle track ramp
- Utilities installation along At Grade Road
- SENB installation at At-Grade Road, Portion III, U-trough

2.3 SUMMARY OF ENVIRONMENTAL SUBMISSIONS

2.3.1 All the documents required under Environmental Permit No. EP-459/2013 were submitted within the required timeframe. The details can be referred to the Monthly Report.

2.3.2 Upon completed baseline monitoring, a Baseline Monitoring Report was verified by IEC on 19 November 2018 and submitted to EPD on that day for endorsement.

2.3.3 The notification of Project dedicated web site to EPD was made on 9 January 2019 (http://www.envcbltko.hk/).

3. SUMMARY OF ENVIRONMENTAL MONITORING PROGRAMMES AND REQUIREMENTS

3.1 GENERAL

3.1.1 The Environmental Monitoring and Audit Programmes and 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. A summary of EM&A programmes and requirements are presented in the sub-sections below.

3.2 MONITORING PARAMETERS

3.2.1 Monitoring parameters of air quality, noise and water quality are summarized in ***Table 3-1***.

Table 3-1 Summary of EM&A Requirements

Environmental Issue	Parameters
Air Quality	• 1-hour TSP by Real-Time Portable Dust Meter; and • 24-hour TSP by High Volume Air Sampler
Noise	• Leq (30min) in six consecutive Leq(5 min) between 07:00-19:00 on normal weekdays • Supplementary information for data auditing, statistical results such as L_{10} and L_{90} shall also be obtained for reference.
Water Quality	• In-situ measurement – Dissolved Oxygen (DO) concentration (mg/L) & saturation (%), pH, Salinity (mg/L), Temperature (ºC) and Turbidity (NTU); and • Laboratory analysis – SS (mg/L)

3.3 MONITORING LOCATIONS

Air Quality and Construction Noise

3.3.1 According to the Approved EM&A Manual Section 5.4 and Section 6.3, three (3) representative air sensitive receivers (ASR) and four (4) representative noise sensitive receivers were designated as monitoring stations. The designated air quality and noise monitoring locations are listed in ***Table 3-2*** and ***Table 3-3,*** and illustrated in ***Appendix D***.

Table 3-2 Designated Air Quality Monitoring Location recommended in EM&A Manual

ID	Location in the EM&A Manual	Currently Situation
AM1	Tung Wah Group of Hospitals Aided Primary School & Secondary School	Not yet construct
AM2	Lohas Park Stage 2 (Planned Development in Area 86)	Available for resident occupation in February 2021
AM3	Lohas Park Stage 3 (Planned Development in Area 86)	Under Construction

Table 3-3 Designated Construction Noise Monitoring Location recommended by EM&A Manual

ID	Location	Currently Situation
CNMS-1	Lohas Park Stage 1(Planned Development in Area 86, Package 5) (Southeast facade)	Available for resident occupation in November 2019
CNMS-2	Lohas Park Stage 1 (Planned Development in Area 86, Package 6) (Southeast facade)	Available for resident occupation in February 2021
CNMS-3	Lohas Park Stage 3 (Planned Development in Area 86,Package 11) (West facade)	Under Construction
CNMS-4	Tung Wah Group of Hospitals Aided Primary School & Secondary School (Southwest facade)	Not yet construct

3.3.2 As observed and confirmed by ET and IEC during the joint site visit on 29th August 2018, the designated air quality and noise monitoring locations are under construction or yet to construct. It is considered that these designated locations are not appropriate to perform air quality and noise

monitoring. In this regard, alternative locations were proposed as interim arrangement to carry out air quality and noise monitoring before occupation of the designated monitoring location. A letter enclosed with the alternative location proposal and IEC verification (Our Ref: TCS00975/18/300/L0038) was sent to EPD on 19th October 2018 and the proposal was agreed by EPD. Therefore, air quality and construction noise impact monitoring would be performed at the agreed alternative locations until the designated sensitive receivers occupied and granted the premises.

3.3.3 The designated and interim alternative monitoring location for impact air quality and noise monitoring in the Reporting Period are summarized in Table 3-4 and illustrated in ***Appendix D***.

Table 3-4 Designated and interim alternative location for air quality and noise monitoring in the Reporting Period

Location ID	Monitoring Parameter	Location
AM2	1-Hour TSP Air Quality	Lohas Park Phase 6
AM4	1-Hour TSP Air Quality	Podium of Lohas Park Phase 2A (Le Prestige)
AM5	24-Hour TSP Air Quality	Boundary of Site Office near Junction of Wan Po Road and Wan O Road
CNMS-1	Noise (L_{eq}, L_{10} & L_{90})	Podium of Lohas Park Package 4
CNMS-2	Noise (L_{eq}, L_{10} & L_{90})	Lohas Park Package 6
CNMS-5	Noise (L_{eq}, L_{10} & L_{90})	Podium of Lohas Park Phase 2A (Le Prestige)

Remark:
1. Since 24-Hour TSP Air Quality monitoring is not granted at AM4 Lohas Park Phase 2A, the 24-Hour TSP monitoring was therefore proposed at AM5 which is located at the boundary of the project site office.
2. 24-Hour TSP Air Quality Monitoring at AM2 will be commenced once approval of High Volume Sampler installation was obtained from Lohas Park 6.

Water Quality

3.3.4 According to Table 7.1 of the approved EM&A Manual Section 7.4, two Control Stations (C3 & C4), six (6) sensitive receivers (CC1, CC2, CC3, CC4, CC13 & SWI1) and one (1) Gradient station (I1) are recommended to perform water quality monitoring. Details and coordinate of these water quality monitoring stations are described in ***Table 3-5*** and the locations is shown in ***Appendix D.***

Table 3-5 Location of Water Quality Monitoring Station

Station	Coordinates		Description
	Easting	Northing	
CC1	843201	816416	**Sensitive Receiver** – Coral Sites at Chiu Keng Wan
CC2	844076	817091	**Sensitive Receiver** – Coral Sites at Junk Bay
CC3	844606	817941	**Sensitive Receiver** – Coral Sites at Junk Island
CC4	845444	815595	**Sensitive Receiver** – Coral Sites at Fat Tong Chau West
CC13	844200	817495	**Sensitive Receiver** – Coral Sites at Junk Bay near Chiu Keng Wan
SWI1	845512	817442	**Sensitive Receiver** – Tseung Kwan O Salt Water Intake
C3	843821	816211	**Control Station** (Ebb Tide) – within Junk Bay
C4	844621	815770	**Control Station** (Flood Tide) – within Junk Bay
I1	844602	817675	**Gradient Station** – in between Lam Tin Tunnel (LTT) and CBL

3.4 MONITORING FREQUENCY AND PERIOD

3.4.1 To according with the approved *EM&A Manual*, impact monitoring requirements are presented as follows.

Air Quality Monitoring

3.4.2 Air quality impact monitoring frequency is as follows:

- Once every 6 days of 24-hour TSP and 3 times of 1-hour TSP monitoring; during course of works throughout the construction period.

Construction Noise Monitoring

3.4.3 Construction noise monitoring frequency is as follows:

- One set of $Leq_{(30min)}$ measurements in a weekly basis between 07:00 and 19:00 hours on normal weekdays during course of works as throughout the construction period.
- If construction works are extended to include works during the hours of 1900-0700, additional weekly impact monitoring shall be carried out during evening and night-time works. Applicable permits under the NCO shall be obtained by the Contractor.

Water Quality (Marine Water) Monitoring

3.4.4 Marine water impact monitoring frequency is as follows:

- Three days a week, at mid ebb and mid flood tides during course of pile excavation works for the bridge pier foundations underway. Moreover, the intervals between 2 consecutive sets of monitoring day shall not be less than 36 hours.

3.5 DETERMINATION OF ACTION/LIMIT (A/L) LEVELS

3.5.1 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. A summary of the Action/Limit (A/L) Levels for air quality, construction noise and water quality are shown in ***Tables 3-6, 3-7*** and ***3-8*** respectively.

Table 3-6 Action & Limit Levels of Air Quality (1-Hour & 24-Hr TSP)

Monitoring Station	Action Level (μg /m^3)		Limit Level (μg/m^3)	
	1-Hour TSP	24-Hr TSP	1-Hour TSP	24-Hr TSP
AM2	278	NA	500	NA
AM4	278	NA	500	NA
AM5	NA	190	NA	260
Note: 1-Hour & 24-Hr TSP of Action Level = (Average Baseline Results × 1.3 + Limit level)/2				

Table 3-7 Action and Limit Levels for Construction Noise, dB(A)

Monitoring Location	Action Level	Limit Level (Leq30min)
	Time Period: 0700-1900 hours on normal weekdays	
CNMS-1 CNMS-2 CNMS-5	When one or more documented complaints are received	***75*** dB(A)
	Time Period: 1900-2300 hours on all days (Leq15min)	
	When one or more documented complaints are received	***55*** dB(A)

Remarks:

1. *Construction noise monitoring will be resumed at the designated locations CNMS-3 and CNMS4 once they are available and permission are granted;*
2. *The designated locations CNMS-3 is located at residential building which is still under construction, Limit Level of 75dB(A) will be adopted until they are occupied;*
3. *The designated location CNMS-4 is located at planned school and still not yet to construction. When the school occupied and operated, Limit Level of 70dB(A) should be adopted and should be reduced to 65dB(A) during examination period; and*
4. *If construction works are required during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority shall be followed.*

Table 3-8 Action and Limit Levels for Water Quality

Monitoring Station	Depth Average of SS (mg/L)			
	Action Level		Limit Level	
CC1	7.8	**OR** 120% of upstream control station at the same tide of the same day (Control Station C3 at Ebb tide and Control Station C4 at Flood tide), whichever is higher	9.3	**OR** 130% of upstream control station at the same tide of the same day (Control Station C3 at Ebb tide and Control Station C4 at Flood tide) , whichever is higher
CC2	9.0		9.2	
CC3	8.2		9.0	
CC4	13.8		15.4	
CC13	8.9		10.3	
SWI1	8 mg/L		10 mg/L	

Monitoring Location	Dissolved Oxygen (mg/L)			
	Depth Average of Surface and Mid-depth		Bottom	
	Action Level	Limit Level	Action Level	Limit Level
CC1	5.8	5.7	5.3	5.2
CC2	5.8	5.7	5.3	5.1
CC3	5.5	5.4	4.9	4.7
CC4	5.7	5.7	5.5	5.4
CC13	5.6	5.5	5.3	5.2
SWI1	5.4	4.8	5.1	5.0

Monitoring Location	Depth Average of Turbidity (NTU)			
	Action Level		Limit Level	
CC1	5.8	**OR** 120% of upstream control station at the same tide of the same day (Control Station C3 at Ebb tide and Control Station C4 at Flood tide) , whichever is higher	6.0	**OR** 130% of upstream control station at the same tide of the same day (Control Station C3 at Ebb tide and Control Station C4 at Flood tide) , whichever is higher
CC2	4.6		5.5	
CC3	4.8		5.4	
CC4	6.1		7.1	
CC13	6.0		6.3	
SWI1	6.1		7.1	

3.5.2 Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan as stated EM&A Manual.

4. IMPACT MONITORING RESULT

4.1 RESULTS OF AIR QUALITY MONITORING IN THE REPORTING MONTH

4.1.1 As notified that Lohas Park Package 6 was available for resident occupation in late January 2021, air quality monitoring at designated monitoring location AM2 was therefore commenced in February 2021. Since the installation of High Volume Sampler for 24-Hour TSP monitoring is still under review by Property Management Team of Lohas Park Package 6, an interim alternative monitoring location AM2a was proposed for the 24-Hour TSP monitoring and was commenced on 13 July 2021 upon agreed by ER and IEC.

4.1.2 In the Reporting Period, 1-Hour TSP monitoring was performed at designated monitoring location AM2 and interim alternative monitoring locations AM4, and 24-Hr TSP of air quality monitoring was performed at interim alternative monitoring locations AM2a and AM5.

4.1.3 During the Reporting Period, ***90*** sessions of 1-hour TSP and ***32*** sessions of 24-hours TSP monitoring were carried out and the monitoring results are summarized in ***Table 4-1***. The relevant graphical plots are shown in ***Appendix E***.

Table 4-1 Summary of Air Quality Impact Monitoring Results

Monitoring Location	1-hour TSP (μg/m³)			24-hour TSP (μg/m³)		
	Min	Max	Average	Min	Max	Average
AM2	47	109	74			
Record Date	19-Feb-22	29-Jan-22	45 events			
AM2a				17	139	64
Record Date				17-Feb-22	15-Dec-21	16 events
AM4	42	110	73			
Record Date	19-Feb-22	29-Jan-22	45 events			
AM5				22	135	73
Record Date				31-Jan-22	17-Feb-22	16 events

4.1.4 As shown in ***Table 4-1***, all the 1-hour TSP and 24-hour TSP monitoring results were below the Action / Limit Levels. No Notification of Exceedance (NOE) was issued in this Reporting Period.

4.1.5 No adverse impact due to weather condition on the monitoring result was observed in reporting quarter. The summary of meteorological information for the Reporting Period is shown in ***Appendix F***.

4.2 RESULTS OF CONSTRUCTION NOISE MONITORING

4.2.1 ***12*** sessions of daytime construction noise monitoring were performed at the designated location CNMS-1, CNMS-2 and interim alternative monitoring location CNMS-5 in the reporting period. The daytime noise monitoring results at designated location CNMS-1 and CNMS-2, and interim alternative monitoring location CNMS-5 are summarized in ***Table 4-2.*** The relevant graphical plots are shown in ***Appendix E***.

Table 4-2 Summary of Daytime Construction Noise Impact Monitoring Results

Monitoring Location	Leq, 30min (dB((A))		
	Min	Max	Average
CNMS-1	55.7	69.8	62.7
Record Date	16-Dec-21	24-Jan-22	12 sessions
CNMS-2	57.3	74.6	63.3
Record Date	12-Jan-22	10-Dec-21	12 sessions
CNMS-5	59.0	66.6	62.7
Record Date	12-Jan-22	24-Feb-22	12 sessions

4.2.2 All the measured daytime construction noise results were below 75dB(A) of the limit level acceptance criteria.

4.2.3 ***6*** sessions of evening construction noise monitoring were performed at the designated location CNMS-1, CNMS-2 and interim alternative monitoring location CNMS-5 in the reporting period. The evening time noise monitoring results at designated location CNMS-1 and CNMS-2, and interim alternative monitoring location CNMS-5 are summarized in ***Table 4-3.***

Table 4-3 Summary of Evening time Construction Noise Impact Monitoring Results

Monitoring Location	Leq, 5min (dB((A))		
	Min	Max	Average
CNMS-1	48.9	51.3	49.9
Record Date	14-Dec-21	14-Dec-21	2 sessions
CNMS-2	44.0	52.4	46.2
Record Date	14-Dec-21	14-Dec-21	2 sessions
CNMS-5	58.0	60.0	58.9
Record Date	14-Dec-21	30-Dec-21	2 sessions

4.2.4 Two (2) sessions of evening noise monitoring results triggered the Limit Level (55 dB(A)) in the reporting period and investigations were undertaken by ET accordingly and indicated that the exceedance recorded were not Project related.

4.2.5 ***3*** sessions of nighttime construction noise monitoring were performed at the designated location CNMS-1, CNMS-2 and interim alternative monitoring location CNMS-5 in the reporting period. The night time noise monitoring results at designated location CNMS-1 and CNMS-2, and interim alternative monitoring location CNMS-5 are summarized in ***Table 4-4.***

Table 4-4 Summary of Nighttime Construction Noise Impact Monitoring Results

Monitoring Location	Leq, 5min (dB((A))		
	Min	Max	Average
CNMS-1	49.2	50.0	49.6
Record Date	14-Dec-21	14-Dec-21	1 sessions
CNMS-2	47.2	48.5	47.8
Record Date	14-Dec-21	14-Dec-21	1 sessions
CNMS-5	55.8	56.3	56.1
Record Date	14-Dec-21	14-Dec-21	1 sessions

4.2.6 Three (3) sessions of Nighttime noise monitoring results triggered the Limit Level (40 dB(A)) in the reporting period and investigations were undertaken by ET accordingly and indicated that the exceedance recorded were not Project related.

4.2.7 In the reporting period, special CNP GW-RE0132-22 was granted for the night work carried out on 15 February 2022 for Contract 1. Adhoc noise measurement at the nearby Noise Monitoring location CNMS-2 was conducted to evaluate noise impact to the nearby resident. since the monitoring result obtained were within the range of night noise obtained from baseline monitoring and external noise source such as traffic noise was noted during the course of monitoring, it was considered the higher noise level was unlikely due to the Project. The detail information of the adhoc noise measurement can be referred to the Monthly EM&A Report of February 2022.

4.3 RESULTS OF WATER QUALITY MONITORING

4.3.1 According to the approved EM&A Manual Section 7.6.1, the impact marine water quality monitoring work shall be carried out during the CBL piling and pile excavation works (marine construction activity) of the Project. Impact marine water quality monitoring was commenced in December 2018 when CBL piling and pile excavation works started.

4.3.2 As confirmed, all the marine piling and piling excavation work were completed in January 2020 and all pile cap installation work was completed in mid-March 2020. Due to the marine construction works that requires marine water quality monitoring as stated in the EM&A Manual were completed, the impact water quality monitoring was ceased with effect from 1 May 2020 and IEC has no particular comment on this arrangement.

4.3.3 No impact water quality monitoring was therefore carried out in the reporting period.

5. WASTE MANAGEMENT

5.1 GENERAL WASTE MANAGEMENT

5.1.1 Waste management would be carried out by an on-site Environmental Officer or an Environmental Consultant from time to time.

5.2 RECORDS OF WASTE QUANTITIES

5.2.1 All types of waste arising from the construction work are classified into the following:

- Construction & Demolition (C&D) Material;
- Chemical Waste; and
- General Refuse

5.2.2 According to the information provided by Contractor of Contract 1 and Contract 2, waste disposal was made in the Reporting period are summarized in ***Tables 5-1*** and ***5-2***.

Table 5-1 Summary of Quantities of Inert C&D Materials

Type of Waste	Contract No	Quantity			Disposal Location
		Dec 2021	Jan 2022	Feb 2022	
Total Generated C&D Materials (Inert) (in '000m^3)	1	0.006	0.162	0.066	TKO 137
	2	1.837	2.835	0.132	
Reused in this Project (Inert) (in '000m^3)	1	0	0	0	-
	2	0	0	0	-
Reused in other Projects (Inert) (in '000m^3)	1	0	0	0	-
	2	0	0	0	-
Disposal as Public Fill (Inert) (in '000m^3)	1	0.006	0.162	0.066	TKO 137
	2	1.712	2.835	0.132	
Imported Fill ('000m^3)	1	0	0	0	-
	2	0.125	0.530	1.049	-

Table 5-2 Summary of Quantities of C&D Wastes

Type of Waste	Contract No	Quantity			Disposal Location
		Dec 2021	Jan 2022	Feb 2022	
Recycled Metal ('000kg)	1	0	0	0	Licensed collector
	2	0	0	0	
Recycled Paper / Cardboard Packing ('000kg)	1	0.154	0.171	0.210	Licensed collector
	2	0	0	0	
Recycled Plastic ('000kg)	1	0	0	0	Licensed collector
	2	0	0	0	
Chemical Wastes ('000kg)	1	0	0	0	Licensed collector
	2	0	0	0	
General Refuses ('000m^3)	1	0.181	0.768	0.513	NENT
	2	0.056	0.154	0.048	

5.2.3 The Monthly Summary Waste Flow Table of the Contracts 1 and Contract 2 are shown in ***Appendix G***.

6. SITE INSPECTION

6.1 REQUIREMENTS

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

6.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

Contract 1

6.2.1 In this Reporting Period, ***12*** events of weekly joint site inspection was carried out for Contract 1 to evaluate site environmental performance. The summaries of the findings during site inspection are presented in ***Table 6-1*** and the details of site inspection can be found in relevant EM&A monthly report.

Table 6-1 Summary of Site Observations of the Contract 1

Reporting Period	Date of site inspection	Nos. of Findings/ Deficiencies	Follow-Up Status
December 2021	3, 10, 16, 22 & 29 December 2021	1	Completed
January 2022	5, 20 & 28 January 2022	1	Completed
February 2022	4, 9, 16 & 23 February 2022	4	Completed

6.2.2 In the Reporting Period, no non-compliance was recorded for Contract 1; however, ***6*** observations were recorded during the site inspections and the major findings were related to water quality and chemical management mitigation measures. Details of the findings of the inspection in the reporting period can be referred to the Monthly EM&A Report. The findings found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

Contract 2

6.2.3 In this Reporting Period, ***12*** events of weekly joint site inspection was carried out for Contract 2 to evaluate site environmental performance. The summaries of the findings during site inspection are presented in ***Table 6-2*** and the details of site inspection can be found in relevant EM&A monthly report.

Table 6-2 Summary of Site Observations of the Contract 2

Reporting Period	Date of site inspection	Nos. of Findings/ Deficiencies	Follow-Up Status
December 2021	3, 10, 16, 22 & 29 December 2021	3	Completed
January 2022	5, 20 & 28 January 2022	2	Completed
February 2022	4, 9, 16 & 23 February 2022	3	Completed

6.2.4 In the Reporting Period, no non-compliance was recorded for Contract 2; however, ***8*** observations were recorded during the site inspections and the major findings were related to general housekeeping and chemical management mitigation measures. Details of the findings of the inspection in the reporting period can be referred to the Monthly EM&A Report. The findings found in the weekly site inspection were in general rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

7. LANDFILL GAS MONITORING

7.1 GENERAL REQUIREMENT

7.1.1 Pursuant to Section 13 of the Project's EM&A Manual, Landfill gas monitoring shall perform during construction activities within the 250m Consultation Zone of Tseung Kwan O Stage II & III Landfill. For landfill gas monitoring requirements, pre entry and routine measurement shall be undertaken in accordance with the *Factories and Industrial Undertaking (Confined Spaces) Regulation*.

7.1.2 According to Environmental Mitigation Implementation Schedule (EMIS) S14.7.6, portable monitoring equipment can be used to conduct landfill gas monitoring. Moreover, the frequency and areas to be monitored should be set down prior to commencement of the works either by the Safety Officer or by an appropriately qualified person.

7.2 LIMIT LEVELS AND EVENT AND ACTION PLAN

7.2.1 In event of the trigger levels specified in Table 14.6 of the EIA report being exceeded, a person, such as the Safety Officer, shall be nominated, with deputies, to be responsible for dealing with any emergency which may occur due to LFG. In an emergency situation the nominated person, or his deputies, shall have the necessary authority and shall ensure that the confined space is evacuated and the necessary works implemented for reducing the concentrations of gas. The Limit levels and relevant Action Plans for landfill gas detected in utilities and any on-site areas following construction is listed in ***Table 7-1***.

Table 7-1 Actions in the Event of Landfill Gas Being Detected in Excavations

Parameter	Limit Level	Actions
Methane	>10% LEL (i.e. >0.5% by volume)	• Post "No Smoking" signs • Prohibit hot works • Ventilate to restore methane to <10% LEL
	>20% LEL (i.e. >1% by volume)	• Stop excavation works • Evacuate personnel/prohibit entry • Increase ventilation to restore methane to <10% LEL
Carbon dioxide	>0.5%	• Ventilate to restore carbon dioxide to <0.5%
	>1.5%	• Stop excavation works • Evacuate personnel/prohibit entry • Increase ventilation to restore carbon dioxide to <0.5%
Oxygen	<19%	Ventilation to restore oxygen >19%
	<18%	• Stop excavation works • Evacuate personnel/prohibit entry • Increase ventilation to restore oxygen to >19%

7.2.2 In the event of the trigger levels specified in Table 9-1 being exceeded, the Safety Officer shall be responsible for dealing with any emergency which may occur due to landfill gas.

7.3 LANDFILL GAS MONITORING

7.3.1 In the Reporting Period, landfill gas monitoring was conducted at the zone Wan O Road which excavation work of Contract 2 was carried out.

7.3.2 There were a total of ***70*** days monitoring were carried by the Safety Officer or an approved and qualified persons. The results of landfill gas measurement are summarized in ***Table 7-2***.

TABLE 7-2 SUMMARY OF LANDFILL GAS MEASUREMENT RESULTS

Landfill Gas Parameter	Action Level	Limit Level	Detectable at LMR	
			Min	Max
Methane	>10% LEL (>0.5% v/v)	>20% LEL (>1% v/v)	0.0%	0.0%
Oxygen	<19%	<18%	20.3%	21.0%
Carbon Dioxide	>0.5%	>1.5%	0.0%	0.0%

7.3.3 The measurement results shown that slightly methane concentration was detected, oxygen concentration measured was over 19.0 %. No exceedance was triggered and therefore no corrective action was required accordingly.

8. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

8.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

8.1.1 In the Reporting Period, two (2) environmental complaints were received with respect to the noise nuisance and water quality arising from the Project. Besides, no summons and prosecution under the EM&A Programme was lodged for the project. The statistical summary table of environmental complaint is presented in ***Tables 8-1, 8-2*** and ***8-3***. A summarized record of all complaints received was provided in ***Appendix H***.

Table 8-1 Statistical Summary of Environmental Complaints

Reporting Period	Contract	Environmental Complaint Statistics		
		Frequency	Cumulative	Complaint Nature
1 – 31 December 2021	1	1	25	Noise
1 – 31 January 2022		0	25	NA
1 – 28 February 2022		0	25	NA
1 – 31 December 2021	2	0	15	NA
1 – 31 January 2022		0	15	NA
1 – 28 February 2022		1	16	Water

Table 8-2 Statistical Summary of Environmental Summons

Reporting Period	Contract	Environmental Complaint Statistics		
		Frequency	Cumulative	Complaint Nature
1 – 31 December 2021	1	0	0	NA
1 – 31 January 2022		0	0	NA
1 – 28 February 2022		0	0	NA
1 – 31 December 2021	2	0	0	NA
1 – 31 January 2022		0	0	NA
1 – 28 February 2022		0	0	NA

Table 8-3 Statistical Summary of Environmental Prosecution

Reporting Period	Contract	Environmental Complaint Statistics		
		Frequency	Cumulative	Complaint Nature
1 – 31 December 2021	1	0	0	NA
1 – 31 January 2022		0	0	NA
1 – 28 February 2022		0	0	NA
1 – 31 December 2021	2	0	0	NA
1 – 31 January 2022		0	0	NA
1 – 28 February 2022		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 I.***

9.1.2 The Contractors had been implementing the required environmental mitigation measures according to the Environmental Monitoring and Audit Manual subject to the site condition. Environmental mitigation measures generally implemented by the Contractors in this Reporting Month are summarized in ***Table 9-1***.

Table 9-1 Environmental Mitigation Measures in the Reporting Period

Issues	Environmental Mitigation Measures
Construction Noise	• Regularly to maintain all plants, so only the good condition plants were used on-site ; • If possible, all mobile plants onsite operation has located far from NSRs; • When machines and plants (such as trucks) were not in using, it was switched off; • Wherever possible, plant was prevented oriented directly the nearby NSRs; • Provided quiet powered mechanical equipment to use onsite; • Weekly noise monitoring was conducted to ensure construction noise meet the criteria.
Air Quality	• Stockpile of dusty material was covered entirely with impervious sheeting or sprayed with water so as to maintain the entire surface wet; • The construction plants regularly maintained to avoid the emissions of black smoke; • The construction plants switched off when it not in use; • Water spraying on haul road and dry site area was provided regularly; • Where a vehicle leaving the works site is carrying a load of dusty materials, the load has covered entirely with clean impervious sheeting; and • Before any vehicle leaving the works site, wheel watering has been performed.
Water Quality	• Debris and refuse generated on-site collected daily; • Oils and fuels were stored in designated areas; • The chemical waste storage as sealed area provided; • Site hoarding with sealed foot were provided surrounding the boundary of working site to prevent wastewater or site surface water runoff get into public areas; and • Portable chemical toilets were provided on-site. A licensed contractor was regularly disposal and maintenance of these facilities. • Silt curtain was installed and maintained in accordance with EP condition
Waste and Chemical Management	• Excavated material reused on site as far as possible to minimize off-site disposal. • Scrap metals or abandoned equipment should be recycled if possible; • Waste arising kept to a minimum and be handled, transported and disposed of in a suitable manner; • Disposal of C&D wastes to any designated public filling facility and/or landfill followed a trip ticket system; and • Chemical waste handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.
General	• The site is generally kept tidy and clean. • Mosquito control is performed to prevent mosquito breeding on site.

10. CONCLUSIONS AND RECOMMENDATIONS

10.1 CONCLUSIONS

10.1.1 This is the **13th** Quarterly EM&A report as presented the monitoring results and inspection findings for the reporting period from ***1 December 2021*** to ***28 February 2022.***

10.1.2 In the Reporting Period, one (1) action level exceedance for construction noise was recorded due to one (1) noise complaint was recorded. Two (2) session of evening construction noise and three (3) session of night time monitoring results triggered the Limit Level. Investigations were undertaken by ET. The daytime construction noise action level exceedances, and the evening and night time construction noise limit level exceedances triggered are unlikely due to the Project.

10.1.3 In this Reporting Period, no 1-Hour TSP or 24-Hr TSP air quality monitoring exceedance was recorded. No NOE or the associated corrective actions were therefore issued.

10.1.4 No water quality monitoring was carried out in the reporting period.

10.1.5 In the Reporting Period, two (2) environmental complaints were received with respect to the noise nuisance arising and water quality from the Project. Investigation for the complaints were undertaken by ET and it is considered that two complaints were not Project related.

10.1.6 No notification of summons or prosecution was received and recorded for the Project.

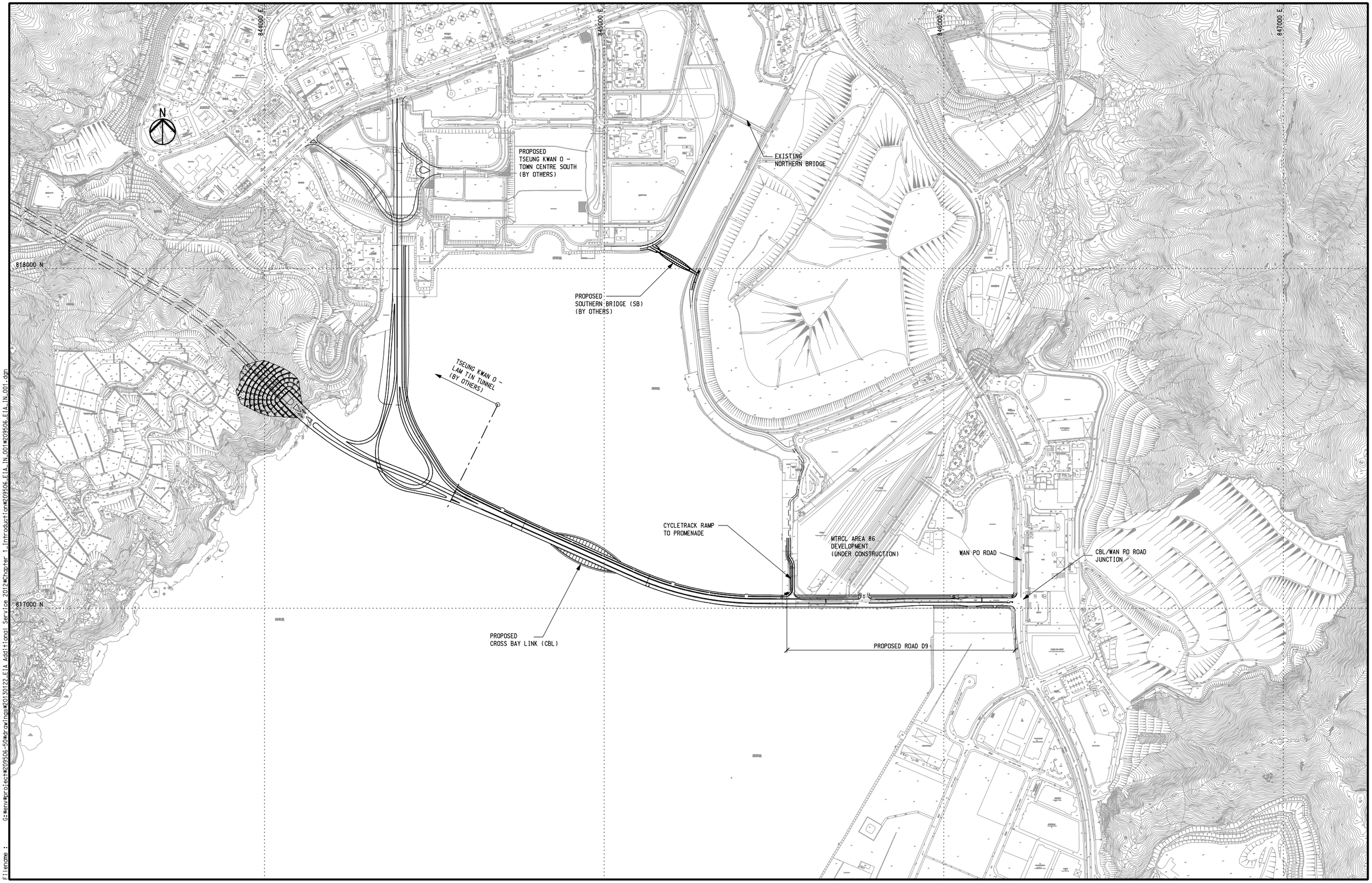
10.2 RECOMMENDATIONS

10.2.1 Due to the dry and windy season has begun in Hong Kong, the Contractor was reminded that all the works to undertaking must be fulfill environmental statutory requirement, especially construction dust come from working sites of the Project.

10.2.2 Construction noise would be the key environmental issue as Lohas Park Phase 4 & 6 were already available for resident occupation. The noise mitigation measures such as use of quiet plants and installation of temporary noise barrier at the construction noise predominate area should be fully implemented in accordance with the EM&A requirement.

Appendix A

Project Layout Plan



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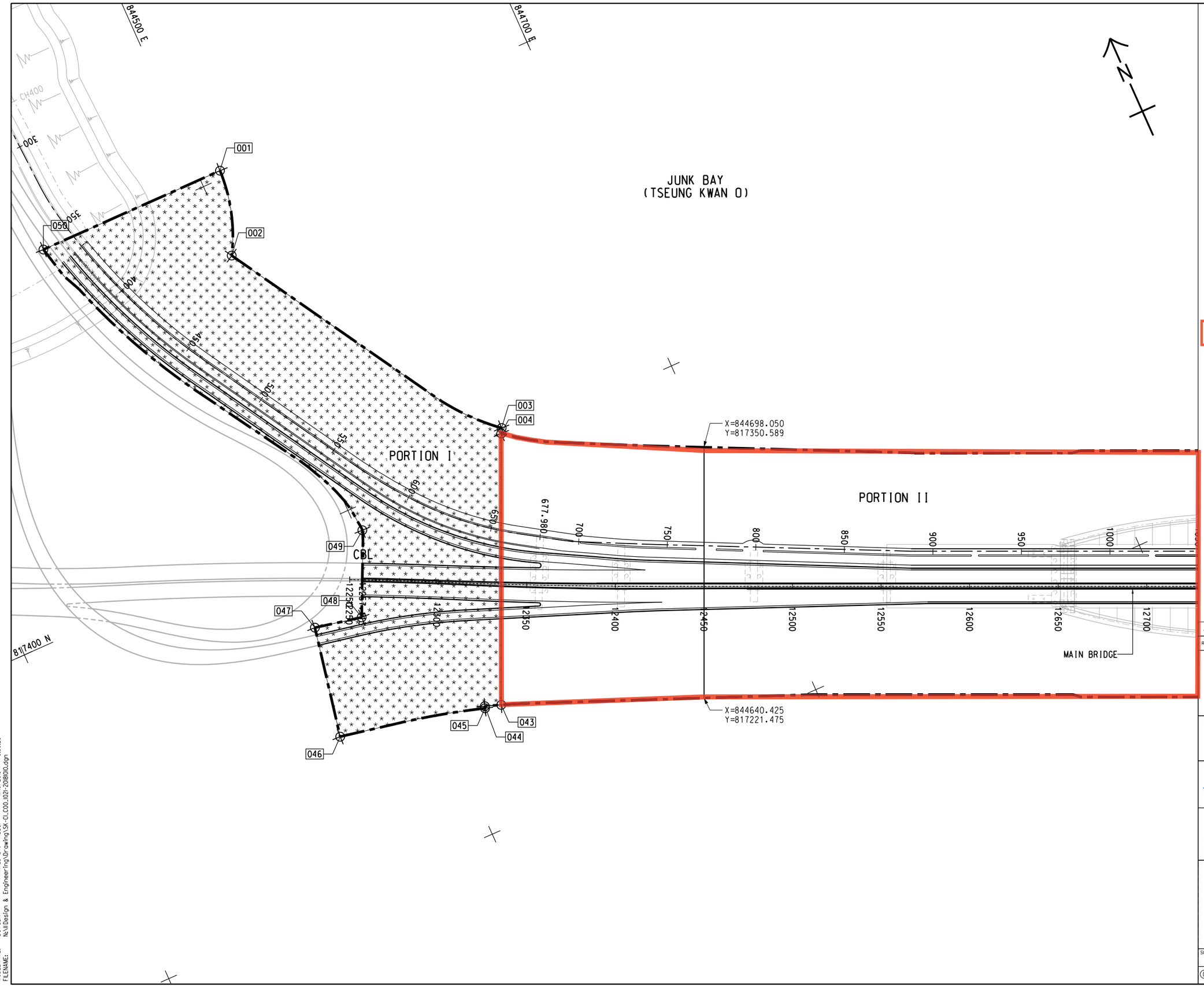
土木工程拓展署 Civil Engineering and Development Department	ARUP Ove Arup & Partners Hong Kong Limited	Job Title: **Agreement No. CE 43/2008(HY) Cross Bay Link, Tseung Kwan O – Investigation**
Drawing Title: GENERAL LAYOUT PLAN		

Rev.	Description	Date
B	SECOND ISSUE	01/13
A	FIRST ISSUE	07/11

Drawn: GL	Date: 01/13
Checked: JP	Approved: ST
Scale: 1:5000 on A1 & 1:10000 on A3	
Drawing No.: 209506/EIA/IN/001	
Status: FINAL	Rev.: B



NOTES:

1. ALL SETTING OUT POINTS SHOWN ON THIS SET OF DRAWINGS ARE FOR REFERENCE ONLY. THE EXACT LIMIT OF SITE BOUNDARY SHALL BE VERIFIED AND DETERMINED BY THE CONTRACTOR ON SITE.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60329339/C1/COO/1022 AND 1023.

LEGEND:

- SITE BOUNDARY
- PORTION I
- PORTION II
- PORTION III
- PORTION IV
- PORTION V
- PORTION VI
- PORTION VII
- WORKS AREA A
- WORKS AREA B
- Works area under Contract 1

Rev	Amendment	By	Chk.	App.	Date
A	FIRST ISSUE	HK	KN	AC	19/09/18

PROJECT MANAGER:

PROJECT MANAGER:

土木工程拓展署
Civil Engineering and Development Department

SUPERVISOR:

AECOM

CONTRACTOR:

中國路橋工程有限責任公司
China Road and Bridge Corp.

CONTRACT NO. AND TITLE:

Contract No. NE/2017/07

CROSS BAY LINK, TSEUNG KWAN O - MAIN BRIDGE AND ASSOCIATED WORKS

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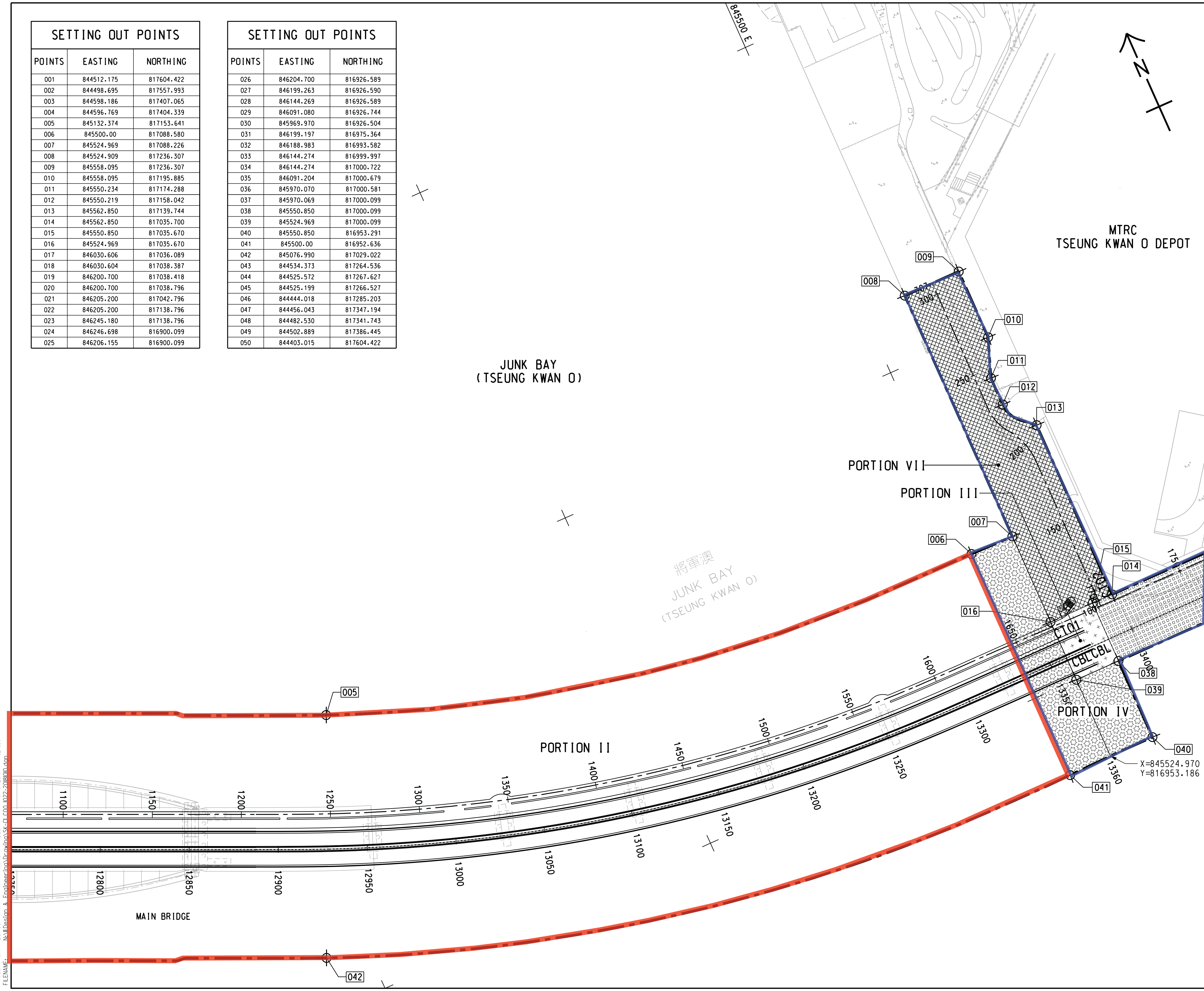
SETTING OUT POINTS

POINTS	EASTING	NORTHING
001	844512.175	817604.422
002	844498.695	817557.993
003	844598.186	817407.065
004	844596.769	817404.339
005	845132.374	817153.641
006	845500.00	817088.580
007	845524.969	817088.226
008	845524.909	817236.307
009	845558.095	817236.307
010	845558.095	817195.885
011	845550.234	817174.288
012	845550.219	817158.042
013	845562.850	817139.744
014	845562.850	817035.700
015	845550.850	817035.670
016	845524.969	817035.670
017	846030.606	817036.089
018	846030.604	817038.387
019	846200.700	817038.418
020	846200.700	817038.796
021	846205.200	817042.796
022	846205.200	817138.796
023	846245.180	817138.796
024	846246.698	816900.099
025	846206.155	816900.099

SETTING OUT POINTS

POINTS	EASTING	NORTHING
026	846204.700	816926.589
027	846199.263	816926.590
028	846144.269	816926.589
029	846091.080	816926.744
030	845969.970	816926.504
031	846199.197	816975.364
032	846188.983	816993.582
033	846144.274	816999.997
034	846144.274	817000.722
035	846091.204	817000.679
036	845970.070	817000.581
037	845970.069	817000.099
038	845550.850	817000.099
039	845524.969	817000.099
040	845550.850	816953.291
041	845500.00	816952.636
042	845076.990	817029.022
043	844534.373	817264.536
044	844525.572	817267.627
045	844525.199	817266.527
046	844444.018	817285.203
047	844456.043	817347.194
048	844482.530	817341.743
049	844502.889	817386.445
050	844403.015	817604.422



NOTE:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60329339/C1/C00/1021 AND 1023.

LEGEND:

Works area under Contract 1

Works area under Contract 2

Rev	Amendment	By	Chk.	App.	Date

PROJECT MANAGER:

土木工程拓展署
Civil Engineering and Development Department

SUPERVISOR:

AECOM

CONTRACTOR:

中國路橋工程有限責任公司
China Road and Bridge Corp.

CONTRACT NO. AND TITLE:

Contract No. NE/2017/07

CROSS BAY LINK, TSEUNG KWAN O - MAIN BRIDGE AND ASSOCIATED WORKS

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NOTE:

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60329339/C1/C00/1021 AND 1022.

LEGEND:

Works area under Contract 1

Works area under Contract 2

845700 E

845900 E

846100 E

N

MTRC
TSEUNG KWAN O DEPOT

817200 N

LOHAS PARK

CUT LINE B-B
SEE DRAWING NO. 60329339/C1/C00/1022

PORTION VI

817000 N

E=845869.991
N=817000.014

E=845869.970
N=816926.504

Loading & Unloading Marine Area

100m

WORKS AREA A

WORKS AREA B

PORTION V

JUNK BAY
(TSEUNG KWAN O)

816800 N

017 018 019 020 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037

Rev	Amendment	By	Chk.	App.	Date

PROJECT MANAGER:

PROJECT MANAGER:

土木工程拓展署
Civil Engineering and Development Department

SUPERVISOR:

AECOM

CONTRACTOR:

中國路橋工程有限責任公司
China Road and Bridge Corp.

CONTRACT NO. AND TITLE:

Contract No. NE/2017/07

CROSS BAY LINK, TSEUNG KWAN O - MAIN BRIDGE AND ASSOCIATED WORKS

DRAWING TITLE:

SCALE @ A1

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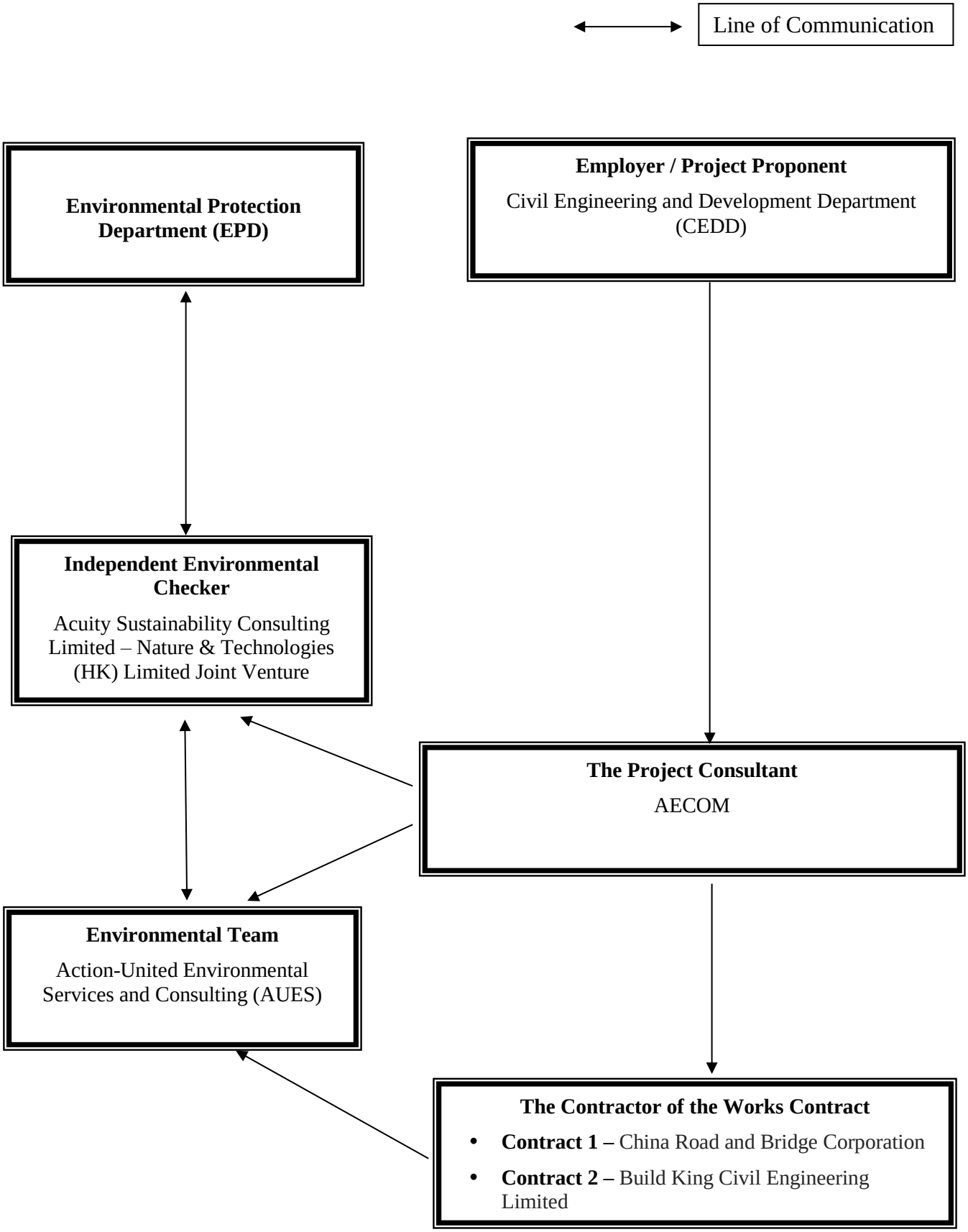
Appendix B

Project Organization Chart & Contact Details of Key Personnel for the Project

Project Organization Structure



Contact Details of Key Personnel for the Project

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Project Proponent	CK Lam	2301 1398	2714 5174
CEDD	Project Proponent	Sheri Leung	2301 1398	2714 5174
AECOM	Senior Resident Engineer	Jackie Chan	3595 8045	3596 6118
AECOM	Resident Engineer	Kingman Chan	3595 8045	3596 6118
ASC – N&T JV	Independent Environmental Checker	Kevin Li	2698 6833	2698 9383
ASC – N&T JV	Senior Environmental Consultant	Tandy Tse	2698 6833	2698 9383
AUES	Environmental Team Leader	T. W. Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Ben Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Martin Li	2959 6059	2959 6079
CRBC	Site Agent	Raymond Suen	9779 8871	2283 1689
CRBC	Environmental Officer	Calvin So	9724 6254	2283 1689
CRBC	Environmental Supervisor	Lila Lui	9790 5433	2283 1689
Build King	Site Agent	Stephen Leung	9071 7657	TBA
Build King	Environmental Officer	Michael Lam	6476 4299	TBA
Build King	Environmental Supervisor	Kenneth Hung	6170 9304	TBA

Legend:

CEDD (Employer) – Civil Engineering and Development Department

AECOM (Project Consultant) – AECOM Asia Co. Ltd.

ASC – N&T JV (IEC) – Acuity Sustainability Consulting Limited – Nature & Technologies (HK) Limited Joint Venture

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

CRBC (the Main Contractor of the Works Contract 1) – China Road and Bridge Corporation

Build King (the Main Contractor of the Works Contract 2) - Build King Civil Engineering Limited

Appendix C

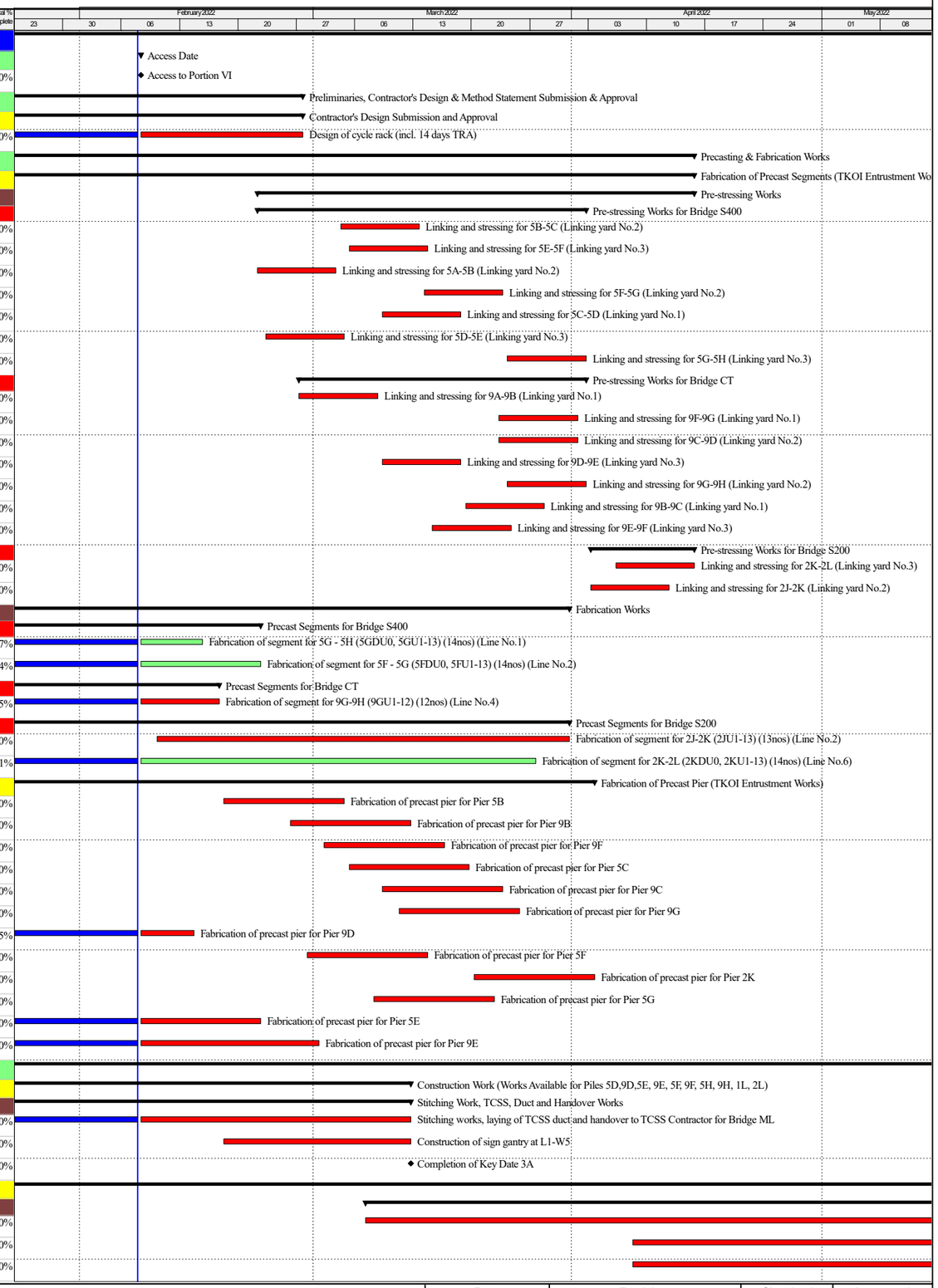
3-Month Rolling Construction Programme

Contract 1

Data Date :08-Feb-22
Sheet 1of 7

Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Physical % Complete
Cross Bay Link,Tseung Kwan O Main Bridge and Associated Works		670.0	183.0	30-Jul-20 A	09-Aug-22	
Access Date		0.0	0.0	08-Feb-22	08-Feb-22	
PAD1110	Access to Portion VI	0.0	0.0	08-Feb-22*		0%
Preliminaries, Contractor's Design & Method Statement Submission & Approval		111.0	20.0	12-Jun-21 A	27-Feb-22	
Contractor's Design Submission and Approval		111.0	20.0	12-Jun-21 A	27-Feb-22	
CDS1230	Design of cycle rack (incl. 14 days TRA)	111.0	20.0	12-Jun-21 A	27-Feb-22	70%
Precasting & Fabrication Works		145.0	67.0	04-Dec-21 A	15-Apr-22	
Fabrication of Precast Segments (TKOI Entrustment Works)		119.0	67.0	19-Dec-21 A	15-Apr-22	
Pre-stressing Works		53.0	53.0	22-Feb-22	15-Apr-22	
Pre-stressing Works for Bridge S400		40.0	40.0	22-Feb-22	02-Apr-22	
P-PF6000	Linking and stressing for 5B-5C (Linking yard No.2)	10.0	10.0	04-Mar-22	13-Mar-22	0%
P-PF6020	Linking and stressing for 5E-5F (Linking yard No.3)	10.0	10.0	05-Mar-22	14-Mar-22	0%
P-PF6060	Linking and stressing for 5A-5B (Linking yard No.2)	10.0	10.0	22-Feb-22	03-Mar-22	0%
P-PF6080	Linking and stressing for 5F-5G (Linking yard No.2)	10.0	10.0	14-Mar-22	23-Mar-22	0%
P-PF6100	Linking and stressing for 5C-5D (Linking yard No.1)	10.0	10.0	09-Mar-22	18-Mar-22	0%
P-PF6120	Linking and stressing for 5D-5E (Linking yard No.3)	10.0	10.0	23-Feb-22	04-Mar-22	0%
P-PF6140	Linking and stressing for 5G-5H (Linking yard No.3)	10.0	10.0	24-Mar-22	02-Apr-22	0%
Pre-stressing Works for Bridge CT		35.0	35.0	27-Feb-22	02-Apr-22	
P-PF7000	Linking and stressing for 9A-9B (Linking yard No.1)	10.0	10.0	27-Feb-22	08-Mar-22	0%
P-PF7020	Linking and stressing for 9F-9G (Linking yard No.1)	10.0	10.0	23-Mar-22	01-Apr-22	0%
P-PF7040	Linking and stressing for 9C-9D (Linking yard No.2)	10.0	10.0	23-Mar-22	01-Apr-22	0%
P-PF7060	Linking and stressing for 9D-9E (Linking yard No.3)	10.0	10.0	09-Mar-22	18-Mar-22	0%
P-PF7080	Linking and stressing for 9G-9H (Linking yard No.2)	10.0	10.0	24-Mar-22	02-Apr-22	0%
P-PF7120	Linking and stressing for 9B-9C (Linking yard No.1)	10.0	10.0	19-Mar-22	28-Mar-22	0%
P-PF7140	Linking and stressing for 9E-9F (Linking yard No.3)	10.0	10.0	15-Mar-22	24-Mar-22	0%
Pre-stressing Works for Bridge S200		13.0	13.0	03-Apr-22	15-Apr-22	
P-PF8020	Linking and stressing for 2K-2L (Linking yard No.3)	10.0	10.0	06-Apr-22	15-Apr-22	0%
P-PF8040	Linking and stressing for 2J-2K (Linking yard No.2)	10.0	10.0	03-Apr-22	12-Apr-22	0%
Fabrication Works		104.0	52.0	19-Dec-21 A	31-Mar-22	
Precast Segments for Bridge S400		48.0	15.0	19-Dec-21 A	22-Feb-22	
P-PF2100	Fabrication of segment for 5G - 5H (5GDU0, 5GU1-13) (14nos) (Line No.1)	48.0	8.0	19-Dec-21 A	15-Feb-22	85.7%
P-PF2120	Fabrication of segment for 5F - 5G (5FDU0, 5FU1-13) (14nos) (Line No.2)	38.0	15.0	22-Dec-21 A	22-Feb-22	71.4%
Precast Segments for Bridge CT		36.0	10.0	26-Dec-21 A	17-Feb-22	
P-PF3180	Fabrication of segment for 9G-9H (9GU1-12) (12nos) (Line No.4)	36.0	10.0	26-Dec-21 A	17-Feb-22	75%
Precast Segments for Bridge S200		83.0	52.0	13-Jan-22 A	31-Mar-22	
P-PF4000	Fabrication of segment for 2J-2K (2JU1-13) (13nos) (Line No.2)	50.0	50.0	10-Feb-22	31-Mar-22	0%
P-PF4080	Fabrication of segment for 2K-2L (2KDU0, 2KU1-13) (14nos) (Line No.6)	52.0	48.0	13-Jan-22 A	27-Mar-22	7.1%
Fabrication of Precast Pier (TKOI Entrustment Works)		133.0	55.0	04-Dec-21 A	03-Apr-22	
S1-PP1003	Fabrication of precast pier for Pier 5B	15.0	15.0	18-Feb-22	04-Mar-22	0%
S1-PP1004	Fabrication of precast pier for Pier 9B	15.0	15.0	26-Feb-22	12-Mar-22	0%
S1-PP1005	Fabrication of precast pier for Pier 9F	15.0	15.0	02-Mar-22	16-Mar-22	0%
S1-PP1007	Fabrication of precast pier for Pier 5C	15.0	15.0	05-Mar-22	19-Mar-22	0%
S1-PP1008	Fabrication of precast pier for Pier 9C	15.0	15.0	09-Mar-22	23-Mar-22	0%
S1-PP1009	Fabrication of precast pier for Pier 9G	15.0	15.0	11-Mar-22	25-Mar-22	0%
S1-PP1011	Fabrication of precast pier for Pier 9D	24.0	7.0	08-Jan-22 A	14-Feb-22	85%
S1-PP1012	Fabrication of precast pier for Pier 5F	15.0	15.0	28-Feb-22	14-Mar-22	0%
S1-PP1013	Fabrication of precast pier for Pier 2K	15.0	15.0	20-Mar-22	03-Apr-22	0%
S1-PP1014	Fabrication of precast pier for Pier 5G	15.0	15.0	08-Mar-22	22-Mar-22	0%
S1-PP1015	Fabrication of precast pier for Pier 5E	48.0	15.0	04-Dec-21 A	22-Feb-22	80%
S1-PP1016	Fabrication of precast pier for Pier 9E	48.0	22.0	10-Dec-21 A	01-Mar-22	80%
Section 1 of the Works- All Works within Portion I of the Site (Entrusted Works of TKOI Viaduct)		324.0	149.0	24-Aug-21 A	06-Jul-22	
Construction Work (Works Available for Piles 5D,9D,5E, 9E, 5F, 9F, 5H, 9H, 1L, 2L)		77.0	33.0	31-Dec-21 A	12-Mar-22	
Stitching Work, TCSS, Duct and Handover Works		77.0	33.0	31-Dec-21 A	12-Mar-22	
S1-SW1000	Stitching works, laying of TCSS duct and handover to TCSS Contractor for Bridge ML	63.0	29.0	31-Dec-21 A	12-Mar-22	30%
S1-SW1020	Construction of sign gantry at L1-W5	20.0	20.0	18-Feb-22	12-Mar-22	0%
S1-SW1040	Completion of Key Date 3A	0.0	0.0		12-Mar-22	0%
Construction Work (Works Available for Piles 5B,9B,5C,9C,5G,9G,2K)		324.0	149.0	24-Aug-21 A	06-Jul-22	
Footway and cycle track, Road Surfacing, Street Furniture Installation and Remaining Works		97.0	97.0	07-Mar-22	06-Jul-22	
S1-RW3000	Footway and cycle track, Road Surfacing, Street Furniture Installation and Remaining Works for Bridge ML	60.0	60.0	07-Mar-22	21-May-22	0%
S1-RW3020	Footway and cycle track, Road Surfacing, Street Furniture Installation and Remaining Works for Bridge S400	70.0	70.0	08-Apr-22	06-Jul-22	0%
S1-RW3040	Footway and cycle track, Road Surfacing, Street Furniture Installation and Remaining Works for Bridge CT	70.0	70.0	08-Apr-22	06-Jul-22	0%



Remaining Level of Effort
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Three Month Rolling Programme (February 2022 - May 2022)

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Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Physical % Complete
S1-RW3060	Footway and cycle track, Road Surfacing, Street Furniture Installation and Remaining Works for Bridge S200	49.0	49.0	07-May-22	06-Jul-22	0%
Construction Work for Piers 5B, 9B, 5C,9C, 5G,9G		263.0	88.0	24-Aug-21 A	06-May-22	
Installation of Precast Pier & 2nd Pour for Pile Cap		48.0	48.0	20-Feb-22	08-Apr-22	
Installation of Precast Pier & 2nd Pour for Pile Cap - 5B		16.0	16.0	16-Mar-22	31-Mar-22	
S1-PP2060	Preparation work and delivery works for Pier 5B	5.0	5.0	16-Mar-22	20-Mar-22	0%
S1-PP3040	Installation of precast pier and 2st pour for pile cap 5B	10.0	10.0	21-Mar-22	31-Mar-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 9B		18.0	18.0	11-Mar-22	28-Mar-22	
S1-PP2080	Preparation work and delivery works for Pier 9B	5.0	5.0	11-Mar-22	15-Mar-22	0%
S1-PP3060	Installation of precast pier and 2st pour for pile cap 9B	10.0	10.0	17-Mar-22	28-Mar-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 5C		16.0	16.0	20-Mar-22	04-Apr-22	
S1-PP2140	Preparation work and delivery works for Pier 5C	3.0	3.0	20-Mar-22	22-Mar-22	0%
S1-PP3120	Installation of precast pier and 2st pour for pile cap 5C	10.0	10.0	24-Mar-22	04-Apr-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 9C		12.0	12.0	24-Mar-22	04-Apr-22	
S1-PP2160	Preparation work and delivery works for Pier 9C	3.0	3.0	24-Mar-22	26-Mar-22	0%
S1-PP3140	Installation of precast pier and 2st pour for pile cap 9C	7.0	7.0	28-Mar-22	04-Apr-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 9G		12.0	12.0	26-Mar-22	06-Apr-22	
S1-PP2180	Preparation work and delivery works for Pier 9G	3.0	3.0	26-Mar-22	28-Mar-22	0%
S1-PP3160	Installation of precast pier and 2st pour for pile cap 9G	7.0	7.0	29-Mar-22	06-Apr-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 5G		17.0	17.0	23-Mar-22	08-Apr-22	
S1-PP2260	Preparation work and delivery works for Pier 5G	5.0	5.0	23-Mar-22	27-Mar-22	0%
S1-PP3240	Installation of precast pier and 2st pour for pile cap 5G	10.0	10.0	28-Mar-22	08-Apr-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 5H		17.0	17.0	20-Feb-22	08-Mar-22	
S1-PP2020	Preparation work and delivery works for Pier 5H	5.0	5.0	20-Feb-22	24-Feb-22	0%
S1-PP3020	Installation of precast pier and 2st pour for pile cap 5H	10.0	10.0	25-Feb-22	08-Mar-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 9H		17.0	17.0	01-Mar-22	17-Mar-22	
S1-PP2120	Preparation work and delivery works for Pier 9H	5.0	5.0	01-Mar-22	05-Mar-22	0%
S1-PP3100	Installation of precast pier and 2st pour for pile cap 9H	10.0	10.0	07-Mar-22	17-Mar-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 5D		25.0	25.0	25-Feb-22	21-Mar-22	
S1-PP2200	Preparation work and delivery works for Pier 5D	5.0	5.0	25-Feb-22	01-Mar-22	0%
S1-PP3180	Installation of precast pier and 2st pour for pile cap 5D	10.0	10.0	10-Mar-22	21-Mar-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 5E		17.0	17.0	06-Mar-22	22-Mar-22	
S1-PP2280	Preparation work and delivery works for Pier 5E	5.0	5.0	06-Mar-22	10-Mar-22	0%
S1-PP3260	Installation of precast pier and 2st pour for pile cap 5E	10.0	10.0	11-Mar-22	22-Mar-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 9D		21.0	21.0	02-Mar-22	22-Mar-22	
S1-PP2220	Preparation work and delivery works for Pier 9D	5.0	5.0	02-Mar-22	06-Mar-22	0%
S1-PP3200	Installation of precast pier and 2st pour for pile cap 9D	10.0	10.0	11-Mar-22	22-Mar-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 9E		16.0	16.0	11-Mar-22	26-Mar-22	
S1-PP2300	Preparation work and delivery works for Pier 9E	5.0	5.0	11-Mar-22	15-Mar-22	0%
S1-PP3280	Installation of precast pier and 2st pour for pile cap 9E	10.0	10.0	16-Mar-22	26-Mar-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 5F		17.0	17.0	13-Mar-22	29-Mar-22	
S1-PP2240	Preparation work and delivery works for Pier 5F	5.0	5.0	13-Mar-22	17-Mar-22	0%
S1-PP3220	Installation of precast pier and 2st pour for pile cap 5F	10.0	10.0	18-Mar-22	29-Mar-22	0%
Installation of Precast Pier & 2nd Pour for Pile Cap - 9F		16.0	16.0	17-Mar-22	01-Apr-22	
S1-PP2100	Preparation work and delivery works for Pier 9F	5.0	5.0	17-Mar-22	21-Mar-22	0%
S1-PP3080	Installation of precast pier and 2st pour for pile cap 9F	10.0	10.0	22-Mar-22	01-Apr-22	0%
Stage 2 - Erection of Bridge Segments		43.0	43.0	01-Mar-22	12-Apr-22	
Erection of Bridge Segments for Bridge S400 and Bridge CT		43.0	43.0	01-Mar-22	12-Apr-22	
Segment erection between Pier 5H and Pier W5 - Stage 2-1		9.0	9.0	01-Mar-22	09-Mar-22	
S1-EB2002	Preparation work and delivery works for segment between Pier 5H and W5 (B1-1)	5.0	5.0	01-Mar-22	05-Mar-22	0%
S1-EB2004	Segment erection between Pier 5H and Pier W5	1.0	1.0	09-Mar-22	09-Mar-22	0%
Segment erection between Pier 9D and Pier 9E - Stage 2-4		9.0	9.0	19-Mar-22	27-Mar-22	
S1-EB2064	Preparation work and delivery works for segment between Pier 9D and Pier 9E (B2-2)	5.0	5.0	19-Mar-22	23-Mar-22	0%
S1-EB2065	Segment erection between Pier 9D and Pier 9E	1.0	1.0	27-Mar-22	27-Mar-22	0%
Segment erection between Pier 5E and Pier 5F - Stage 2-7		18.0	18.0	17-Mar-22	03-Apr-22	
S1-EB2066	Preparation work and delivery works for segment between Pier 5E and Pier 5F (B1-3)	5.0	5.0	17-Mar-22	21-Mar-22	0%
S1-EB2067	Segment erection between Pier 5E and Pier 5F	1.0	1.0	03-Apr-22	03-Apr-22	0%
Segment erection between Pier 9E and Pier 9F - Stage 2-8		11.0	11.0	25-Mar-22	04-Apr-22	
S1-EB2068	Preparation work and delivery works for segment between Pier 9E and Pier 9F (B2-3)	5.0	5.0	25-Mar-22	29-Mar-22	0%
S1-EB2069	Segment erection between Pier 9E and Pier 9F	1.0	1.0	04-Apr-22	04-Apr-22	0%
Segment erection between Pier 5F and Pier 5G - Stage 2-13		7.0	7.0	03-Apr-22	09-Apr-22	
S1-EB2070	Preparation work and delivery works for segment between Pier 5F and Pier 5G (B3-3)	5.0	5.0	03-Apr-22	07-Apr-22	0%
S1-EB2075	Segment erection between Pier 5Fand Pier 5G	1.0	1.0	09-Apr-22	09-Apr-22	0%
Segment erection between Pier 9F and Pier 9G - Stage 2-14		9.0	9.0	02-Apr-22	10-Apr-22	
S1-EB2080	Preparation work and delivery works for segment between Pier 5G and Pier 5H (B4-3)	5.0	5.0	02-Apr-22	06-Apr-22	0%
S1-EB2081	Segment erection between Pier 9F and Pier 9G	1.0	1.0	10-Apr-22	10-Apr-22	0%

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Three Month Rolling Programme (February 2022 - May 2022)

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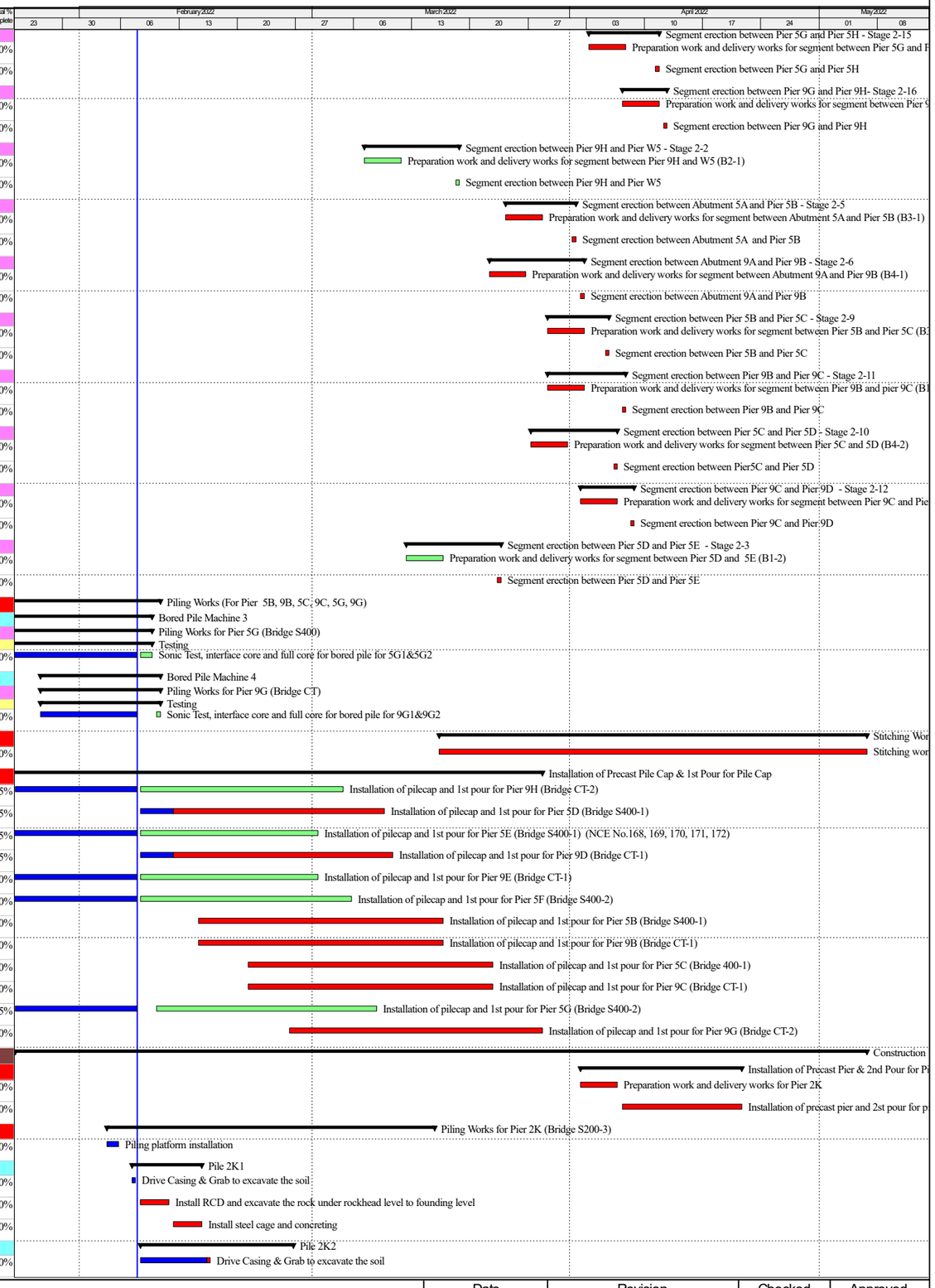
Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Physical % Complete
Segment erection between Pier 5G and Pier 5H - Stage 2-15		9.0	9.0	03-Apr-22	11-Apr-22	
S1-EB2090	Preparation work and delivery works for segment between Pier 5G and Pier 5H (B1-5)	5.0	5.0	03-Apr-22	07-Apr-22	0%
S1-EB2091	Segment erection between Pier 5G and Pier 5H	1.0	1.0	11-Apr-22	11-Apr-22	0%
Segment erection between Pier 9G and Pier 9H- Stage 2-16		6.0	6.0	07-Apr-22	12-Apr-22	
S1-EB2100	Preparation work and delivery works for segment between Pier 9G and Pier 9H (B2-5)	5.0	5.0	07-Apr-22	11-Apr-22	0%
S1-EB2101	Segment erection between Pier 9G and Pier 9H	1.0	1.0	12-Apr-22	12-Apr-22	0%
Segment erection between Pier 9H and Pier W5 - Stage 2-2		12.0	12.0	07-Mar-22	18-Mar-22	
S1-EB2005	Preparation work and delivery works for segment between Pier 9H and W5 (B2-1)	5.0	5.0	07-Mar-22	11-Mar-22	0%
S1-EB2008	Segment erection between Pier 9H and Pier W5	1.0	1.0	18-Mar-22	18-Mar-22	0%
Segment erection between Abutment 5A and Pier 5B - Stage 2-5		9.0	9.0	24-Mar-22	01-Apr-22	
S1-EB2010	Preparation work and delivery works for segment between Abutment 5A and Pier 5B (B3-1)	5.0	5.0	24-Mar-22	28-Mar-22	0%
S1-EB2015	Segment erection between Abutment 5A and Pier 5B	1.0	1.0	01-Apr-22	01-Apr-22	0%
Segment erection between Abutment 9A and Pier 9B - Stage 2-6		12.0	12.0	22-Mar-22	02-Apr-22	
S1-EB2020	Preparation work and delivery works for segment between Abutment 9A and Pier 9B (B4-1)	5.0	5.0	22-Mar-22	26-Mar-22	0%
S1-EB2025	Segment erection between Abutment 9A and Pier 9B	1.0	1.0	02-Apr-22	02-Apr-22	0%
Segment erection between Pier 5B and Pier 5C - Stage 2-9		8.0	8.0	29-Mar-22	05-Apr-22	
S1-EB2030	Preparation work and delivery works for segment between Pier 5B and Pier 5C (B3-2)	5.0	5.0	29-Mar-22	02-Apr-22	0%
S1-EB2035	Segment erection between Pier 5B and Pier 5C	1.0	1.0	05-Apr-22	05-Apr-22	0%
Segment erection between Pier 9B and Pier 9C - Stage 2-11		10.0	10.0	29-Mar-22	07-Apr-22	
S1-EB2040	Preparation work and delivery works for segment between Pier 9B and pier 9C (B1-4)	5.0	5.0	29-Mar-22	02-Apr-22	0%
S1-EB2045	Segment erection between Pier 9B and Pier 9C	1.0	1.0	07-Apr-22	07-Apr-22	0%
Segment erection between Pier 5C and Pier 5D - Stage 2-10		11.0	11.0	27-Mar-22	06-Apr-22	
S1-EB2050	Preparation work and delivery works for segment between Pier 5C and 5D (B4-2)	5.0	5.0	27-Mar-22	31-Mar-22	0%
S1-EB2055	Segment erection between Pier5C and Pier 5D	1.0	1.0	06-Apr-22	06-Apr-22	0%
Segment erection between Pier 9C and Pier 9D - Stage 2-12		7.0	7.0	02-Apr-22	08-Apr-22	
S1-EB2060	Preparation work and delivery works for segment between Pier 9C and Pier 9D (B2-4)	5.0	5.0	02-Apr-22	06-Apr-22	0%
S1-EB2061	Segment erection between Pier 9C and Pier 9D	1.0	1.0	08-Apr-22	08-Apr-22	0%
Segment erection between Pier 5D and Pier 5E - Stage 2-3		12.0	12.0	12-Mar-22	23-Mar-22	
S1-EB2062	Preparation work and delivery works for segment between Pier 5D and 5E (B1-2)	5.0	5.0	12-Mar-22	16-Mar-22	0%
S1-EB5260	Segment erection between Pier 5D and Pier 5E	1.0	1.0	23-Mar-22	23-Mar-22	0%
Piling Works (For Pier 5B, 9B, 5C, 9C, 5G, 9G)		14.0	3.0	19-Jan-22 A	10-Feb-22	
Bored Pile Machine 3		7.0	2.0	19-Jan-22 A	09-Feb-22	
Piling Works for Pier 5G (Bridge S400)		7.0	2.0	19-Jan-22 A	09-Feb-22	
Testing		7.0	2.0	19-Jan-22 A	09-Feb-22	
S1-PW3460	Sonic Test, interface core and full core for bored pile for 5G1&5G2	7.0	2.0	19-Jan-22 A	09-Feb-22	80%
Bored Pile Machine 4		7.0	1.0	27-Jan-22 A	10-Feb-22	
Piling Works for Pier 9G (Bridge CT)		7.0	1.0	27-Jan-22 A	10-Feb-22	
Testing		7.0	1.0	27-Jan-22 A	10-Feb-22	
S1-PW3940	Sonic Test, interface core and full core for bored pile for 9G1&9G2	7.0	1.0	27-Jan-22 A	10-Feb-22	70%
Stitching Work, TCSS, Duct and Handover Works		40.0	40.0	16-Mar-22	06-May-22	
S1-EB2120	Stitching works, laying of TCSS duct and handover to TCSS Contractor	40.0	40.0	16-Mar-22	06-May-22	0%
Installation of Precast Pile Cap & 1st Pour for Pile Cap		188.0	42.0	24-Aug-21 A	28-Mar-22	
S1-PC1040	Installation of pilecap and 1st pour for Pier 9H (Bridge CT-2)	26.0	22.0	24-Jan-22 A	04-Mar-22	25%
S1-PC1060	Installation of pilecap and 1st pour for Pier 5D (Bridge S400-1)	26.0	22.0	08-Feb-22 A	09-Mar-22	25%
S1-PC1080	Installation of pilecap and 1st pour for Pier 5E (Bridge S400-1) (NCE No.168, 169, 170, 171, 172)	26.0	19.0	19-Sep-21 A	01-Mar-22	65%
S1-PC1120	Installation of pilecap and 1st pour for Pier 9D (Bridge CT-1)	26.0	23.0	08-Feb-22 A	10-Mar-22	25%
S1-PC1140	Installation of pilecap and 1st pour for Pier 9E (Bridge CT-1)	26.0	19.0	20-Sep-21 A	01-Mar-22	50%
S1-PC1160	Installation of pilecap and 1st pour for Pier 5F (Bridge S400-2)	26.0	23.0	24-Aug-21 A	05-Mar-22	70%
S1-PC2002	Installation of pilecap and 1st pour for Pier 5B (Bridge S400-1)	26.0	26.0	15-Feb-22	16-Mar-22	0%
S1-PC2005	Installation of pilecap and 1st pour for Pier 9B (Bridge CT-1)	26.0	26.0	15-Feb-22	16-Mar-22	0%
S1-PC2020	Installation of pilecap and 1st pour for Pier 5C (Bridge 400-1)	26.0	26.0	21-Feb-22	22-Mar-22	0%
S1-PC2040	Installation of pilecap and 1st pour for Pier 9C (Bridge CT-1)	26.0	26.0	21-Feb-22	22-Mar-22	0%
S1-PC2120	Installation of pilecap and 1st pour for Pier 5G (Bridge S400-2)	26.0	23.0	24-Jan-22 A	08-Mar-22	25%
S1-PC2140	Installation of pilecap and 1st pour for Pier 9G (Bridge CT-2)	26.0	26.0	26-Feb-22	28-Mar-22	0%
Construction Work for Pier 2K		103.0	88.0	24-Jan-22 A	06-May-22	
Installation of Precast Pier & 2nd Pour for Pile Cap (Pier 2K)		20.0	20.0	02-Apr-22	21-Apr-22	
S1-PP2320	Preparation work and delivery works for Pier 2K	5.0	5.0	02-Apr-22	06-Apr-22	0%
S1-PP5600	Installation of precast pier and 2st pour for pile cap 2K	10.0	10.0	07-Apr-22	21-Apr-22	0%
Piling Works for Pier 2K (Bridge S200-3)		34.0	31.0	04-Feb-22 A	15-Mar-22	
S1-PW5000	Piling platform installation	2.0	0.0	04-Feb-22 A	05-Feb-22 A	100%
Pile 2K1		11.0	7.0	07-Feb-22 A	15-Feb-22	
S1-PW5020	Drive Casing & Grab to excavate the soil	5.0	0.0	07-Feb-22 A	07-Feb-22 A	100%
S1-PW5040	Install RCD and excavate the rock under rockhead level to founding level	6.0	4.0	08-Feb-22 A	11-Feb-22	30%
S1-PW5060	Install steel cage and concreting	3.0	3.0	12-Feb-22	15-Feb-22	0%
Pile 2K2		10.0	10.0	08-Feb-22 A	26-Feb-22	
S1-PW5080	Drive Casing & Grab to excavate the soil	5.0	1.0	08-Feb-22 A	16-Feb-22	20%



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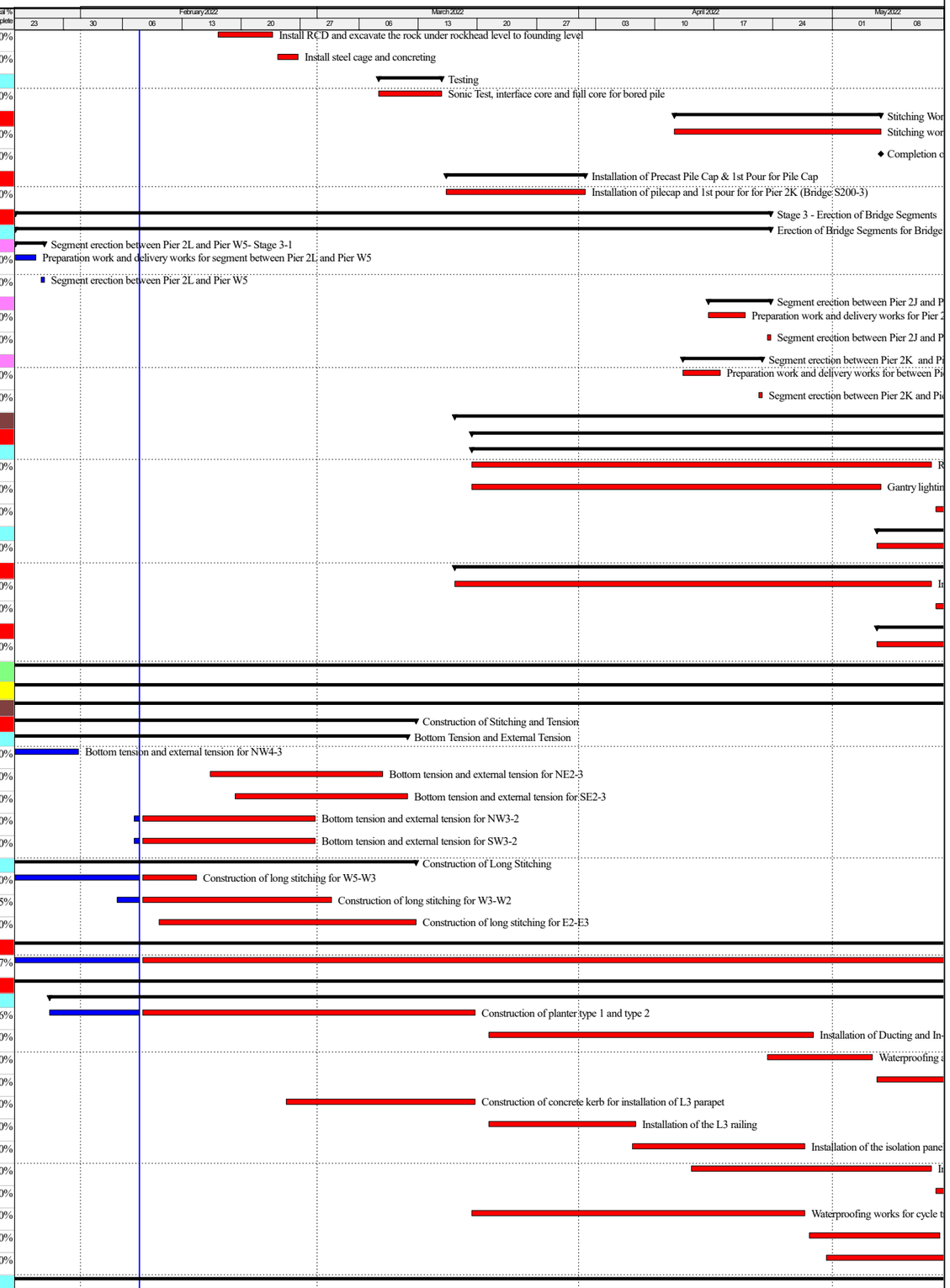
Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Physical % Complete
S1-PW5100	Install RCD and excavate the rock under rockhead level to founding level	6.0	6.0	17-Feb-22	23-Feb-22	0%
S1-PW5120	Install steel cage and concreting	3.0	3.0	24-Feb-22	26-Feb-22	0%
Testing		7.0	7.0	08-Mar-22	15-Mar-22	
S1-PW5140	Sonic Test, interface core and full core for bored pile	7.0	7.0	08-Mar-22	15-Mar-22	0%
Stitching Work, TCSS, Duct and Handover Works		18.0	18.0	12-Apr-22	06-May-22	
S1-EB3030	Stitching works, laying of TCSS duct and handover to TCSS Contractor	18.0	18.0	12-Apr-22	06-May-22	0%
S1-EB5000	Completion of Key Date 3B	0.0	0.0		06-May-22	0%
Installation of Precast Pile Cap & 1st Pour for Pile Cap		15.0	15.0	16-Mar-22	01-Apr-22	
S1-PC5000	Installation of pilecap and 1st pour for for Pier 2K (Bridge S200-3)	15.0	15.0	16-Mar-22	01-Apr-22	0%
Stage 3 - Erection of Bridge Segments		90.0	11.0	24-Jan-22 A	23-Apr-22	
Erection of Bridge Segments for Bridge S200		90.0	11.0	24-Jan-22 A	23-Apr-22	
Segment erection between Pier 2L and Pier W5- Stage 3-1		14.0	0.0	24-Jan-22 A	27-Jan-22 A	
S1-EB3005	Preparation work and delivery works for segment between Pier 2L and Pier W5	14.0	0.0	24-Jan-22 A	26-Jan-22 A	100%
S1-EB5240	Segment erection between Pier 2L and Pier W5	1.0	0.0	27-Jan-22 A	27-Jan-22 A	100%
Segment erection between Pier 2J and Pier 2K - Stage 3-3		8.0	8.0	16-Apr-22	23-Apr-22	
S1-EB3010	Preparation work and delivery works for Pier 2J and Pier 2K (B2-6)	5.0	5.0	16-Apr-22	20-Apr-22	0%
S1-EB5440	Segment erection between Pier 2J and Pier 2K	1.0	1.0	23-Apr-22	23-Apr-22	0%
Segment erection between Pier 2K and Pier 2L - Stage 3-2		10.0	10.0	13-Apr-22	22-Apr-22	
S1-EB3020	Preparation work and delivery works for between Pier 2K and Pier 2L (B1-6)	5.0	5.0	13-Apr-22	17-Apr-22	0%
S1-EB5460	Segment erection between Pier 2K and Pier 2L	1.0	1.0	22-Apr-22	22-Apr-22	0%
E&M Works		103.0	103.0	17-Mar-22	27-Jun-22	
Road Lighting & Gantry Lighting Installation		97.0	97.0	19-Mar-22	23-Jun-22	
Road Lighting & Gantry Lighting Installationat Bridge ML		62.0	62.0	19-Mar-22	19-May-22	
S1-EM1000	Road lighting installation works	41.0	41.0	19-Mar-22	12-May-22	0%
S1-EM1020	Gantry lighting installation works	37.0	37.0	19-Mar-22	06-May-22	0%
S1-EM1060	Testing & Commissioning	7.0	7.0	13-May-22	19-May-22	0%
Road Lighting Installationat Bridge S400, Bridge CT & Bridge S200		40.0	40.0	06-May-22	23-Jun-22	
S1-EM1080	Road lighting installation works	40.0	40.0	06-May-22	23-Jun-22	0%
Concrete Deck Cell at Bridge ML - Eretctrial Work		64.0	64.0	17-Mar-22	19-May-22	
S1-EM1160	Installation works	43.0	43.0	17-Mar-22	12-May-22	0%
S1-EM1180	Testing & Commissioning	7.0	7.0	13-May-22	19-May-22	0%
Concrete Deck Cell at Bridge S400, Bridge CT & Bridge S200 - Eretctrial Work		43.0	43.0	06-May-22	27-Jun-22	
S1-EM1200	Installation works	43.0	43.0	06-May-22	27-Jun-22	0%
Section 2 of Works-All Works within Portion II,III,IV and VI		545.0	143.0	30-Aug-21 A	30-Jun-22	
CBL Main Bridge and Marine Viaduct		437.0	112.0	30-Aug-21 A	25-Jun-22	
Concrete Bridge		435.0	110.0	31-Aug-21 A	23-Jun-22	
Construction of Stitching and Tension		39.0	29.0	15-Jan-22 A	12-Mar-22	
Bottom Tension and External Tension		29.0	28.0	15-Jan-22 A	11-Mar-22	
S2-CB3245	Bottom tension and external tension for NW4-3	18.0	0.0	15-Jan-22 A	31-Jan-22 A	100%
S2-CB3340	Bottom tension and external tension for NE2-3	18.0	18.0	16-Feb-22	08-Mar-22	0%
S2-CB3360	Bottom tension and external tension for SE2-3	18.0	18.0	19-Feb-22	11-Mar-22	0%
S2-CB3370	Bottom tension and external tension for NW3-2	18.0	18.0	07-Feb-22 A	28-Feb-22	10%
S2-CB3380	Bottom tension and external tension for SW3-2	18.0	18.0	07-Feb-22 A	28-Feb-22	10%
Construction of Long Stitching		38.0	29.0	18-Jan-22 A	12-Mar-22	
S2-CB3420	Construction of long stitching for W5-W3	27.0	6.0	18-Jan-22 A	14-Feb-22	50%
S2-CB3430	Construction of long stitching for W3-W2	27.0	20.0	05-Feb-22 A	02-Mar-22	15%
S2-CB3540	Construction of long stitching for E2-E3	27.0	27.0	10-Feb-22	12-Mar-22	0%
Procurement and Delivery		240.0	80.0	31-Aug-21 A	18-May-22	
S2-CB2488	Procurement and delivery of bituminous materials	240.0	80.0	31-Aug-21 A	18-May-22	77%
Road Works and Surface Furniture		157.0	110.0	27-Oct-21 A	23-Jun-22	
Road Works and Surface Furniture at W5 - W2		90.0	90.0	28-Jan-22 A	30-May-22	
S2-CB4900	Construction of planter type 1 and type 2	30.0	35.0	28-Jan-22 A	19-Mar-22	6%
S2-CB4920	Installation of Ducting and In-situ Concreting	30.0	30.0	21-Mar-22	28-Apr-22	0%
S2-CB4930	Waterproofing and soiling for planter type 1 and type 2	10.0	10.0	23-Apr-22	05-May-22	0%
S2-CB4940	Installation of Lighting Post and Lighting Cabinet	15.0	15.0	06-May-22	24-May-22	0%
S2-CB4960	Construction of concrete kerb for installation of L3 parapet	20.0	20.0	25-Feb-22	19-Mar-22	0%
S2-CB4980	Installation of the L3 railing	15.0	15.0	21-Mar-22	07-Apr-22	0%
S2-CB5000	Installation of the isolation panel	15.0	15.0	07-Apr-22	27-Apr-22	0%
S2-CB5040	Installation of the balustrade	20.0	20.0	14-Apr-22	12-May-22	0%
S2-CB5060	Waterproofing for Footpath	15.0	15.0	13-May-22	30-May-22	0%
S2-CB5100	Waterproofing works for cycle track and carriageway	30.0	30.0	19-Mar-22	27-Apr-22	0%
S2-CB5120	Road pavement for cycle track	12.0	12.0	28-Apr-22	13-May-22	0%
S2-CB5140	Road pavement for carriageway	23.0	23.0	30-Apr-22	28-May-22	0%
Road Works and Surface Furniture at E2 - EA		117.0	110.0	27-Oct-21 A	23-Jun-22	



Remaining Level of Effort
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Three Month Rolling Programme (February 2022 - May 2022)

Date	Revision	Checked	Approved
08-Feb-22	3MRP (Feb 22 - May 22)		

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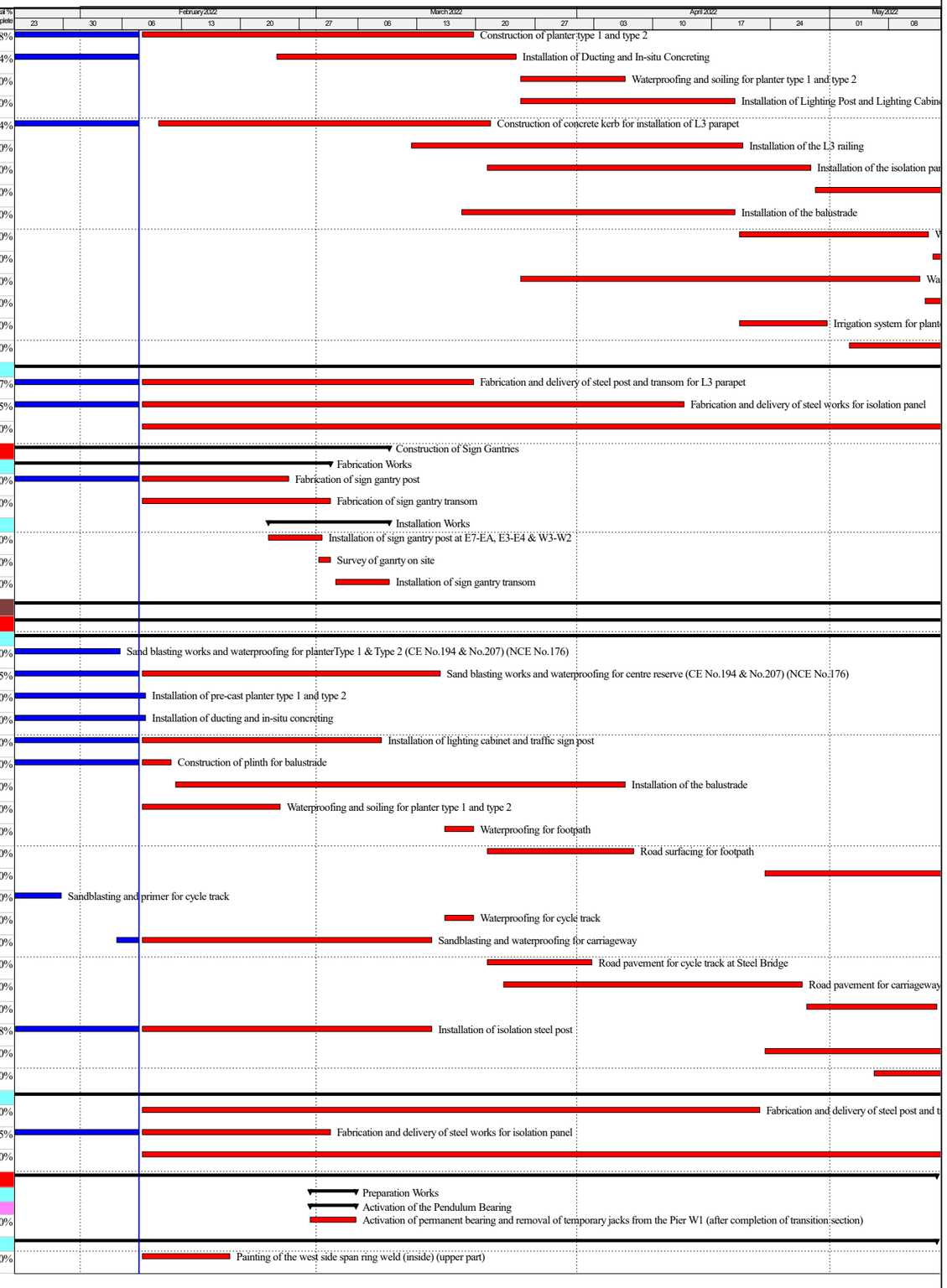
Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Physical % Complete
S2-CB5160	Construction of planter type 1 and type 2	35.0	35.0	27-Oct-21 A	19-Mar-22	38%
S2-CB5180	Installation of Ducting and In-situ Concreting	35.0	25.0	10-Jan-22 A	24-Mar-22	28.4%
S2-CB5190	Waterproofing and soiling for planter type 1 and type 2	10.0	10.0	25-Mar-22	06-Apr-22	0%
S2-CB5200	Installation of Lighting Post and Lighting Cabinet	18.0	18.0	25-Mar-22	19-Apr-22	0%
S2-CB5210	Construction of concrete kerb for installation of L3 parapet	25.0	34.0	10-Jan-22 A	21-Mar-22	28.4%
S2-CB5240	Installation of the L3 railing	30.0	30.0	12-Mar-22	20-Apr-22	0%
S2-CB5260	Installation of the isolation panel	30.0	30.0	21-Mar-22	28-Apr-22	0%
S2-CB5280	Installation of isolation PMMA panel	20.0	20.0	29-Apr-22	24-May-22	0%
S2-CB5300	Installation of the balustrade	24.0	24.0	18-Mar-22	19-Apr-22	0%
S2-CB5320	Waterproofing for Footpath	18.0	18.0	20-Apr-22	12-May-22	0%
S2-CB5340	Paving block Laying for Footpath	35.0	35.0	13-May-22	23-Jun-22	0%
S2-CB5360	Waterproofing works for cycle track and carriageway	35.0	35.0	25-Mar-22	11-May-22	0%
S2-CB5380	Road pavement for cycle track	16.0	16.0	12-May-22	30-May-22	0%
S2-CB5420	Irrigation system for planter type 2	10.0	10.0	20-Apr-22	30-Apr-22	0%
S2-CB5440	Planting works for planter type 1 and 2	10.0	10.0	03-May-22	14-May-22	0%
Fabrication and Delivery Works		137.0	90.0	13-Nov-21 A	30-May-22	
S2-CB5480	Fabrication and delivery of steel post and transom for L3 parapet	60.0	35.0	05-Jan-22 A	19-Mar-22	16.7%
S2-CB5500	Fabrication and delivery of steel works for isolation panel	80.0	55.0	13-Nov-21 A	13-Apr-22	55%
S2-CB5520	Fabrication of PMMA panel	90.0	90.0	08-Feb-22*	30-May-22	0%
Construction of Sign Gantries		73.0	26.0	19-Nov-21 A	09-Mar-22	
Fabrication Works		67.0	20.0	19-Nov-21 A	02-Mar-22	
S2-FW1000	Fabrication of sign gantry post	25.0	16.0	19-Nov-21 A	25-Feb-22	50%
S2-FW1020	Fabrication of sign gantry transom	20.0	20.0	08-Feb-22	02-Mar-22	0%
Installation Works		13.0	13.0	23-Feb-22	09-Mar-22	
S2-CB4530	Installation of sign gantry post at E7-EA, E3-E4 & W3-W2	6.0	6.0	23-Feb-22	01-Mar-22	0%
S2-CB4570	Survey of ganrty on site	2.0	2.0	01-Mar-22	02-Mar-22	0%
S2-CB4610	Installation of sign gantry transom	6.0	6.0	03-Mar-22	09-Mar-22	0%
Steel Bridge		169.0	112.0	30-Aug-21 A	25-Jun-22	
Road Works and Surface Furniture		167.0	110.0	27-Oct-21 A	23-Jun-22	
Road Works and Surface Furniture		167.0	110.0	27-Oct-21 A	23-Jun-22	
S2-RW1000	Sand blasting works and waterproofing for planterType 1 & Type 2 (CE No.194 & No.207) (NCE No.176)	65.0	0.0	27-Oct-21 A	05-Feb-22 A	100%
S2-RW1012	Sand blasting works and waterproofing for centre reserve (CE No.194 & No.207) (NCE No.176)	65.0	31.0	18-Jan-22 A	15-Mar-22	55%
S2-RW1015	Installation of pre-cast planter type 1 and type 2	25.0	0.0	04-Jan-22 A	08-Feb-22 A	100%
S2-RW1020	Installation of ducting and in-situ concreting	50.0	0.0	12-Jan-22 A	08-Feb-22 A	100%
S2-RW1062	Installation of lighting cabinet and traffic sign post	28.0	25.0	12-Jan-22 A	08-Mar-22	80%
S2-RW1066	Construction of plinth for balustrade	45.0	4.0	03-Jan-22 A	11-Feb-22	50%
S2-RW1067	Installation of the balustrade	45.0	45.0	12-Feb-22	06-Apr-22	0%
S2-RW1068	Waterproofing and soiling for planter type 1 and type 2	15.0	15.0	08-Feb-22	24-Feb-22	0%
S2-RW1070	Waterproofing for footpath	4.0	4.0	16-Mar-22	19-Mar-22	0%
S2-RW1071	Road surfacing for footpath	15.0	15.0	21-Mar-22	07-Apr-22	0%
S2-RW1072	Paving block laying for footpath	50.0	50.0	23-Apr-22	23-Jun-22	0%
S2-RW1073	Sandblasting and primer for cycle track	20.0	0.0	28-Dec-21 A	29-Jan-22 A	100%
S2-RW1073-1	Waterproofing for cycle track	4.0	4.0	16-Mar-22	19-Mar-22	0%
S2-RW1074	Sandblasting and waterproofing for carriageway	30.0	30.0	05-Feb-22 A	14-Mar-22	20%
S2-RW1075	Road pavement for cycle track at Steel Bridge	12.0	12.0	21-Mar-22	02-Apr-22	0%
S2-RW1076	Road pavement for carriageway at Steel Bridge	27.0	27.0	23-Mar-22	27-Apr-22	0%
S2-RW1077	Irrigation system for planter type 2	12.0	12.0	28-Apr-22	13-May-22	0%
S2-RW1140	Installation of isolation steel post	45.0	30.0	24-Jan-22 A	14-Mar-22	18%
S2-RW1160	Installation of L3 railing	50.0	50.0	23-Apr-22	23-Jun-22	0%
S2-RW1202	Installation of isolation PMMA panel	20.0	20.0	06-May-22	30-May-22	0%
Fabrication and Delivery Works		137.0	90.0	12-Nov-21 A	30-May-22	
S2-CB5540	Fabrication and delivery of steel post and transom for L3 parapet	60.0	60.0	08-Feb-22*	22-Apr-22	0%
S2-CB5560	Fabrication and delivery of steel works for isolation panel	60.0	20.0	12-Nov-21 A	02-Mar-22	45%
S2-CB5580	Fabrication of PMMA panel	90.0	90.0	08-Feb-22*	30-May-22	0%
Welding & Painting Works		145.0	76.0	04-Dec-21 A	13-May-22	
Preparation Works		6.0	6.0	28-Feb-22	05-Mar-22	
Activation of the Pendulum Bearing		6.0	6.0	28-Feb-22	05-Mar-22	
S2-SB1520	Activation of permanent bearing and removal of temporary jacks from the Pier W1 (after completion of transition section)	6.0	6.0	28-Feb-22	05-Mar-22	0%
Painting of the Ring Weld		145.0	76.0	04-Dec-21 A	13-May-22	
S2-SB2040	Painting of the west side span ring weld (inside) (upper part)	10.0	10.0	08-Feb-22	18-Feb-22	0%



Remaining Level of Effort
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Three Month Rolling Programme (February 2022 - May 2022)

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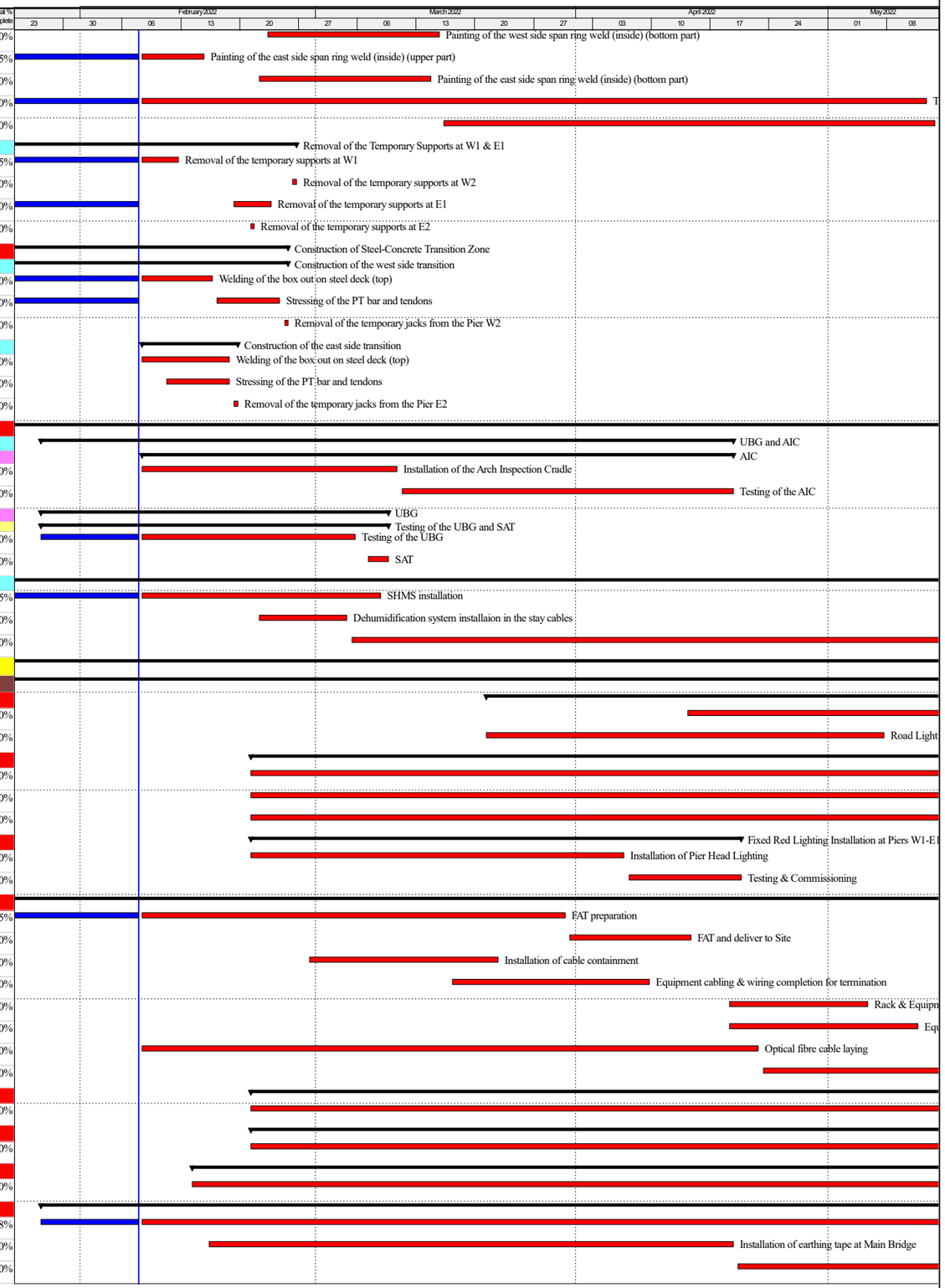
Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Physical % Complete
S2-SB2045	Painting of the west side span ring weld (inside) (bottom part)	18.0	18.0	23-Feb-22	15-Mar-22	0%
S2-SB2060	Painting of the east side span ring weld (inside) (upper part)	10.0	7.0	04-Dec-21 A	15-Feb-22	55%
S2-SB2065	Painting of the east side span ring weld (inside) (bottom part)	18.0	18.0	22-Feb-22	14-Mar-22	0%
S2-SB2080	Top coating of the steel deck	98.0	75.0	08-Jan-22 A	12-May-22	20%
S2-SB2100	Painting repair of the arch rib	45.0	45.0	16-Mar-22	13-May-22	0%
Removal of the Temporary Supports at W1 & E1		40.0	17.0	03-Jan-22 A	26-Feb-22	
S2-SB2220	Removal of the temporary supports at W1	10.0	5.0	04-Jan-22 A	12-Feb-22	35%
S2-SB2240	Removal of the temporary supports at W2	1.0	1.0	26-Feb-22	26-Feb-22	0%
S2-SB2260	Removal of the temporary supports at E1	10.0	4.0	03-Jan-22 A	23-Feb-22	40%
S2-SB2280	Removal of the temporary supports at E2	1.0	1.0	21-Feb-22	21-Feb-22	0%
Construction of Steel-Concrete Transition Zone		39.0	16.0	20-Dec-21 A	25-Feb-22	
Construction of the west side transition		39.0	16.0	20-Dec-21 A	25-Feb-22	
S2-CT1060	Welding of the box out on steel deck (top)	10.0	8.0	20-Dec-21 A	16-Feb-22	90%
S2-CT1080	Stressing of the PT bar and tendons	7.0	7.0	04-Jan-22 A	24-Feb-22	50%
S2-CT1100	Removal of the temporary jacks from the Pier W2	1.0	1.0	25-Feb-22	25-Feb-22	0%
Construction of the east side transition		11.0	11.0	08-Feb-22	19-Feb-22	
S2-CT1180	Welding of the box out on steel deck (top)	10.0	10.0	08-Feb-22	18-Feb-22	0%
S2-CT1200	Stressing of the PT bar and tendons	7.0	7.0	11-Feb-22	18-Feb-22	0%
S2-CT1220	Removal of the temporary jacks from the Pier E2	1.0	1.0	19-Feb-22	19-Feb-22	0%
Associaited, E&M Works for CBL Main Bridge and Marine Viaduct		144.0	112.0	30-Aug-21 A	25-Jun-22	
UBG and AIC		57.0	57.0	27-Jan-22 A	19-Apr-22	
AIC		57.0	57.0	08-Feb-22	19-Apr-22	
S2-EM1320	Installation of the Arch Inspection Cradle	27.0	27.0	08-Feb-22	10-Mar-22	0%
S2-EM1340	Testing of the AIC	30.0	30.0	11-Mar-22	19-Apr-22	0%
UBG		30.0	26.0	27-Jan-22 A	09-Mar-22	
Testing of the UBG and SAT		30.0	26.0	27-Jan-22 A	09-Mar-22	
S2-EM1280	Testing of the UBG	30.0	23.0	27-Jan-22 A	05-Mar-22	20%
S2-EM1300	SAT	3.0	3.0	07-Mar-22	09-Mar-22	0%
Installation of Other Systems		144.0	112.0	30-Aug-21 A	25-Jun-22	
S2-EM1360	SHMS installation	60.0	25.0	30-Aug-21 A	08-Mar-22	45%
S2-EM1380	Dehumidification system installaion in the stay cables	10.0	10.0	22-Feb-22	04-Mar-22	0%
S2-EM1400	Commission and testing of the dehumidification system	90.0	90.0	05-Mar-22	25-Jun-22	0%
E&M Works		333.0	143.0	01-Dec-21 A	30-Jun-22	
E&M Works in Portion II,III & IV		333.0	143.0	01-Dec-21 A	30-Jun-22	
Road Lighting		57.0	57.0	21-Mar-22	01-Jun-22	
S2-EM1560	Road Lighting works at E2-EA	37.0	37.0	14-Apr-22	01-Jun-22	0%
S2-EM1620	Road Lighting works at W2-E2	37.0	37.0	21-Mar-22	07-May-22	0%
Pier Head Lighting Installation at Piers W5-EA		105.0	105.0	21-Feb-22	30-Jun-22	
S2-EM3040	Pier Head Lighting Installation at Piers W2-W5	101.0	101.0	21-Feb-22	25-Jun-22	0%
S2-EM3060	Pier Head Lighting Installation at Piers E2-EA	105.0	105.0	21-Feb-22	30-Jun-22	0%
S2-EM3080	Pier Head Lighting Installation at Piers W1-E1	96.0	96.0	21-Feb-22	20-Jun-22	0%
Fixed Red Lighting Installation at Piers W1-E1		59.0	59.0	21-Feb-22	20-Apr-22	
S2-EM3100	Installation of Pier Head Lighting	38.0	38.0	21-Feb-22	06-Apr-22	0%
S2-EM3120	Testing & Commissioning	14.0	14.0	07-Apr-22	20-Apr-22	0%
SCADA System		131.0	97.0	23-Dec-21 A	08-Jun-22	
S5-PR3240	FAT preparation	75.0	44.0	23-Dec-21 A	30-Mar-22	45%
S5-PR3260	FAT and deliver to Site	12.0	12.0	31-Mar-22	14-Apr-22	0%
S5-PR3280	Installation of cable containment	20.0	20.0	28-Feb-22	22-Mar-22	0%
S5-PR3300	Equipment cabling & wiring completion for termination	20.0	20.0	17-Mar-22	09-Apr-22	0%
S5-PR3320	Rack & Equipment on site installation	14.0	14.0	19-Apr-22	05-May-22	0%
S5-PR3340	Equipment & RIOU panel termination	18.0	18.0	19-Apr-22	11-May-22	0%
S5-PR3360	Optical fibre cable laying	60.0	60.0	08-Feb-22	22-Apr-22	0%
S5-PR3380	Cable & wiring Termination	37.0	37.0	23-Apr-22	08-Jun-22	0%
Navigation Lighting at Piers W1-E1		72.0	72.0	21-Feb-22	21-May-22	
S2-EM1630	Navigation Lighting Installation at Piers W1-E1	72.0	72.0	21-Feb-22	21-May-22	0%
Avigation Lighting at Piers W1-E1		88.0	88.0	21-Feb-22	10-Jun-22	
S2-EM1700	Avigation Lighting Installation at Piers W1-E1	88.0	88.0	21-Feb-22	10-Jun-22	0%
Functional Lighting at Piers W1-E1		90.0	90.0	14-Feb-22	06-Jun-22	
S2-EM1760	Equipment Installation of Functional Light	90.0	90.0	14-Feb-22	06-Jun-22	0%
Lightning System and Main Earthing System		117.0	108.0	27-Jan-22 A	26-May-22	
S2-EM1940	Lightning tape installation	94.0	87.0	27-Jan-22 A	26-May-22	8%
S2-EM1980	Installation of earthing tape at Main Bridge	50.0	50.0	16-Feb-22	19-Apr-22	0%
S2-EM1990	T&C for main earthing system	30.0	30.0	20-Apr-22	19-May-22	0%



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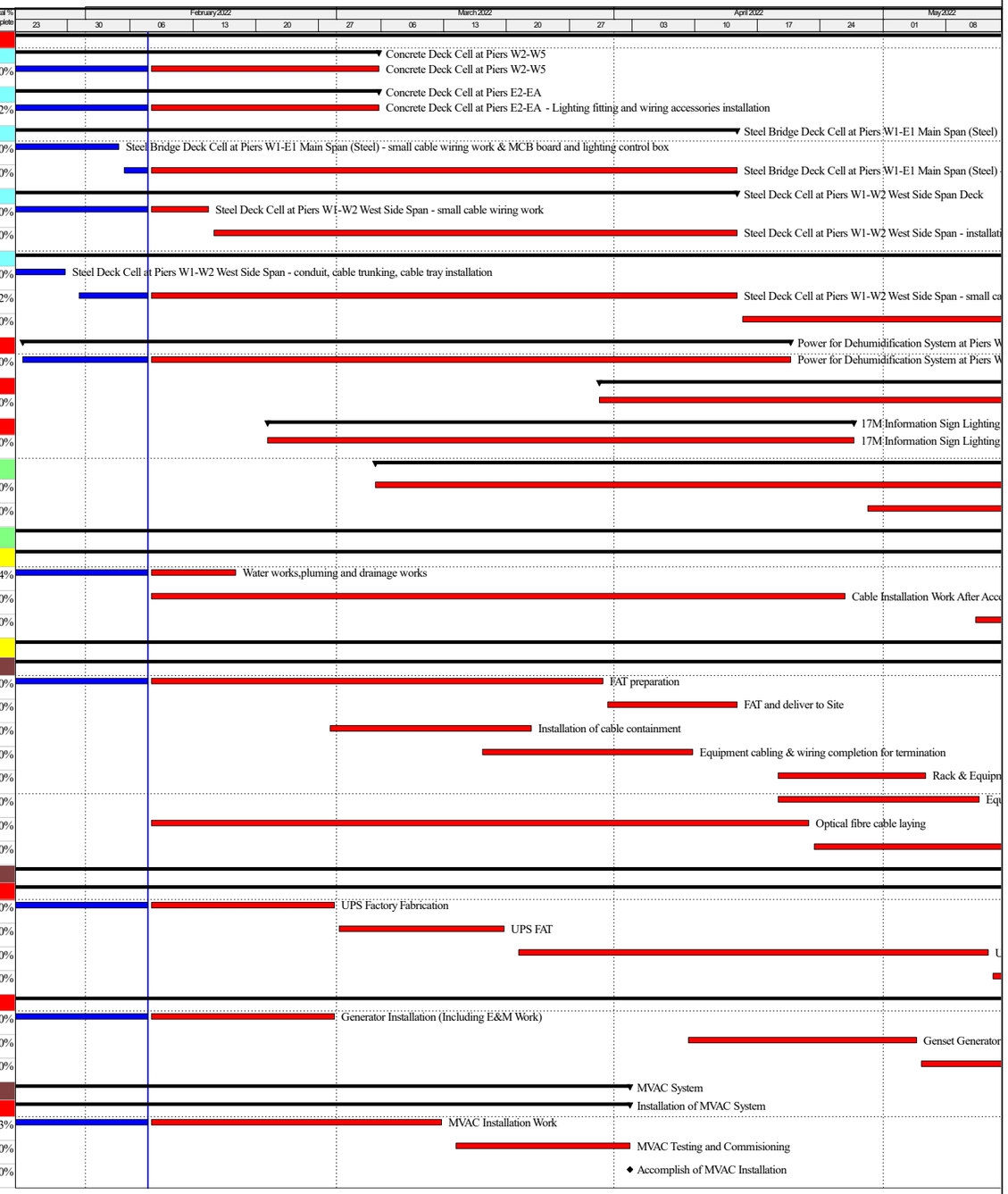
Data Date :08-Feb-22
Sheet 7of 7

Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Physical % Complete
Deck Cell - Eretctrial Work		289.0	96.0	01-Dec-21 A	14-May-22	
Concrete Deck Cell at Piers W2-W5		76.0	23.0	01-Dec-21 A	05-Mar-22	
S1-EM1240	Concrete Deck Cell at Piers W2-W5	76.0	23.0	01-Dec-21 A	05-Mar-22	70%
Concrete Deck Cell at Piers E2-EA		52.0	23.0	31-Dec-21 A	05-Mar-22	
S1-EM1320	Concrete Deck Cell at Piers E2-EA - Lighting fitting and wiring accessories installation	52.0	23.0	31-Dec-21 A	05-Mar-22	72%
Steel Bridge Deck Cell at Piers W1-E1 Main Span (Steel)		58.0	56.0	16-Dec-21 A	14-Apr-22	
S1-EM1340	Steel Bridge Deck Cell at Piers W1-E1 Main Span (Steel) - small cable wiring work & MCB board and lighting control box	38.0	0.0	16-Dec-21 A	04-Feb-22 A	100%
S1-EM1360	Steel Bridge Deck Cell at Piers W1-E1 Main Span (Steel) - installation of lighting fitting and wiring accessories	58.0	56.0	05-Feb-22 A	14-Apr-22	10%
Steel Deck Cell at Piers W1-W2 West Side Span Deck		54.0	56.0	16-Dec-21 A	14-Apr-22	
S1-EM1400	Steel Deck Cell at Piers W1-W2 West Side Span - small cable wiring work	46.0	6.0	16-Dec-21 A	14-Feb-22	80%
S1-EM1420	Steel Deck Cell at Piers W1-W2 West Side Span - installation of lighting fitting and wiring accessories	50.0	50.0	15-Feb-22	14-Apr-22	0%
Steel Deck Cell at Piers E1-E2 East Side Span Deck		97.0	96.0	01-Dec-21 A	14-May-22	
S1-EM1440	Steel Deck Cell at Piers W1-W2 West Side Span - conduit, cable trunking, cable tray installation	50.0	0.0	01-Dec-21 A	29-Jan-22 A	100%
S1-EM1460	Steel Deck Cell at Piers W1-W2 West Side Span - small cable wiring work	60.0	56.0	31-Jan-22 A	14-Apr-22	12%
S1-EM1480	Testing & Commissioning	30.0	30.0	15-Apr-22	14-May-22	0%
Power for Dehumidification System at Piers W1-E1		65.0	58.0	25-Jan-22 A	20-Apr-22	
S1-EM1500	Power for Dehumidification System at Piers W1-E1	65.0	58.0	25-Jan-22 A	20-Apr-22	0%
Gantry Lighting Installation at Piers W2 & E3		47.0	47.0	30-Mar-22	30-May-22	
S1-EM1520	Gantry Lighting Installation at Piers W2 & E3	47.0	47.0	30-Mar-22	30-May-22	0%
17M Information Sign Lighting Installation at Piers W1-E1		53.0	53.0	21-Feb-22	27-Apr-22	
S2-EM3020	17M Information Sign Lighting Installation at Piers W1-E1	53.0	53.0	21-Feb-22	27-Apr-22	0%
Section 3 of the Works-Comprises All of the Landscape Works		100.0	100.0	05-Mar-22	08-Jul-22	
S3-LW2000	Landscape works for CBL bridge	100.0	100.0	05-Mar-22	08-Jul-22	0%
S3-LW2020	Landscape works for TKO-LTT bridge	55.0	55.0	29-Apr-22	06-Jul-22	0%
Section 5 of the Works-All Works within Portion V (CBL E&M Plantroom)		670.0	183.0	30-Jul-20 A	09-Aug-22	
Remaining Work		594.0	183.0	30-Jul-20 A	09-Aug-22	
S5-PR2200	Water works,pluming and drainage works	60.0	9.0	30-Jul-20 A	17-Feb-22	94%
S5-PR2290	Cable Installation Work After Access Permitted (Portion VI)	63.0	63.0	08-Feb-22	26-Apr-22	0%
S5-PR2300	T&C for all systems after connection from plantroom to the bridge (incl. 15 days TRA)	78.0	78.0	11-May-22	09-Aug-22	0%
Major Services System		495.0	101.0	28-Sep-20 A	13-Jun-22	
SCADA System		131.0	97.0	23-Dec-21 A	08-Jun-22	
S5-PR3040	FAT preparation	75.0	44.0	23-Dec-21 A	30-Mar-22	30%
S5-PR3060	FAT and deliver to Site	12.0	12.0	31-Mar-22	14-Apr-22	0%
S5-PR3080	Installation of cable containment	20.0	20.0	28-Feb-22	22-Mar-22	0%
S5-PR3100	Equipment cabling & wiring completion for termination	20.0	20.0	17-Mar-22	09-Apr-22	0%
S5-PR3120	Rack & Equipment on site installation	14.0	14.0	19-Apr-22	05-May-22	0%
S5-PR3140	Equipment & RIOU panel termination	18.0	18.0	19-Apr-22	11-May-22	0%
S5-PR3160	Optical fibre cable laying	60.0	60.0	08-Feb-22	22-Apr-22	0%
S5-PR3180	Cable & wiring termination	37.0	37.0	23-Apr-22	08-Jun-22	0%
Electrical System		373.0	101.0	02-Oct-20 A	13-Jun-22	
UPS Room		168.0	101.0	15-Nov-21 A	13-Jun-22	
S5-PR2565	UPS Factory Fabrication	83.0	18.0	15-Nov-21 A	28-Feb-22	60%
S5-PR2570	UPS FAT	17.0	17.0	01-Mar-22	19-Mar-22	0%
S5-PR2575	UPS delivery	40.0	40.0	21-Mar-22	12-May-22	0%
S5-PR2580	UPS Installation (Including E&M Work)	26.0	26.0	13-May-22	13-Jun-22	0%
Generator Room		361.0	89.0	02-Oct-20 A	28-May-22	
S5-PR2500	Generator Installation (Including E&M Work)	90.0	18.0	02-Oct-20 A	28-Feb-22	90%
S5-PR2520	Genset Generator Control Cubicle site installation	18.0	18.0	09-Apr-22	04-May-22	0%
S5-PR2540	Generator SAT & Testing and Commisioning	20.0	20.0	05-May-22	28-May-22	0%
MVAC System		441.0	47.0	28-Sep-20 A	02-Apr-22	
Installation of MVAC System		441.0	47.0	28-Sep-20 A	02-Apr-22	
S5-PR2840	MVAC Installation Work	70.0	29.0	28-Sep-20 A	12-Mar-22	93%
S5-PR2900	MVAC Testing and Commisioning	18.0	18.0	14-Mar-22	02-Apr-22	0%
S5-PR2920	Accomplish of MVAC Installation	0.0	0.0		02-Apr-22	0%



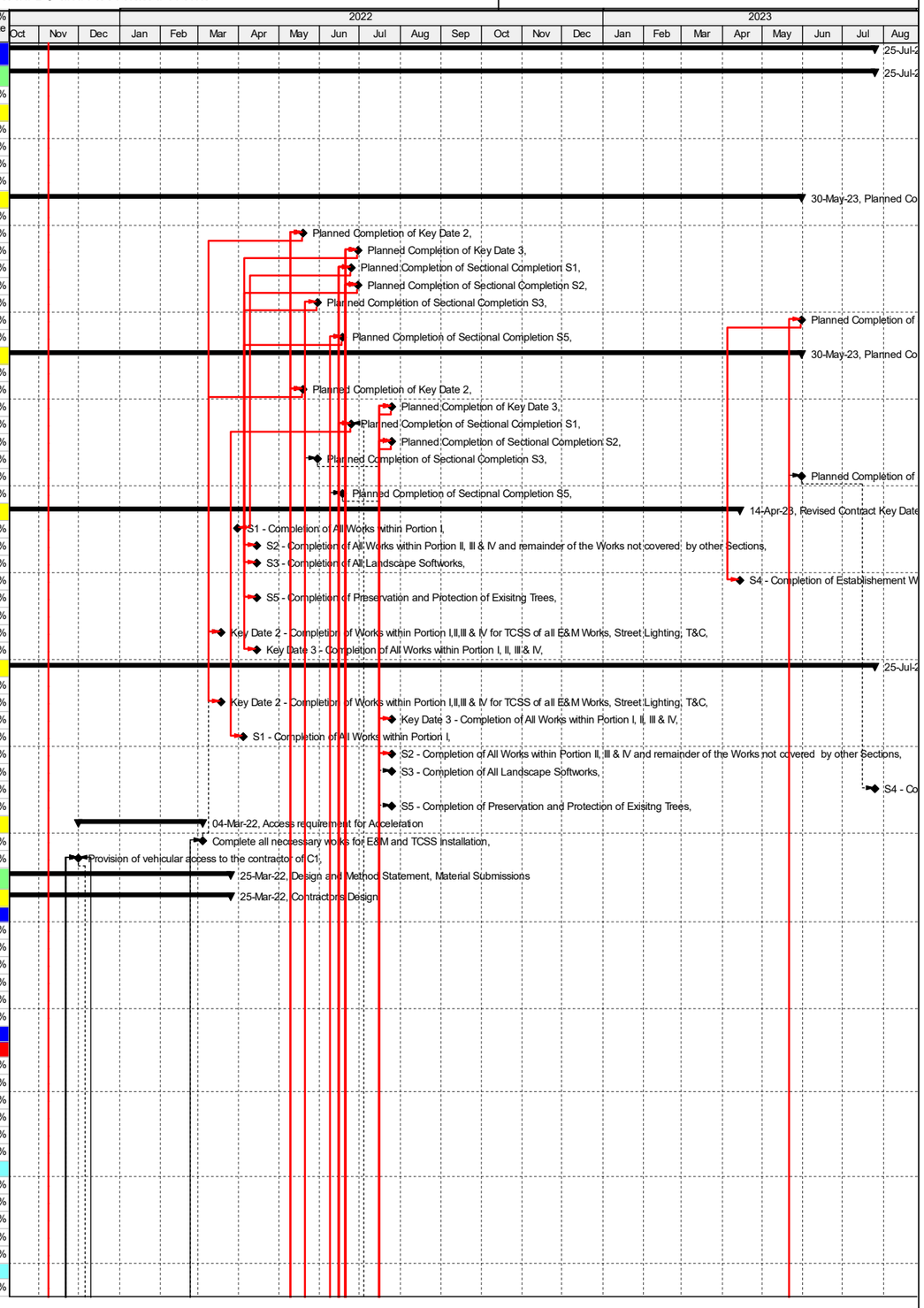
Remaining Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

Three Month Rolling Programme (February 2022 - May 2022)

Date	Revision	Checked	Approved
08-Feb-22	3MRP (Feb 22 - May 22)		

Contract 2

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
NE/2017/08 Programme Update (Nov 2021)		1399	899	504		31-Oct-18 A	25-Jul-23	19-Jul-21	30-Sep-23	58		
Project Key Dates		1399	488	484		31-Oct-18 A	25-Jul-23	27-Aug-21	30-Sep-23	58		
SD1000	Starting Date	0	0	0	017/08(7	31-Oct-18 A		27-Aug-21			0	100%
Access Dates		243	243	0	017/08(7	01-Nov-18 A	02-Jul-19 A	27-Aug-21	27-Aug-21			
POS1010	Possession of Portion I	0	0	0	017/08(7	02-Jul-19 A		27-Aug-21			0	100%
POS1020	Possession of Portion II	0	0	0	017/08(7	01-Nov-18 A		27-Aug-21			0	100%
POS1030	Possession of Portion III	0	0	0	017/08(7	01-Nov-18 A		27-Aug-21			0	100%
POS1040	Possession of Portion IV	0	0	0	017/08(7	01-Nov-18 A		27-Aug-21			0	100%
Planned Completion under Revised Contract Key Dates under CEs		1070	0	376	017/08(7	25-Jun-20 A	30-May-23	18-Mar-22	30-Sep-23	123		
PC1010	Planned Completion of Key Date 1	0	0	0	017/08(7		25-Jun-20		30-Sep-23		0	100%
PC1020	Planned Completion of Key Date 2	0	0	0	017/08(7		19-May-22		18-Mar-22	-62	0	0%
PC1030	Planned Completion of Key Date 3	0	0	0	017/08(7		29-Jun-22		14-Apr-22	-76	0	0%
PC1040	Planned Completion of Sectional Completion S1	0	0	0	017/08(7		24-Jun-22		30-Mar-22	-86	0	0%
PC1050	Planned Completion of Sectional Completion S2	0	0	0	017/08(7		29-Jun-22		14-Apr-22	-76	0	0%
PC1060	Planned Completion of Sectional Completion S3	0	0	0	017/08(7		30-May-22		14-Apr-22	-46	0	0%
PC1070	Planned Completion of Sectional Completion S4	0	0	0	017/08(7		30-May-23		14-Apr-23	-46	0	0%
PC1080	Planned Completion of Sectional Completion S5	0	0	0	017/08(7		18-Jun-22		14-Apr-22	-64	0	0%
Planned Completion under Possible Contract Key Dates under CEs		1070	0	376	017/08(7	25-Jun-20 A	30-May-23	18-Mar-22	30-Sep-23	123		
PCP1010	Planned Completion of Key Date 1	0	0	0	017/08(7		25-Jun-20		30-Sep-23		0	100%
PCP1020	Planned Completion of Key Date 2	0	0	0	017/08(7		19-May-22		18-Mar-22	-62	0	0%
PCP1030	Planned Completion of Key Date 3	0	0	0	017/08(7		25-Jul-22		25-Jul-22	-1	0	0%
PCP1040	Planned Completion of Sectional Completion S1	0	0	0	017/08(7		24-Jun-22		04-Apr-22	-82	0	0%
PCP1050	Planned Completion of Sectional Completion S2	0	0	0	017/08(7		25-Jul-22		25-Jul-22	-1	0	0%
PCP1060	Planned Completion of Sectional Completion S3	0	0	0	017/08(7		30-May-22		25-Jul-22	56	0	0%
PCP1070	Planned Completion of Sectional Completion S4	0	0	0	017/08(7		30-May-23		25-Jul-23	56	0	0%
PCP1080	Planned Completion of Sectional Completion S5	0	0	0	017/08(7		18-Jun-22		25-Jul-22	37	0	0%
Revised Contract Key Dates and Sectional Completion Dates under CEs		1024	0	392	017/08(7	25-Jun-20 A	14-Apr-23	18-Mar-22	30-Sep-23	169		
CD1010	S1 - Completion of All Works within Portion I	0	0	0	017/08(7		30-Mar-22*		30-Mar-22	0	0	0%
CD1020	S2 - Completion of All Works within Portion II, III & IV and remainder of the W	0	0	0	017/08(7		14-Apr-22*		14-Apr-22	0	0	0%
CD1030	S3 - Completion of All Landscape Softworks	0	0	0	017/08(7		14-Apr-22*		14-Apr-22	0	0	0%
CD1040	S4 - Completion of Establishement Works	0	0	0	017/08(7		14-Apr-23*		14-Apr-23	0	0	0%
CD1050	S5 - Completion of Preservation and Protection of Exisitng Trees	0	0	0	017/08(7		14-Apr-22*		14-Apr-22	0	0	0%
KD0001	Key Date 1 - Completion of Eastern Abutment in Portion II	0	0	0	017/08(7		25-Jun-20		30-Sep-23		0	100%
KD0002	Key Date 2 - Completion of Works within Portion I,II,III & IV for TCSS of all E&	0	0	0	017/08(7		18-Mar-22*		18-Mar-22	0	0	0%
KD0003	Key Date 3 - Completion of All Works within Portion I, II, III & IV	0	0	0	017/08(7		14-Apr-22*		14-Apr-22	0	0	0%
Possible Key Dates and Sectional Completion Dates under CEs		1126	0	494	017/08(7	25-Jun-20 A	25-Jul-23	18-Mar-22	30-Sep-23	68		
KDP0001	Key Date 1 - Completion of Eastern Abutment in Portion II	0	0	0	017/08(7		25-Jun-20		30-Sep-23		0	100%
KDP0002	Key Date 2 - Completion of Works within Portion I,II,III & IV for TCSS of all E&	0	0	0	017/08(7		18-Mar-22*		18-Mar-22	0	0	0%
KDP0003	Key Date 3 - Completion of All Works within Portion I, II, III & IV	0	0	0	017/08(7		25-Jul-22*		25-Jul-22	0	0	0%
SCP0001	S1 - Completion of All Works within Portion I	0	0	0	017/08(7		04-Apr-22*		04-Apr-22	0	0	0%
SCP0002	S2 - Completion of All Works within Portion II, III & IV and remainder of the W	0	0	0	017/08(7		25-Jul-22*		25-Jul-22	0	0	0%
SCP0003	S3 - Completion of All Landscape Softworks	0	0	0	017/08(7		25-Jul-22*		25-Jul-22	0	0	0%
SCP0004	S4 - Completion of Establishement Works	0	0	0	017/08(7		25-Jul-23*		25-Jul-23	0	0	0%
SCP0005	S5 - Completion of Preservation and Protection of Exisitng Trees	0	0	0	017/08(7		25-Jul-22*		25-Jul-22	0	0	0%
Access requirement for Acceleration		75	0	75		30-Nov-21	04-Mar-22	15-Dec-21	18-Mar-22	12		
HO1010	Complete all neccessary works for E&M and TCSS installation	0	0	0	017/08(7		04-Mar-22		18-Mar-22	14	0	0%
HO1020	Provision of vehicular access to the contractor of C1	0	0	0	017/08(6		30-Nov-21		15-Dec-21	13	0	0%
Design and Method Statement, Material Submissions		1242	1104	138	017/08(7	31-Oct-18 A	25-Mar-22	19-Jul-21	30-Sep-23	554		
Contractor's Design		1223	850	63	017/08(7	12-Jan-19 A	25-Mar-22	27-Aug-21	26-May-22	62		
AIP Submission		247	208	0	017/08(7	12-Jan-19 A	07-Aug-19	27-Aug-21	27-Aug-21			
AD1010	Alternative Designs - Prepare AIP Submission	14	33	0	017/08(7	12-Jan-19 A	13-Feb-19	27-Aug-21	27-Aug-21		0	100%
AD1020	Alternative Designs - Review and Comment of AIP by PM	21	19	0	017/08(7	14-Feb-19 A	04-Mar-19	27-Aug-21	27-Aug-21		0	100%
AD1110	Alternative Designs - Review and Comment of AIP by HyD	21	66	0	017/08(7	05-Mar-19 A	09-May-19	27-Aug-21	27-Aug-21		0	100%
AD1190	Alternative Designs - Prepare AIP Submission (Rev.A)	14	33	0	017/08(7	10-May-19 A	11-Jun-19	27-Aug-21	27-Aug-21		0	100%
AD1200	Alternative Designs - Review and Comment of AIP by PM	21	24	0	017/08(7	12-Jun-19 A	05-Jul-19	27-Aug-21	27-Aug-21		0	100%
AD1210	Alternative Designs - Review and Comment of AIP by HyD	21	33	0	017/08(7	06-Jul-19 A	07-Aug-19	27-Aug-21	27-Aug-21		0	100%
DDA Submission		381	392	0	017/08(7	29-Jan-19 A	24-Feb-20	27-Aug-21	27-Sep-21			
Elevated Deck and U-trough		220	200	0	017/08(7	29-Jan-19 A	16-Aug-19	27-Aug-21	27-Aug-21			
AD1030	Alternative Designs - Prepare DDA Submission to Relevant Authorities (Eleva	21	50	0	017/08(7	29-Jan-19 A	19-Mar-19	27-Aug-21	27-Aug-21		0	100%
AD1035	Alternative Designs - Review and Comment of DDA (Elevated Deck and U-tro	7	1	0	017/08(7	20-Mar-19 A	20-Mar-19	27-Aug-21	27-Aug-21		0	100%
AD1036	Alternative Designs - Prepare DDA Submission (Elevated Deck and U-trough	16	20	0	017/08(7	21-Mar-19 A	09-Apr-19	27-Aug-21	27-Aug-21		0	100%
AD1037	Alternative Designs - Review and Comment of DDA Submission (Rev.A)	7	1	0	017/08(7	09-Apr-19 A	09-Apr-19	27-Aug-21	27-Aug-21		0	100%
AD1038	Alternative Designs - Prepare DDA Submission (Elevated Deck and U-trough	14	9	0	017/08(7	10-Apr-19 A	18-Apr-19	27-Aug-21	27-Aug-21		0	100%
AD1039	Alternative Designs - Review and Acceptance of DDA Submission (Rev.B)	7	1	0	017/08(7	18-Apr-19 A	18-Apr-19	27-Aug-21	27-Aug-21		0	100%
Response to CEDD - Port Works		84	120	0	017/08(7	19-Apr-19 A	16-Aug-19	27-Aug-21	27-Aug-21			
AD1230	Alternative Designs - Review and Comment of DDA (ED and UT) (21D for CE	21	56	0	017/08(7	19-Apr-19 A	13-Jun-19	27-Aug-21	27-Aug-21		0	100%
AD1250	Alternative Designs - Prepare DDA Submission (ED & UT, Response to CEDI	21	11	0	017/08(7	14-Jun-19 A	24-Jun-19	27-Aug-21	27-Aug-21		0	100%
AD1270	Alternative Designs - Review and Comment of DDA (ED&UT, 21D from CEDI	21	25	0	017/08(7	25-Jun-19 A	19-Jul-19	27-Aug-21	27-Aug-21		0	100%
AD1300	Alternative Designs - Prepare DDA Submission (ED&UT, Reponse to CEDD)	21	6	0	017/08(7	20-Jul-19 A	25-Jul-19	27-Aug-21	27-Aug-21		0	100%
AD1310	Alternative Designs - Review and Acceptance of DDA (ED&UT, 21D from CEI	21	22	0	017/08(7	26-Jul-19 A	16-Aug-19	27-Aug-21	27-Aug-21		0	100%
Response to HyD - Bridges and Structure		113	104	0	017/08(7	19-Apr-19 A	31-Jul-19	27-Aug-21	27-Aug-21			
AD1040	Alternative Designs - Review and Comment of DDA (ED and UT) (21D for Hyl	21	22	0	017/08(7	19-Apr-19 A	10-May-19	27-Aug-21	27-Aug-21		0	100%



Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
◆ Milestone
summary

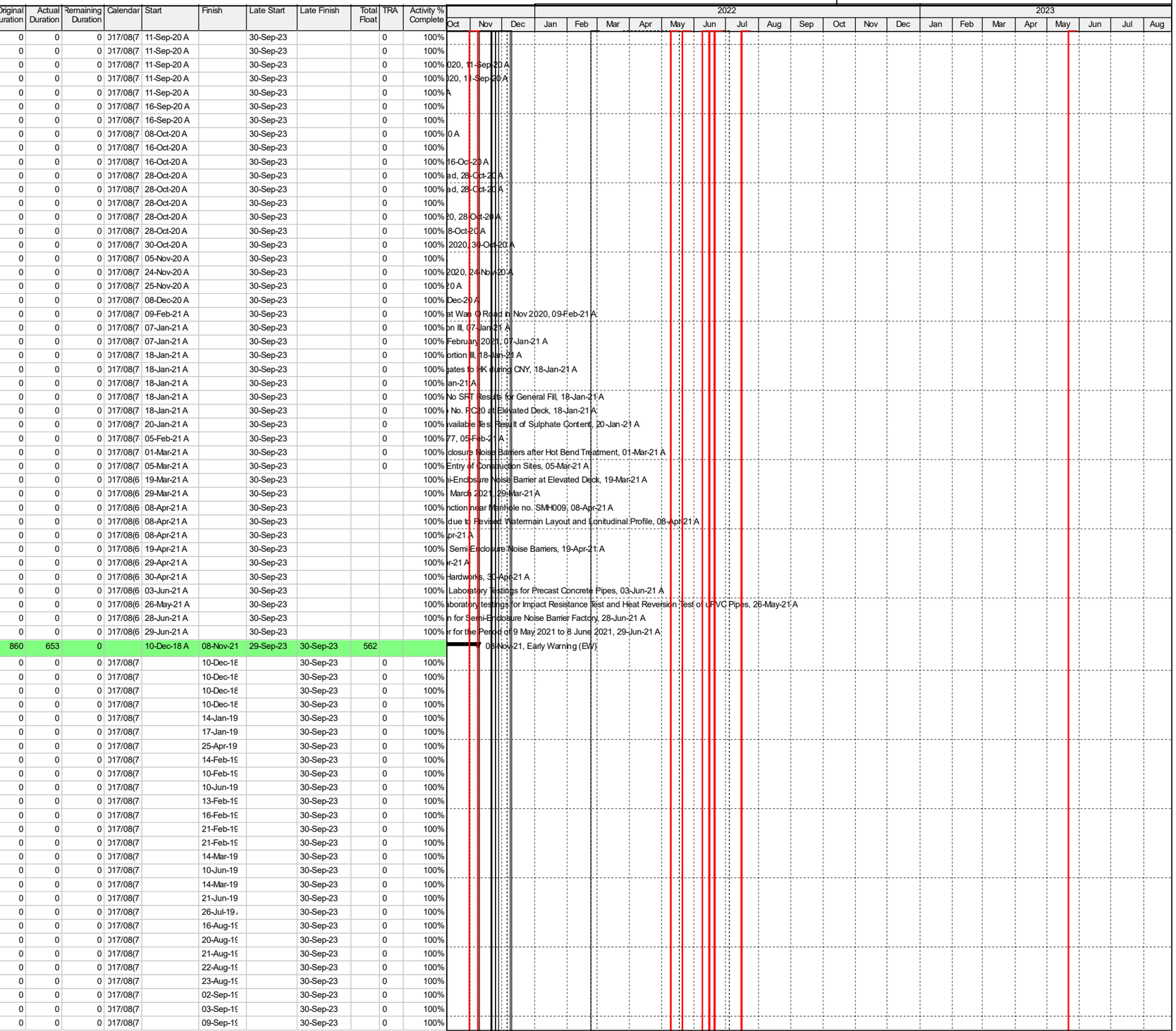
土木工程拓展署
Civil Engineering and Development Department

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthy Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
NCE130	NCE130 - Extra Length of PBSH at Portion I	0	0	0	017/08(7	11-Sep-20 A		30-Sep-23			0	100%
NCE131	NCE131 - Extra Length of PBSH at Portion III	0	0	0	017/08(7	11-Sep-20 A		30-Sep-23			0	100%
NCE132	NCE132 - Additional Works for Left-in Steel Casing for PBSH at Cycle Track I	0	0	0	017/08(7	11-Sep-20 A		30-Sep-23			0	100%
NCE133	NCE133 - Additional Works for Left-in Steel Casing for PBSH at Lift and Stai	0	0	0	017/08(7	11-Sep-20 A		30-Sep-23			0	100%
NCE134	NCE134 - Additional Works for Left-in Steel Casing for PBSH at Wan O Roac	0	0	0	017/08(7	11-Sep-20 A		30-Sep-23			0	100%
NCE135	NCE135 - Additional Point Load Test for Proof Drill Hole no. PC9,10-PD1	0	0	0	017/08(7	16-Sep-20 A		30-Sep-23			0	100%
NCE136	NCE136 - Inclement Weather for the Period of 9 July 2020 to 8 August 2020	0	0	0	017/08(7	16-Sep-20 A		30-Sep-23			0	100%
NCE137	NCE137 - Special Arrangement for Concrete Testing Services from the Publi	0	0	0	017/08(7	08-Oct-20 A		30-Sep-23			0	100%
NCE138	NCE138 - Inclement Weather for the Period of 9 August 2020 to 8 Septemb	0	0	0	017/08(7	16-Oct-20 A		30-Sep-23			0	100%
NCE139	NCE139 - Works affected by the Tropical Cyclone Warning Signal No. No. 8 '	0	0	0	017/08(7	16-Oct-20 A		30-Sep-23			0	100%
NCE140	NCE140 - Uncharted Steel Materials Found at Pre-Bored Socketed H-Pile No	0	0	0	017/08(7	28-Oct-20 A		30-Sep-23			0	100%
NCE141	NCE141 - Uncharted Steel Materials Found at Pre-Bored Socketed H-Pile No	0	0	0	017/08(7	28-Oct-20 A		30-Sep-23			0	100%
NCE142	NCE142 - Extra Length of Pre-Bored Socketed H-Piles at Lift and Staircase i	0	0	0	017/08(7	28-Oct-20 A		30-Sep-23			0	100%
NCE143	NCE143 - Additional Works for Left-in Steel Casing for 610mm PBSH at Lift a	0	0	0	017/08(7	28-Oct-20 A		30-Sep-23			0	100%
NCE144	NCE144 - Additional Works for Left-in Steel Casing for 610mm PBSH at War	0	0	0	017/08(7	28-Oct-20 A		30-Sep-23			0	100%
NCE145	NCE145 - Works affected by the Tropical Cyclone Warning Signal No. No. 8 '	0	0	0	017/08(7	30-Oct-20 A		30-Sep-23			0	100%
NCE146	NCE146 - Inclement Weather for the Period of 9 September 2020 to 8 Octol	0	0	0	017/08(7	05-Nov-20 A		30-Sep-23			0	100%
NCE148	NCE148 - Additional Works for Left-in Steel Casing for 610mm PBSH at War	0	0	0	017/08(7	24-Nov-20 A		30-Sep-23			0	100%
NCE149	NCE149 - Extra Length of Pre-Bored Socketed H-Piles at Wan O Road in Pc	0	0	0	017/08(7	25-Nov-20 A		30-Sep-23			0	100%
NCE150	NCE150 - Inclement Weather for the Period of 9 October 2020 to 8 Novemb	0	0	0	017/08(7	08-Dec-20 A		30-Sep-23			0	100%
NCE151	NCE151 - Additional Works for Left-in Steel Casing for 610mm PBSH at War	0	0	0	017/08(7	09-Feb-21 A		30-Sep-23			0	100%
NCE152	NCE152 - Unexpected Obstruction to Manhole no. SMH011 at Road D9 in P	0	0	0	017/08(7	07-Jan-21 A		30-Sep-23			0	100%
NCE153	NCE153 - Extra Works for Carry Out Laboratory Testings for Gully Formers up	0	0	0	017/08(7	07-Jan-21 A		30-Sep-23			0	100%
NCE154	NCE154 - Unexpected Obstruction to Manhole no. SMH012 at Road D9 in P	0	0	0	017/08(7	18-Jan-21 A		30-Sep-23			0	100%
NCE155	NCE155 - Works affected by COVID-19 - Additional Cost for Supply of Aggre	0	0	0	017/08(7	18-Jan-21 A		30-Sep-23			0	100%
NCE156	NCE156 - Movement Joint Construction at 2nd Portion of Abutment 2B	0	0	0	017/08(7	18-Jan-21 A		30-Sep-23			0	100%
NCE157	NCE157 - Delay in Backfilling Works along At-Grade Road due to Repeated	0	0	0	017/08(7	18-Jan-21 A		30-Sep-23			0	100%
NCE158	NCE158 - Conflict between Existing Manhole No. SMH4046896 and Pile Cap	0	0	0	017/08(7	18-Jan-21 A		30-Sep-23			0	100%
NCE159	NCE159 - Delay in Using Imported General Fill from ND/2018/01 Due to Una	0	0	0	017/08(7	20-Jan-21 A		30-Sep-23			0	100%
NCE160	NCE160 - Additional Point Load Test for Proof Drill Hole no. PD-1 at PC77	0	0	0	017/08(7	05-Feb-21 A		30-Sep-23			0	100%
NCE161	NCE161 - Additional Material Testing for Steel Works of Semi-Enclosure Nois	0	0	0	017/08(7	01-Mar-21 A		30-Sep-23			0	100%
NCE162	NCE162- Compulsory Valid Negative COVID-19 Test Result for Entry of Cons	0	0	0	017/08(7	05-Mar-21 A		30-Sep-23			0	100%
NCE163	NCE163 - Revision of Spacing of Movement Joints for Semi-Enclosure Noise	0	0	0	017/08(6	19-Mar-21 A		30-Sep-23				100%
NCE164	NCE164 - Inclement Weather Period of 9 Feb 2021 to 8 March 2021	0	0	0	017/08(6	29-Mar-21 A		30-Sep-23				100%
NCE165	NCE165 - Unexpected CLP Power Cables at XYZ Junction near Manhole no	0	0	0	017/08(6	08-Apr-21 A		30-Sep-23				100%
NCE166	NCE166 - Delay in Procurement of Watermain Pipes due to Revised Waterm	0	0	0	017/08(6	08-Apr-21 A		30-Sep-23				100%
NCE167	NCE167 - Ground Settlement Issue at Portion I	0	0	0	017/08(6	08-Apr-21 A		30-Sep-23				100%
NCE168	NCE168 - Additional Coating fo Sub-Frame of the Semi-Enclosure Noise Bar	0	0	0	017/08(6	19-Apr-21 A		30-Sep-23				100%
NCE169	NCE169 - Lighting works for Traffic Sign	0	0	0	017/08(6	29-Apr-21 A		30-Sep-23				100%
NCE170	NCE170 - Revised Landscape Softworks and Hardworks	0	0	0	017/08(6	30-Apr-21 A		30-Sep-23				100%
NCE171	NCE171 - Extra Works for Carry Out Laboratory Testings for Precast Concrete	0	0	0	017/08(6	03-Jun-21 A		30-Sep-23				100%
NCE172	NCE172 - Extra Works for Carry Out Laboratory testings for Impact Resistanc	0	0	0	017/08(6	26-May-21 A		30-Sep-23				100%
NCE173	NCE173 - Electric Suspension for Semi-Enclosure Noise Barrier Factory	0	0	0	017/08(6	28-Jun-21 A		30-Sep-23				100%
NCE174	NCE174 - Inclement Weather for the Period of 9 May 2021 to 8 June 2021	0	0	0	017/08(6	29-Jun-21 A		30-Sep-23				100%
Early Warning (EW)		860	653	0		10-Dec-18 A	08-Nov-21	29-Sep-23	30-Sep-23	562		
EW001	Temporary Discharges from LOHAS Park Development MTRC Contractors In	0	0	0	017/08(7		10-Dec-18		30-Sep-23		0	100%
EW002	Construction Debris and Domestic Waste Left Behind by MTRC's Contractors	0	0	0	017/08(7		10-Dec-18		30-Sep-23		0	100%
EW003	Maintenance of EVA at Portion II and III for MTRC's Depot along Road D9	0	0	0	017/08(7		10-Dec-18		30-Sep-23		0	100%
EW004	Diversion of Existing Fire Service Main along D9 Road upon Possession of P	0	0	0	017/08(7		10-Dec-18		30-Sep-23		0	100%
EW005	Severe Cracks and Abnormal Movement Observed on the Existing Road D9	0	0	0	017/08(7		14-Jan-19		30-Sep-23		0	100%
EW006	Uncharted Utilities (Hong Kong Broadband and CLP) identified at Road D9, '	0	0	0	017/08(7		17-Jan-19		30-Sep-23		0	100%
EW007	Additional Works for Determination of Bond Properety of Steel Reinforcing B	0	0	0	017/08(7		25-Apr-19		30-Sep-23		0	100%
EW008	Additional Works for Laying Concrete Blocks on Top of the Existing Seawall t	0	0	0	017/08(7		14-Feb-19		30-Sep-23		0	100%
EW009	Existing Public Lighting Columns Removal by Others	0	0	0	017/08(7		10-Feb-19		30-Sep-23		0	100%
EW010	Unexpeced CLP Cables Identified at Wan O Road	0	0	0	017/08(7		10-Jun-19		30-Sep-23		0	100%
EW012	Obstruction of Construction of Elevated Deck and U-Trough by Unexpected (	0	0	0	017/08(7		13-Feb-19		30-Sep-23		0	100%
EW014	Unregistered Tree No. A0001 found at Wan O Road and obstruct the UU div	0	0	0	017/08(7		16-Feb-19		30-Sep-23		0	100%
EW015	Constraints on TTA Scheme for Full Enclosure in Wan O Road	0	0	0	017/08(7		21-Feb-19		30-Sep-23		0	100%
EW016	Accumlation of Settlement Values with the Existing Data	0	0	0	017/08(7		21-Feb-19		30-Sep-23		0	100%
EW017	Additional Works for Disposal of Unsuitable Materials to NENT in Lieu of TKO	0	0	0	017/08(7		14-Mar-19		30-Sep-23		0	100%
EW018	Unexpected Traxcomm Cable Ducts at Portion I	0	0	0	017/08(7		10-Jun-19		30-Sep-23		0	100%
EW019	Obstruction of Construction of Elevated Deck and U-Trough by Unexpected (	0	0	0	017/08(7		14-Mar-19		30-Sep-23		0	100%
EW023	Extra Length of Bored Pile No. PL131, 132, 133, 107, 110, 113, 149, 152	0	0	0	017/08(7		21-Jun-19		30-Sep-23		0	100%
EW024	Unexpected WTT and HKT Ducts Identified at Wan O Road	0	0	0	017/08(7		26-Jul-19 A		30-Sep-23		0	100%
EW025	Uncertain Information of the Existing DN1800 drainage Pipe	0	0	0	017/08(7		16-Aug-19		30-Sep-23		0	100%
EW026	Delay in Response from HyD on Submission of Alternative Foundation desig	0	0	0	017/08(7		20-Aug-19		30-Sep-23		0	100%
EW027	Maintenance of EVA at Portion I for MTRC's Depot	0	0	0	017/08(7		21-Aug-19		30-Sep-23		0	100%
EW028	Unexpected Gas Main at Extent of Portion I	0	0	0	017/08(7		22-Aug-19		30-Sep-23		0	100%
EW029	Discrepancy of Finish Ground Level in Portion I	0	0	0	017/08(7		23-Aug-19		30-Sep-23		0	100%
EW030	Insufficiency of Information for Construction of Drainage works in U-Trough in	0	0	0	017/08(7		02-Sep-19		30-Sep-23		0	100%
EW031	Potential of Excessive Concrete Loss at Bored Piles No. PL132, PL133, P6,	0	0	0	017/08(7		03-Sep-19		30-Sep-23		0	100%
EW032	Extra Length of Pre-Bored Socketed H-Pile No. UP06, 11, 16, 21, 26, 31-38,	0	0	0	017/08(7		09-Sep-19		30-Sep-23		0	100%



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

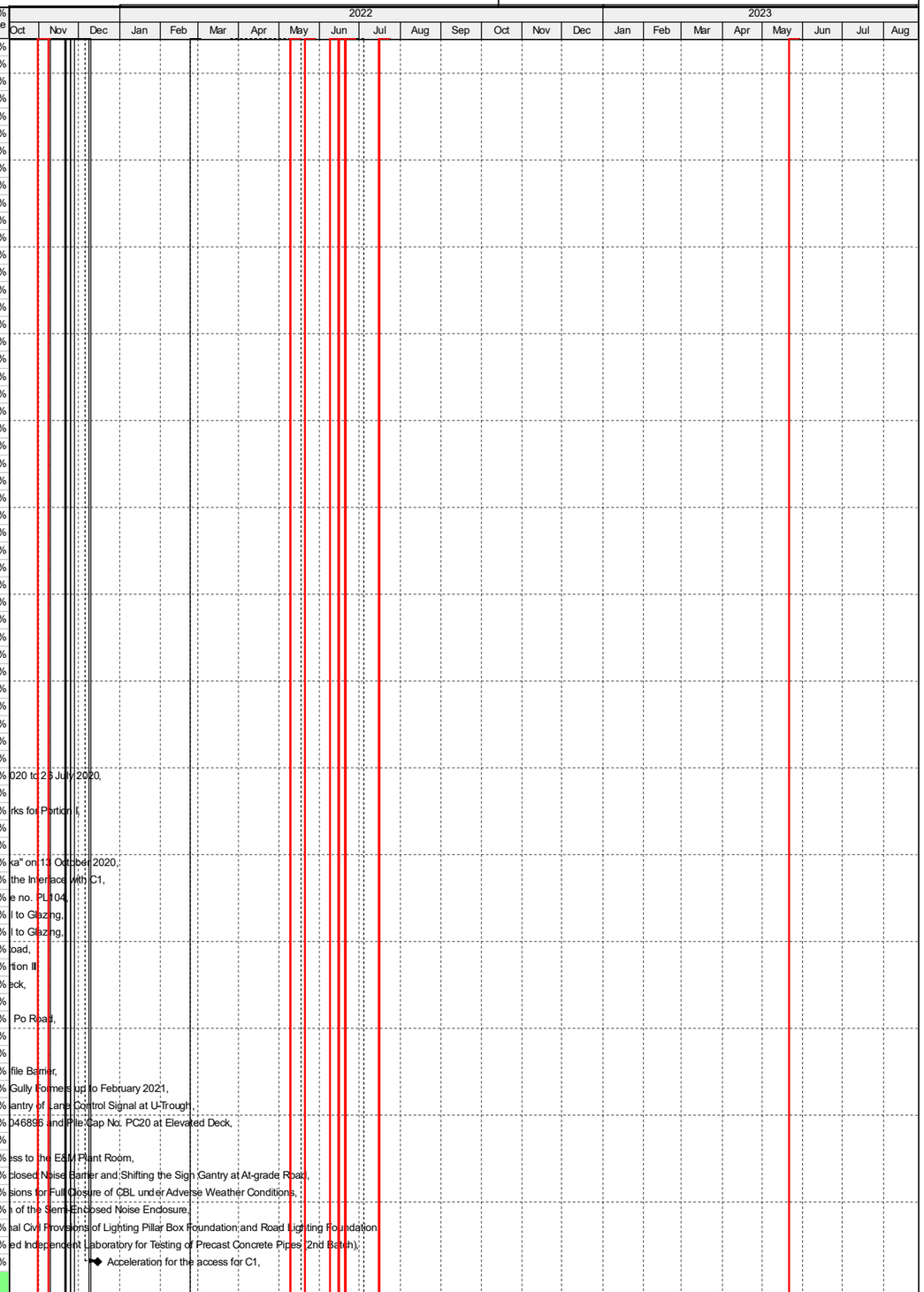
CEDD 土木工程拓展署 Civil Engineering and Development Department

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthy Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
PMI037	Request for Quotation - Additional Road Marking and Traffic Sign Poles	0	0	0	017/08(7		03-Jan-20		30-Sep-23		0	100%
PMI038	Request for Quotation - Works affected by Strike Event, Riots and Blockage	0	0	0	017/08(7		08-Feb-2(		30-Sep-23		0	100%
PMI039	Request for Quotation - Enhancement Measures for TTA at Wan Po Road	0	0	0	017/08(7		08-Feb-2(		30-Sep-23		0	100%
PMI040	Request for Quotation - Works affected by Spreading of Novel Coronavirus	0	0	0	017/08(7		13-Feb-2(		30-Sep-23		0	100%
PMI041	Request for Quotation - Extra Length of PBSH PC24-P1, PC25-P3, PC26-P	0	0	0	017/08(7		20-Feb-2(		30-Sep-23		0	100%
PMI042	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile No	0	0	0	017/08(7		20-Feb-2(		30-Sep-23		0	100%
PMI043	Provision of Additional Computer Equipment	0	0	0	017/08(7		26-Feb-2(		30-Sep-23		0	100%
PMI044	Request for Quotation - Revised Details of Type D Semi-enclosure Noise Bar	0	0	0	017/08(7		04-Mar-20		30-Sep-23		0	100%
PMI045	Request for Quotation - Revised Drainage Details at Eastbound of D9 Road	0	0	0	017/08(7		28-Feb-2(		30-Sep-23		0	100%
PMI046	Request for Quotation - Additional Works for Laying Concrete Blocks on Top	0	0	0	017/08(7		03-Mar-20		30-Sep-23		0	100%
PMI047	Laying of Cable Duct and Earthing Conductor at Portion III	0	0	0	017/08(7		10-Mar-20		30-Sep-23		0	100%
PMI048	Request for Quotation - Revised the Extent and Details of the Stem Wall for	0	0	0	017/08(7		13-Mar-20		30-Sep-23		0	100%
PMI049	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile	0	0	0	017/08(7		16-Mar-20		30-Sep-23		0	100%
PMI051	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile	0	0	0	017/08(7		22-Apr-20		30-Sep-23		0	100%
PMI052	Request for Quotation - Revised Drainage Details at Portion I and Western F	0	0	0	017/08(7		25-Apr-20		30-Sep-23		0	100%
PMI053	Request for Quotation - Uncharted Mass Concrete Conflict with Proposed PE	0	0	0	017/08(7		04-May-2(		30-Sep-23		0	100%
PMI054	Request for Quotation - Low Noise Road Surfacing	0	0	0	017/08(7		06-May-2(		30-Sep-23		0	100%
PMI055	Engaging a HOKLAS Laboratory for Impact Resistance Test and Heat Rever	0	0	0	017/08(7		06-May-2(		30-Sep-23		0	100%
PMI056	Request for Quotation - Additional E&M Facilities in the enclosed area under	0	0	0	017/08(7		07-May-2(		30-Sep-23		0	100%
PMI057	Request for Quotation - Extra Length of Pre-Bored Socketed H-Piles for Pile	0	0	0	017/08(7		20-May-2(		30-Sep-23		0	100%
PMI058	Request for Quotation - Extra Length of Pre-Bored Socketed H-Piles for Pile	0	0	0	017/08(7		20-May-2(		30-Sep-23		0	100%
PMI059	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile No. PC2	0	0	0	017/08(7		20-May-2(		30-Sep-23		0	100%
PMI060	Additional Material Testing & Concrete Coring	0	0	0	017/08(7		08-Jun-20		30-Sep-23		0	100%
PMI061	Request for Quotation - Revised Seawall Modification Works and Revision of	0	0	0	017/08(7		12-Jun-20		30-Sep-23		0	100%
PMI062	Point Load Test for Proof Drilling Works of Pre-bored Socketed H-pile No. PC	0	0	0	017/08(7		10-Jul-20,		30-Sep-23		0	100%
PMI063	Request for Quotation - Extra Length of Pre-Bored Socketed H-Piles	0	0	0	017/08(7		27-Jul-20,		30-Sep-23		0	100%
PMI064	Request for Quotation - Delay in PMMA Panel Production for Noise Barrier D	0	0	0	017/08(7		27-Jul-20,		30-Sep-23		0	100%
PMI065	Engaging an Independent HOKLAS Accredited Laboratory for Testing of Sta	0	0	0	017/08(7		10-Aug-2(		30-Sep-23		0	100%
PMI066	Request for Quotation - Details for Abutment 2B	0	0	0	017/08(7		18-Aug-2(		30-Sep-23		0	100%
PMI067	Request for Quotation - Revised Fresh Water Main Layout and Details	0	0	0	017/08(7		27-Aug-2(		30-Sep-23		0	100%
PMI068	Request for Quotation - Cancellation of Preservation and Protection of Existi	0	0	0	017/08(7		01-Sep-2(		30-Sep-23		0	100%
PMI069	Request for Quotation - Revised Power Cable Ducting Layout and Civil Provi	0	0	0	017/08(7		02-Sep-2(		30-Sep-23		0	100%
PMI070	Request for Quotation - Revised Details for Abutment 2A for the Installation c	0	0	0	017/08(7		10-Sep-2(		30-Sep-23		0	100%
PMI071	Request for Quotation - Revised of U-Trough structure and Abutment 2B	0	0	0	017/08(7		06-Oct-20		30-Sep-23		0	100%
PMI072	Request for Quotation - Additional Lightning Protection System for Semi-enc	0	0	0	017/08(7		16-Sep-2(		30-Sep-23		0	100%
PMI073	Removal of 5 nos. of Uncharted Trees at Wan O Road and Wan Po Road	0	0	0	017/08(7		16-Sep-2(		30-Sep-23		0	100%
PMI074	Request for Quotation - Extra Length of PBSH No. PC72-P1 and PC79-P1 a	0	0	0	017/08(7		17-Sep-2(		30-Sep-23		0	100%
PMI075	Request for Quotation - Extra Length of PBSH at Lift and Staircase in Portio	0	0	0	017/08(7		17-Sep-2(		30-Sep-23		0	100%
PMI076	Request for Quotation - Extra Length of PBSH at Elevated Cycle Track in Po	0	0	0	017/08(7		17-Sep-2(		30-Sep-23		0	100%
PMI077	Point Load Test for Proof Drill Hole no. PC9, 10-PD1	0	0	0	017/08(7		07-Oct-20		30-Sep-23		0	100%
PMI078	Request for Quotation - Revised Drainage Details near Abutment 2A	0	0	0	017/08(7		16-Oct-20		30-Sep-23		0	100%
PMI079	Request for Quotation - Tropical Cyclone Warning Signal No. 8 on 19 August	0	0	0	017/08(7		22-Oct-20		30-Sep-23		0	100%
PMI080	Engaging a HOKLAS Lab for Compression Tests of Concrete Cubes during	0	0	0	017/08(7		27-Oct-20		30-Sep-23		0	100% 020 to 25 July 2020,
PMI081	Revised Landscape Details at Wan O Road and Wan Po Road	0	0	0	017/08(7		27-Oct-20		30-Sep-23		0	100%
PMI082	Request for Quotation - Top Level of the Concrete Blocks for the Proposed \	0	0	0	017/08(7		04-Nov-2(		30-Sep-23		0	100% rks for Portion I,
PMI083	Request for Quotation - Extra Length of PBSH at Lift and Staircase in Portio	0	0	0	017/08(7		04-Nov-2(		30-Sep-23		0	100%
PMI084	Request for Quotation - Seawall Modification Works Along MTRCL Promenac	0	0	0	017/08(7		10-Nov-2(		30-Sep-23		0	100%
PMI085	Request for Quotation - Works affected by the Tropical Cyclone Warning Sig	0	0	0	017/08(7		13-Nov-2(		30-Sep-23		0	100% ka" on 15 October 2020,
PMI086	Request for Quotation - Revised the Type of Steel Vehicle Parapet and Tran	0	0	0	017/08(7		19-Nov-2(		30-Sep-23		0	100% the Interface with C1,
PMI087	Request for Quotation - Unexpected Rock Sample Retrieved from Interface (	0	0	0	017/08(7		24-Nov-2(		30-Sep-23		0	100% e no. PL104,
PMI088	Request for Quotation - Revised Design for Lift Internal Panels and Door fror	0	0	0	017/08(7		25-Nov-2(		30-Sep-23		0	100% l to Glazing,
PMI089	Request for Quotation - Revised Design for Lift Internal Panels and Door fror	0	0	0	017/08(7		25-Nov-2(		30-Sep-23		0	100% l to Glazing,
PMI090	Request for Quotation - Revised Drainage Details at Westbound of Road D9	0	0	0	017/08(7		02-Dec-2(		30-Sep-23		0	100% oad,
PMI091	Request for Quotation - Extra Length of Pre-Bored Socketed H-Pile at Wan (	0	0	0	017/08(7		04-Dec-2(		30-Sep-23		0	100% tion II
PMI092	Request for Quotation - Additional Footpath Pavement Underneath Elevatec	0	0	0	017/08(7		08-Jan-21		30-Sep-23		0	100% ck,
PMI093	Request for Quotation - Revision of M.J. Detail	0	0	0	017/08(7		11-Jan-21		30-Sep-23		0	100%
PMI094	Removal of Uncharted Tree Nos. A0006 and A0008 at Wan O Road and Wa	0	0	0	017/08(7		14-Jan-21		30-Sep-23		0	100% Po Road,
PMI095	Request for Quotation - Revision of Interface Structure and Associated Detai	0	0	0	017/08(7		15-Jan-21		30-Sep-23		0	100%
PMI096	Request for Quotation - Clarification of Detail for Wall Opening	0	0	0	017/08(7		28-Jan-21		30-Sep-23		0	100%
PMI097	Request for Quotation - Revision of the Extent and Detail of Concrete Profile	0	0	0	017/08(7		28-Jan-21		30-Sep-23		0	100% file Barrier,
PMI098	Engaging a HOKLAS Accredited Independent Laboratory for Testing of Gully,	0	0	0	017/08(7		03-Feb-21		30-Sep-23		0	100% Gully Formeis up to February 2021,
PMI099	Additional R.C. Corbel and Structural Steelwork Connection for Sign Gantry (	0	0	0	017/08(7		09-Feb-21		30-Sep-23		0	100% antry of Lane Control Signal at U-Trough,
PMI100	Request for Quotation - Conflict between Existing Manhole No. SMH404689	0	0	0	017/08(7		10-Feb-21		30-Sep-23		0	100% 046896 and Pile Cap No. PC20 at Elevated Deck,
PMI101	Point Load Test for Proof Drill Hole no. PD-1 at PC77	0	0	0	017/08(7		25-Feb-21		30-Sep-23		0	100%
PMI102	Provision of Temporary Concrete Pavement at the Access to the E&M Plant	0	0	0	017/08(7		31-Mar-21		30-Sep-23			100% ss to the E&M Plant Room,
PMI103	Request for Quotation - Update Details of Semi-Enclosed Noise Barrier and :	0	0	0	017/08(7		13-Apr-21		30-Sep-23			100% closed Noise Barrier and Shifting the Sign Gantry at At-grade Road,
PMI104	Request for Quotation - Additional TCSS Civil Provisions for Full Closure of C	0	0	0	017/08(7		14-Apr-21		30-Sep-23			100% sions for Full Closure of CBL under Adverse Weather Conditions,
PMI105	Risk Assessment for Lightning Protection System of the Semi-Enclosed Nois	0	0	0	017/08(7		22-Apr-21		30-Sep-23			100% n of the Semi-Enclosed Noise Enclosure,
PMI106	Request for Quotation - Additional Civil Provisions of Lighting Pillar Box Foun	0	0	0	017/08(7		18-Jun-21		30-Sep-23			100% al Civil Provisions of Lighting Pillar Box Foundation and Road Lighting Foundation
PMI107	Engaging a HOKLAS Accredited Independent Laboratory for Testing of Prec	0	0	0	017/08(7		24-Jun-21		30-Sep-23			100% ed Independent Laboratory for Testing of Precast Concrete Pipes (2nd Batch),
PMI113	Acceleration for the access for C1	0	0	0	017/08(6		15-Dec-21		15-Dec-21	0		0% ◆ Acceleration for the access for C1,
Request for Information (RFI)		125	125	0		24-Dec-18 A	31-May-19	27-Aug-21	27-Aug-21			



Actual Level of Effort
Actual Work
Remaining Work
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◆ Milestone
summary

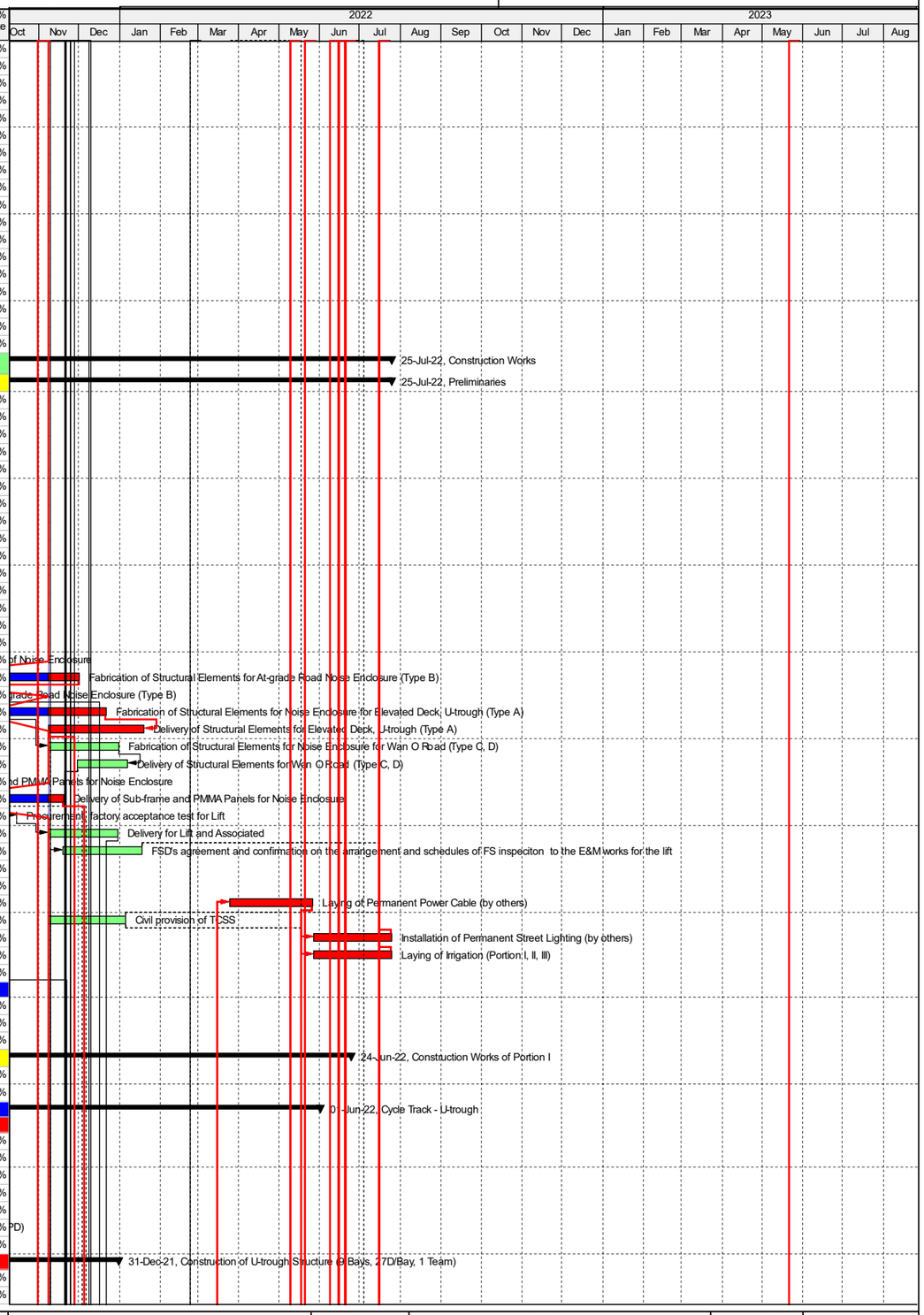
土木工程拓展署
Civil Engineering and Development Department

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthy Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
RFI001.SUB	Submission of RFI001 - Discrepancy between the Seawall Finished Ground l	0	0	0	017/08(7	24-Dec-18 A		27-Aug-21			0	100%
RFI001REP	Reply on RFI001 - Discrepancy between the Seawall Finished Ground Level	0	0	0	017/08(7		14-Mar-19		27-Aug-21		0	100%
RFI002.SUB	Submission of RFI002 - Top Level of Pile Cap for the Elevated Section	0	0	0	017/08(7	24-Dec-18 A		27-Aug-21			0	100%
RFI002.SUB10	Reply on RFI002 - Top Level of Pile Cap for the Elevated Section	0	0	0	017/08(6		14-Mar-19		27-Aug-21		0	100%
RFI006.SUB	Submission of RFI006 - Confirmation of Top Level of Pile Caps and Pile Cap	0	0	0	017/08(7	24-Jan-19 A		27-Aug-21			0	100%
RFI006REP	Reply on RFI006 - Confirmation of Top Level of Pile Caps and Pile Caps of A	0	0	0	017/08(7		07-Mar-19		27-Aug-21		0	100%
RFI010.SUB	Submission of RFI010 - Confirmation of Top Level of Pile Caps at Lift Shaft	0	0	0	017/08(7	01-Feb-19 A		27-Aug-21			0	100%
RFI010REP	Reply on RFI010 - Confirmation of Top Level of Pile Cpas at Lift Shaft	0	0	0	017/08(7		04-Mar-19		27-Aug-21		0	100%
RFI011.SUB	Submission of RFI011 - Confirmation of Top Level of Pile Caps at Cycle Ram	0	0	0	017/08(7	04-Feb-19 A		27-Aug-21			0	100%
RFI011REP	Reply on RFI011 - Confirmation of Top Level of Pile Caps at Cycle Ramp	0	0	0	017/08(7		04-Mar-19		27-Aug-21		0	100%
RFI012.SUB	Submission of RFI012 - Confirmation of Top Level of Pile Caps at At-Grade F	0	0	0	017/08(7	04-Feb-19 A		27-Aug-21			0	100%
RFI012REP	Reply on RFI012 - Confirmation of Top Level of Pile Caps at At-Grade Road	0	0	0	017/08(7		04-Mar-19		27-Aug-21		0	100%
RFI013.SUB	Submission of RFI013 - Grid Line Origin	0	0	0	017/08(7	08-Feb-19 A		27-Aug-21			0	100%
RFI013REP	Reply on RFI013 - Grid Line Origin	0	0	0	017/08(7		03-Mar-19		27-Aug-21		0	100%
RFI016.SUB	Submission of RFI016 - Unexpected Tree at Wan O Road	0	0	0	017/08(7	16-Feb-19 A		27-Aug-21			0	100%
RFI016REP	Reply on RFI016 - Unexpected Tree at Wan O Road	0	0	0	017/08(7		13-Mar-19		27-Aug-21		0	100%
RFI025.SUB	Submission of RFI025 - Cycle Track Ramp Portion Ground Level	0	0	0	017/08(7	06-May-19 A		27-Aug-21			0	100%
RFI025REP	Reply on RFI025 - Cycle Track Ramp Portion Ground Level	0	0	0	017/08(7		31-May-19		27-Aug-21		0	100%
Construction Works		1093	888	209		13-Nov-18 A	25-Jul-22	18-Aug-21	30-Sep-23	353		
Preliminaries		1093	884	209		13-Nov-18 A	25-Jul-22	27-Aug-21	30-Sep-23	353		
PREL1010	1st Independent Safety Audit Scheme Audit	2	2	0	017/08(6	14-Dec-18 A	15-Dec-18	30-Sep-23	30-Sep-23		0	100%
PREL1015	Initial Survey	7	7	0	017/08(6	13-Nov-18 A	20-Nov-18	27-Aug-21	27-Aug-21		0	100%
PREL1017	Initial Hydrographic Survey	7	7	0	017/08(6	21-Nov-18 A	28-Nov-18	27-Aug-21	27-Aug-21		0	100%
PREL1020	Tree Survey	7	7	0	017/08(6	27-Nov-18 A	04-Dec-18	27-Aug-21	27-Aug-21		0	100%
PREL1030	Utilities Detection and Trial Pit at MTRC's Development Area	37	24	0	017/08(6	17-Jan-19 A	16-Feb-19	30-Sep-23	30-Sep-23		0	100%
PREL1035	Installation of Utilities/ Ground Settlement Monitoring Points at MTRC's Devel	28	28	0	017/08(6	12-Jan-19 A	16-Feb-19	30-Sep-23	30-Sep-23		0	100%
PREL1037	Installation of Ground Settlement Monitoring Points at MTRC Development F	20	17	0	017/08(6	23-Feb-19 A	14-Mar-19	30-Sep-23	30-Sep-23		0	100%
PREL1040	Erection of Contractor Site Office	74	76	0	017/08(6	14-Jan-19 A	16-Apr-19	30-Sep-23	30-Sep-23		0	100%
PREL1050	General Site Clearance (Tree Felling, Formation of Tempoary Working Acces	26	36	0	017/08(6	02-Jan-19 A	15-Feb-19	27-Aug-21	27-Aug-21		0	100%
PREL1070	Erection of Chain Link Fence and Gates at MTRC's Development Area	30	30	0	017/08(6	27-Dec-18 A	31-Jan-19	27-Aug-21	27-Aug-21		0	100%
PREL1100	Pre-Construction Condition Survey	15	15	0	017/08(6	28-Nov-18 A	14-Dec-18	30-Sep-23	30-Sep-23		0	100%
PREL1110	Installation of Monitoring on Exisiting Structure/ Buildings/Utilities	28	28	0	017/08(6	12-Jan-19 A	16-Feb-19	30-Sep-23	30-Sep-23		0	100%
PREL1115	Construction of Temporary Wheel Washing Facilities	6	6	0	017/08(7	18-Mar-19 A	23-Mar-19	30-Sep-23	30-Sep-23		0	100%
PREL1120	Construction of Wheel Washing System (CE005, 007, 009)	22	42	0	017/08(6	26-Apr-19 A	17-Jun-19	30-Sep-23	30-Sep-23		0	100%
PREL1130-01	Late Delivery of Steel Material for Fabrication of Structural Members at Pre-fa	60	154	0	017/08(7	29-Jan-20 A	30-Jun-20	23-Sep-21	23-Sep-21		0	100%
PREL1130-02	Sample Selection and Testing for Structural Steels for Pre-fabrication of Nois	33	185	0	017/08(6	02-Jul-20 A	10-Feb-21	23-Sep-21	23-Sep-21		0	100%
PREL1130-12	Fabrication of Structural Elements for At-grade Road Noise Enclosure (Type	90	204	21	017/08(6	02-Mar-21 A	01-Dec-21	28-Oct-21	20-Nov-21	-9	0	76.67%
PREL1130-22	Delivery of Structural Elements for At-grade Road Noise Enclosure (Type B)	60	60	0	017/08(6	13-Mar-21 A	28-May-21	10-Jan-22	10-Jan-22		0	100%
PREL1130-32	Fabrication of Structural Elements for Noise Enclosure for Elevated Deck, U-t	90	51	38	017/08(6	06-Sep-21 A	21-Dec-21	18-Oct-21	30-Nov-21	-18	0	57.78%
PREL1130-42	Delivery of Structural Elements for Elevated Deck, U-trough (Type A)	60	0	60	017/08(6	08-Nov-21	19-Jan-22	24-Sep-21	04-Dec-21	-36	0	0%
PREL1130-52	Fabrication of Structural Elements for Noise Enclosure for Wan O Road (Type	45	0	45	017/08(6	08-Nov-21	31-Dec-21	10-Dec-21	08-Feb-22	29		0%
PREL1130-62	Delivery of Structural Elements for Wan O Road (Type C, D)	30	0	30	017/08(6	30-Nov-21	06-Jan-22	05-Jan-22	12-Feb-22	29		0%
PREL1140-01	Fabrication of Sub-frame and PMMA Panels for Noise Enclosure	60	60	0	017/08(6	20-Apr-21 A	02-Jul-21	23-Sep-21	23-Sep-21		0	100%
PREL1140-21	Delivery of Sub-frame and PMMA Panels for Noise Enclosure	30	121	11	017/08(6	15-Jun-21 A	19-Nov-21	23-Sep-21	06-Oct-21	-37	0	63.33%
PREL1150-00	Procurement, factory acceptance test for Lift	60	0	0	017/08(6	15-Oct-21 A	15-Oct-21	20-Nov-21	20-Nov-21		0	100%
PREL1150-01	Delivery for Lift and Associated	44	0	44	017/08(6	08-Nov-21*	30-Dec-21	20-Nov-21	13-Jan-22	11	0	0%
PREL1160	FSD's agreement and confirmation on the arrangement and schedules of FS	48	0	48	017/08(6	19-Nov-21	17-Jan-22	17-Feb-22	14-Apr-22	71	0	0%
PREL1170	Environmental baseline monitoring (by others)	48	48	0	017/08(6	17-Dec-18 A	16-Feb-19	30-Sep-23	30-Sep-23		0	100%
PREL1180	Removal of Exisitng Lighting Columns (by others)	3	3	0	017/08(6	09-Apr-19 A	11-Apr-19	27-Aug-21	27-Aug-21		0	100%
PREL1190	Laying of Permanent Power Cable (by others)	48	0	48	017/08(6	25-Mar-22	26-May-22	24-Mar-22	26-May-22	-1	0	0%
PREL1220	Civil provision of TCSS	48	0	48	017/08(6	08-Nov-21	05-Jan-22	19-Jan-22	18-Mar-22	59	0	0%
PREL1230	Installation of Permanent Street Lighting (by others)	49	0	49	017/08(6	27-May-22	25-Jul-22	26-May-22	25-Jul-22	-1	0	0%
PREL1240	Laying of Irrigation (Portion I, II, III)	49	0	49	017/08(6	27-May-22	25-Jul-22	26-May-22	25-Jul-22	-1	0	0%
PREL1250	Procurement, Factory Accpetance Test and Delivery of Bearing	80	365	0	017/08(7	14-Jan-20 A	13-Jan-21	02-Sep-21	02-Sep-21		0	100%
Ground Investigation		30	23	0	017/08(6	13-Jun-19 A	10-Jul-19	27-Aug-21	27-Aug-21			
GI1010	Ground Investigation Borehole (NEBH1) (Rg4) (10D/hole+5D TRA)	15	8	0	017/08(6	02-Jul-19 A	10-Jul-19	27-Aug-21	27-Aug-21		5	100%
GI1020	Ground Investigation Borehole (NEBH2) (Rg1) (10D/hole+5D TRA)	15	9	0	017/08(6	13-Jun-19 A	22-Jun-19	27-Aug-21	27-Aug-21		5	100%
GI1030	Ground Investigation Borehole (NEBH3) (Rg1) (10D/hole+5D TRA)	15	8	0	017/08(6	24-Jun-19 A	03-Jul-19	27-Aug-21	27-Aug-21		5	100%
Construction Works of Portion I		866	700	184		02-Jul-19 A	24-Jun-22	18-Aug-21	30-Sep-23	378		
PORI.A1000	Provide Access to MTRC P10 at Elevated Cycle Track Area	274	274	0	017/08(7	02-Jul-19 A	31-Mar-20	27-Aug-21	27-Aug-21		0	100%
PORI.A1010	Provide Access to MTRC P10 at U-trough Section	214	188	0	017/08(7	01-Apr-20 A	05-Oct-20	09-Sep-21	09-Sep-21		0	100%
Cycle Track - U-trough		821	659	165		19-Aug-19 A	01-Jun-22	09-Sep-21	14-Apr-22	-36		
Excavation to U-tough Level(+5.0mPD to +4.4mPD) (700m3)		446	398	0		19-Aug-19 A	17-Dec-20	09-Sep-21	09-Sep-21			
PORI.UT.EX1010	Excavation to U-trough Founding Level for Construction of Bay 6-9 (+5.0mPI	5	3	0	017/08(6	19-Aug-19 A	21-Aug-19	09-Sep-21	09-Sep-21		0	100%
PORI.UT.EX1020	Plate Load Test	7	5	0	017/08(7	22-Aug-19 A	26-Aug-19	09-Sep-21	09-Sep-21		0	100%
PORI.UT.EX1030	Excavation to U-trough Founding Level for Construction of Bay 3-5 (+5.0mPI	10	13	0	017/08(6	09-Mar-20 A	23-Mar-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.EX1040	Liaision with Towngas and TranxComm and Utilities Diversion for Bay 3 (EW(	60	235	0	017/08(6	17-Jan-20 A	02-Nov-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.EX1050	Excavation to U-trough Founding Level for Construction of Bay 2 (+5.0mPD	4	5	0	017/08(6	19-Nov-20 A	24-Nov-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.EX1055	Excavation to U-trough Founding Level for Construction of Bay 1 (+5.0mPD	4	5	0	017/08(6	12-Dec-20 A	17-Dec-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.EX1060	Utilities Diversion for Bay 1-2	30	22	0	017/08(6	21-Sep-20 A	17-Oct-20	09-Sep-21	09-Sep-21		0	100%
Construction of U-trough Structure (9 Bays, 27D/Bay, 1 Team)		697	556	45	017/08(6	27-Aug-19 A	31-Dec-21	09-Sep-21	03-Nov-21	-48		
PORI.UT.ST1000	Construction of Blinding Layer for Bay 6-9	2	4	0	017/08(6	27-Aug-19 A	30-Aug-19	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1010	Construction of U-trough Structure Bay 6-9 Base Slab (14D/bay, 1 team)	56	34	0	017/08(6	27-Aug-19 A	08-Oct-19	09-Sep-21	09-Sep-21		0	100%



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

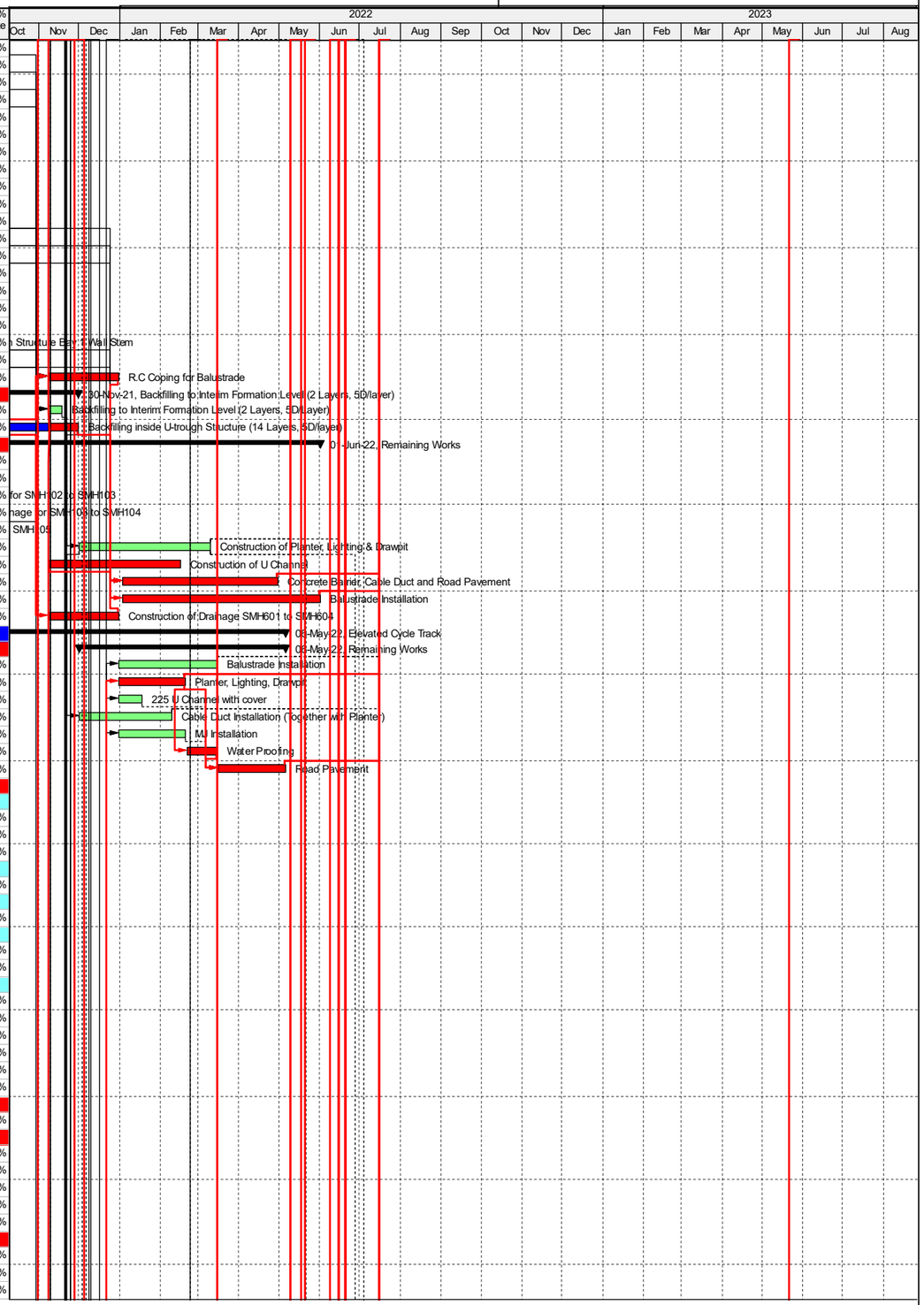
CEDD 土木工程拓展署 Civil Engineering and Development Department

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthy Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
PORI.UT.ST1010-01	Construction of U-trough Structure Bay 9 Wall Stem	14	10	0	017/08/(6	06-Mar-20 A	17-Mar-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1010-02	Construction of U-trough Structure Bay 8 Wall Stem	14	33	0	017/08/(6	19-Mar-20 A	02-May-2(	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1010-03	Construction of U-trough Structure Bay 7 Wall Stem	14	10	0	017/08/(6	06-Mar-20 A	17-Mar-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1010-13	Construction of U-trough Structure Bay 6 Wall Stem	14	28	0	017/08/(6	11-Apr-20 A	18-May-2(	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1020	Access Road Modification to Seaside	14	9	0	017/08/(6	27-Feb-20 A	07-Mar-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1030	Construction of Blinding Layer for Bay 4-5	2	1	0	017/08/(6	24-Mar-20 A	24-Mar-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1040-01	Construction of U-trough Structure Bay 5 Base Slab	14	12	0	017/08/(6	25-Mar-20 A	08-Apr-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1040-11	Construction of U-trough Structure Bay 4 Base Slab	14	25	0	017/08/(6	28-Mar-20 A	02-May-2(	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1040-15	Construction of Blinding Layer for Bay 3	4	2	0	017/08/(6	03-Nov-20 A	04-Nov-2(	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1040-21	Construction of U-trough Structure Bay 3 Base Slab	14	12	0	017/08/(6	11-Nov-20 A	24-Nov-2(	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1040-31	Construction of U-trough Structure Bay 5 Wall Stem	14	16	0	017/08/(6	27-Jul-20 A	13-Aug-2(	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1040-41	Construction of U-trough Structure Bay 4 Wall Stem	14	28	0	017/08/(6	22-Jun-20 A	25-Jul-20 A	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1040-51	Construction of U-trough Structure Bay 3 Wall Stem	14	14	0	017/08/(6	18-Feb-21 A	05-Mar-21	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1060	Construction of Blinding Layer for Bay 2	2	1	0	017/08/(6	25-Nov-20 A	25-Nov-2(	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1065	Construction of Blinding Layer for Bay 1	2	1	0	017/08/(6	18-Dec-20 A	18-Dec-2(	09-Sep-21	09-Sep-21			100%
PORI.UT.ST1070	Construction of U-trough Structure Bay 2 Base Slab	14	14	0	017/08/(6	26-Nov-20 A	11-Dec-20	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1070-01	Construction of U-trough Structure Bay 1 Base Slab	14	10	0	017/08/(6	21-Dec-20 A	04-Jan-21	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1070-02	Construction of U-trough Structure Bay 1 Wall Stem	14	109	0	017/08/(6	01-Mar-21 A	15-Jul-21 A	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1070-12	Construction of U-trough Structure Bay 2 Wall Stem	14	36	0	017/08/(6	18-Dec-20 A	01-Feb-21	09-Sep-21	09-Sep-21		0	100%
PORI.UT.ST1070-42	R.C Coping for Balustrade	45	0	45	017/08/(6	08-Nov-21	31-Dec-21	09-Sep-21	03-Nov-21	-48		0%
Backfilling to Interim Formation Level (2 Layers, 5D/layer)		70	55	20	017/08/(6	01-Sep-21 A	30-Nov-21	09-Sep-21	08-Dec-21	7		
PORI.UT.BF1010	Backfilling to Interim Formation Level (2 Layers, 5D/Layer)	10	0	10	017/08/(6	08-Nov-21	18-Nov-21	26-Nov-21	08-Dec-21	17	0	0%
PORI.UT.BF1020	Backfilling inside U-trough Structure (14 Layers, 5D/layer)	70	55	20	017/08/(6	01-Sep-21 A	30-Nov-21	09-Sep-21	04-Oct-21	-48	0	71.43%
Remaining Works		503	253	165	017/08/(6	16-Sep-20 A	01-Jun-22	26-Oct-21	14-Apr-22	-36		
PORI.UT.1050	Construction of Drainage for SMH101 to SMH102	35	16	0	017/08/(6	16-Sep-20 A	06-Oct-20	26-Nov-21	26-Nov-21		0	100%
PORI.UT.1055	Review and Acceptance of Design for ELS for Drainage	30	30	0	017/08/(6	08-Oct-20 A	12-Nov-2(	26-Nov-21	26-Nov-21			100%
PORI.UT.1060	Construction of Drainage for SMH102 to SMH103	35	50	0	017/08/(6	08-May-21 A	09-Jul-21 A	26-Nov-21	26-Nov-21		0	100%
PORI.UT.1070	Construction of Drainage for SMH103 to SMH104	35	31	0	017/08/(6	21-Jun-21 A	28-Jul-21 A	26-Nov-21	26-Nov-21		0	100%
PORI.UT.1080	Construction of Drainage for SMH104 to SMH105	35	15	0	017/08/(6	03-May-21 A	21-May-21	26-Nov-21	26-Nov-21		0	100%
PORI.UT.1090.00	Construction of Planter, Lighting & Drawpit	80	0	80	017/08/(6	01-Dec-21	10-Mar-22	08-Dec-21	18-Mar-22	7	0	0%
PORI.UT.1090.01	Construction of U Channel	80	0	80	017/08/(6	08-Nov-21	15-Feb-22	06-Nov-21	14-Feb-22	-1		0%
PORI.UT.1090.02	Concrete Barrier, Cable Duct and Road Pavement	95	0	95	017/08/(6	03-Jan-22	30-Apr-22	17-Dec-21	14-Apr-22	-11		0%
PORI.UT.1090.12	Balustrade Installation	120	0	120	017/08/(6	03-Jan-22	01-Jun-22	04-Nov-21	30-Mar-22	-48		0%
PORI.UT.1110.10	Construction of Drainage SMH601 to SMH604	45	0	45	017/08/(6	08-Nov-21	31-Dec-21	26-Oct-21	16-Dec-21	-11		0%
Elevated Cycle Track		826	682	144	017/08/(6	23-Jul-19 A	06-May-22	27-Aug-21	30-Sep-23	418		
Remaining Works		124	0	124	017/08/(6	01-Dec-21	06-May-22	11-Dec-21	14-Apr-22	-15		
PORI.ED.MISC.1010	Balustrade Installation	60	0	60	017/08/(6	31-Dec-21	15-Mar-22	31-Jan-22	14-Apr-22	25		0%
PORI.ED.MISC.1020	Planter, Lighting, Drawpit	40	0	40	017/08/(6	31-Dec-21	19-Feb-22	11-Dec-21	29-Jan-22	-15		0%
PORI.ED.MISC.1030	225 U Channel with cover	14	0	14	017/08/(6	31-Dec-21	17-Jan-22	10-Feb-22	25-Feb-22	31		0%
PORI.ED.MISC.1040	Cable Duct Installation (Together with Planter)	55	0	55	017/08/(6	01-Dec-21	09-Feb-22	10-Jan-22	18-Mar-22	32		0%
PORI.ED.MISC.1050	MJ Installation	40	0	40	017/08/(6	31-Dec-21	19-Feb-22	07-Jan-22	25-Feb-22	5		0%
PORI.ED.MISC.1060	Water Proofing	20	0	20	017/08/(6	21-Feb-22	15-Mar-22	31-Jan-22	25-Feb-22	-15		0%
PORI.ED.MISC.1070	Road Pavement	40	0	40	017/08/(6	16-Mar-22	06-May-22	26-Feb-22	14-Apr-22	-15		0%
Predrilling Works for Alternative PBSH at MTRC Development Zone (10nos, 10D/pile+5D TRA, 1 to 4rig		240	232	0	017/08/(6	23-Jul-19 A	05-May-2(	27-Aug-21	30-Sep-23			
Rig 2		128	120	0	017/08/(6	04-Dec-19 A	05-May-2(	27-Aug-21	27-Aug-21			
PORI.ED.PD1070	Predrilling for Alternative PBSH at Portion I (PD97)	15	17	0	017/08/(6	04-Dec-19 A	23-Dec-19	27-Aug-21	27-Aug-21		5	100%
PORI.ED.PD1070-0	Idling of Predrill Rig for PD97 by Sub-contractor	3	3	0	017/08/(6	14-Dec-19 A	17-Dec-19	27-Aug-21	27-Aug-21		0	100%
PORI.ED.PD1120	Predrilling for Alternative PBSH at Portion I (PD01A)	15	7	0	017/08/(6	25-Apr-20 A	05-May-2(	27-Aug-21	27-Aug-21		5	100%
Rig 3		15	10	0	017/08/(6	05-Sep-19 A	17-Sep-19	27-Aug-21	27-Aug-21			
PORI.ED.PD1020	Predrilling for Alternative PBSH at Portion I (PD08)	15	10	0	017/08/(6	05-Sep-19 A	17-Sep-19	27-Aug-21	27-Aug-21		5	100%
Rig 4		15	10	0	017/08/(6	17-Aug-19 A	28-Aug-19	27-Aug-21	27-Aug-21			
PORI.ED.PD1040	Predrilling for Alternative PBSH at Portion I (PD98)	15	10	0	017/08/(6	17-Aug-19 A	28-Aug-19	27-Aug-21	27-Aug-21		5	100%
Rig 5		23	16	0	017/08/(6	10-Oct-19 A	28-Oct-19	27-Aug-21	27-Aug-21			
PORI.ED.PD1050	Predrilling for Alternative PBSH at Portion I (PD02)	15	8	0	017/08/(6	10-Oct-19 A	18-Oct-19	27-Aug-21	27-Aug-21		5	100%
PORI.ED.PD1080	Predrilling for Alternative PBSH at Portion I (PD03)	15	8	0	017/08/(6	19-Oct-19 A	28-Oct-19	27-Aug-21	27-Aug-21		5	100%
Rig 6		60	58	0	017/08/(6	23-Jul-19 A	28-Sep-19	27-Aug-21	30-Sep-23			
PORI.ED.PD1010	Predrilling for Alternative PBSH at Portion I (PD01) (CE018, CE017)	15	10	0	017/08/(6	23-Jul-19 A	02-Aug-19	27-Aug-21	27-Aug-21		5	100%
PORI.ED.PD1030	Predrilling for Alternative PBSH at Portion I (PD04)	15	12	0	017/08/(6	13-Sep-19 A	27-Sep-19	30-Sep-23	30-Sep-23		5	100%
PORI.ED.PD1060	Predrilling for Alternative PBSH at Portion I (PD07)	15	9	0	017/08/(6	03-Aug-19 A	13-Aug-19	27-Aug-21	27-Aug-21		5	100%
PORI.ED.PD1090	Predrilling for Alternative PBSH at Portion I (PD06)	15	8	0	017/08/(6	14-Aug-19 A	22-Aug-19	27-Aug-21	27-Aug-21		5	100%
PORI.ED.PD1100	Predrilling for Alternative PBSH at Portion I (PD05)	15	8	0	017/08/(6	23-Aug-19 A	31-Aug-19	27-Aug-21	27-Aug-21		5	100%
PORI.ED.PD1110	Demobolize of Predrilling Rig 6 off Site	1	1	0	017/08/(6	28-Sep-19 A	28-Sep-19	30-Sep-23	30-Sep-23		0	100%
ELS Construction for Elevated Cycle Track		15	47	0	017/08/(6	21-Aug-20 A	16-Oct-20	27-Aug-21	27-Aug-21			
PORI.ED.EX1000	Sheet Piling along Elevated Cycle Track	15	47	0	017/08/(6	21-Aug-20 A	16-Oct-20	27-Aug-21	27-Aug-21		0	100%
Construction of Alternative PBSH (24nos, 7D/pile, 1 rig)		157	143	0	017/08/(6	10-Mar-20 A	01-Sep-2(	27-Aug-21	27-Aug-21			
PORI.ED.HP0500	Mobilization of Piling Rigs for PBSH	5	15	0	017/08/(6	07-May-20 A	23-May-2(	27-Aug-21	27-Aug-21		0	100%
PORI.ED.HP1000	Construction of Alternative PBSH (16nos,7D/pile, rig 1)	70	71	0	017/08/(6	25-May-20 A	17-Aug-2(	27-Aug-21	27-Aug-21		0	100%
PORI.ED.HP1010	Construction of Alternative PBSH at PC2-P1, PC2-P2, PC3-P2 (3nos, 7D/rig,	28	14	0	017/08/(6	10-Mar-20 A	25-Mar-20	27-Aug-21	27-Aug-21		0	100%
PORI.ED.HP1020	Construction of Alternative PBSH (5nos,7D/pile, rig 2)	21	26	0	017/08/(6	03-Aug-20 A	01-Sep-2(	27-Aug-21	27-Aug-21		0	100%
PORI.ED.HP1250	Pile Loading Test	14	6	0	017/08/(6	26-Aug-20 A	01-Sep-2(	27-Aug-21	27-Aug-21		0	100%
Excavation to Pile Cap Level (+5.0mPD to +2.8mPD) (2000m3)		45	72	0	017/08/(6	12-Oct-20 A	07-Jan-21	27-Aug-21	09-Sep-21			
PORI.ED.EX1030	Excavation to Strut Level (+5.0mPD to +4.0mPD)	8	25	0	017/08/(6	12-Oct-20 A	10-Nov-2(	27-Aug-21	27-Aug-21		0	100%
PORI.ED.EX1040	Installation of Concrete Blocks and Struts for ELS	20	20	0	017/08/(6	11-Nov-20 A	03-Dec-2(	09-Sep-21	09-Sep-21		0	100%
PORI.ED.EX1060	Excavation to Pile Cap Founding Level (+2.8mPD)	20	47	0	017/08/(6	11-Nov-20 A	07-Jan-21	09-Sep-21	09-Sep-21		0	100%



Actual Level of Effort
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Remaining Work
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Milestone
summary

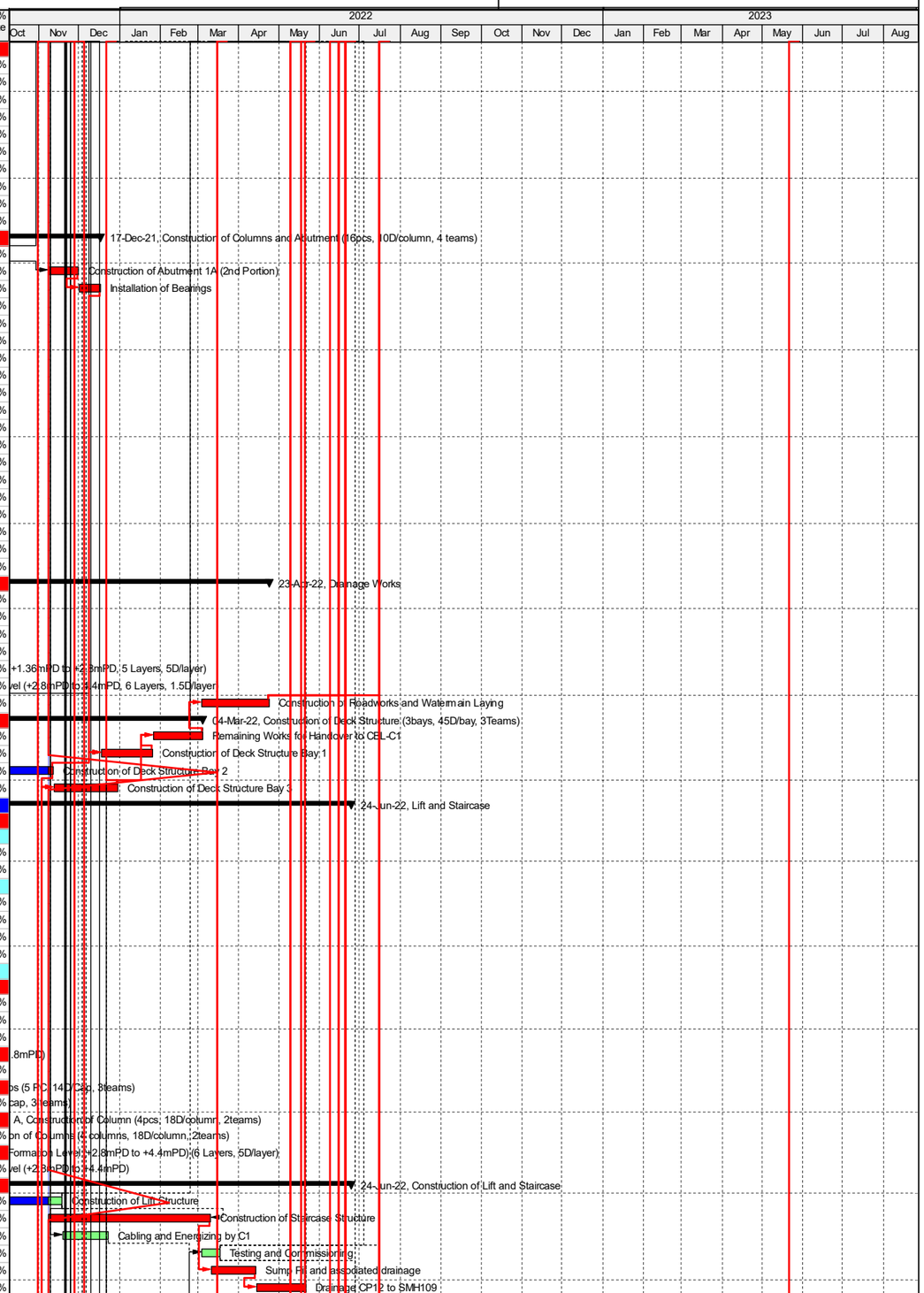
土木工程拓展署
Civil Engineering and Development Department

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthly Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
Construction of Pile Caps (10 PC, 14D/Cap, 3teams)		105	62	0	017/08/6	17-Nov-20 A	30-Jan-21	09-Sep-21	21-Oct-21			
PORI.ED.PC1010	Construction of PC10 (incl. Installation of Capping plate)	14	23	0	017/08/6	17-Nov-20 A	12-Dec-20	09-Sep-21	09-Sep-21		0	100%
PORI.ED.PC1020	Construction of PC9 (incl. Installation of Capping plate)	14	22	0	017/08/6	18-Nov-20 A	12-Dec-20	09-Sep-21	09-Sep-21		0	100%
PORI.ED.PC1030	Construction of PC8 (incl. Installation of Capping plate)	14	22	0	017/08/6	24-Nov-20 A	18-Dec-20	09-Sep-21	09-Sep-21		0	100%
PORI.ED.PC1040	Construction of PC7 (incl. Installation of Capping plate)	14	19	0	017/08/6	27-Nov-20 A	18-Dec-20	09-Sep-21	09-Sep-21		0	100%
PORI.ED.PC1050	Construction of PC6 (incl. Installation of Capping plate)	14	20	0	017/08/6	28-Nov-20 A	21-Dec-20	09-Sep-21	09-Sep-21		0	100%
PORI.ED.PC1060	Construction of PC5 (incl. Installation of Capping plate)	14	26	0	017/08/6	30-Nov-20 A	31-Dec-20	09-Sep-21	09-Sep-21		0	100%
PORI.ED.PC1070	Construction of PC4 (incl. Installation of Capping plate)	14	19	0	017/08/6	08-Dec-20 A	31-Dec-20	09-Sep-21	09-Sep-21		0	100%
PORI.ED.PC1080	Construction of PC3 (incl. Installation of Capping plate)	14	19	0	017/08/6	14-Dec-20 A	07-Jan-21	09-Sep-21	09-Sep-21		0	100%
PORI.ED.PC1090	Construction of PC2 (incl. Installation of Capping plate)	14	16	0	017/08/6	17-Dec-20 A	07-Jan-21	09-Sep-21	09-Sep-21		0	100%
PORI.ED.PC1100	Construction of PC1 (incl. Installation of Capping plate)	14	10	0	017/08/6	20-Jan-21 A	30-Jan-21	21-Oct-21	21-Oct-21		0	100%
Construction of Columns and Abutment (16pcs, 10D/column, 4 teams)		289	55	35	017/08/6	29-Dec-20 A	17-Dec-21	09-Sep-21	27-Nov-21	-17		
PORI.ED.CP1010	Construction of Abutment 1A (1st Portion)	29	51	0	017/08/6	04-Jan-21 A	08-Mar-21	09-Sep-21	09-Sep-21		0	100%
PORI.ED.CP1010-01	Construction of Abutment 1A (2nd Portion)	20	0	20	017/08/6	08-Nov-21	30-Nov-21	19-Oct-21	10-Nov-21	-17	0	0%
PORI.ED.CP1020	Installation of Bearings	15	0	15	017/08/6	01-Dec-21	17-Dec-21	11-Nov-21	27-Nov-21	-17	0	0%
PORI.ED.CP1030	Construction Column PC9-CA	18	12	0	017/08/6	29-Dec-20 A	12-Jan-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1040	Construction Column PC9-CB	18	12	0	017/08/6	29-Dec-20 A	12-Jan-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1050	Construction Column PC8-CA	18	18	0	017/08/6	29-Dec-20 A	19-Jan-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1060	Construction Column PC8-CB	18	12	0	017/08/6	29-Dec-20 A	12-Jan-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1070	Construction Column PC7-CA	18	6	0	017/08/6	18-Jan-21 A	23-Jan-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1080	Construction Column PC7-CB	18	6	0	017/08/6	18-Jan-21 A	23-Jan-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1090	Construction Column PC6-CA	18	7	0	017/08/6	22-Jan-21 A	29-Jan-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1095	Construction Column PC6-CB	18	7	0	017/08/6	22-Jan-21 A	29-Jan-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1100	Construction Column PC5-CA	18	9	0	017/08/6	23-Jan-21 A	02-Feb-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1110	Construction Column PC5-CB	18	9	0	017/08/6	23-Jan-21 A	02-Feb-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1120	Construction Column PC4-CA	18	10	0	017/08/6	26-Jan-21 A	05-Feb-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1130	Construction Column PC4-CB	18	10	0	017/08/6	26-Jan-21 A	05-Feb-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1140	Construction Column PC3-CA	18	8	0	017/08/6	02-Feb-21 A	10-Feb-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1150	Construction Column PC3-CB	2	8	0	017/08/6	02-Feb-21 A	10-Feb-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1160	Construction Column PC1-CA	18	5	0	017/08/6	24-Feb-21 A	01-Mar-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.CP1170	Construction Column PC2-CA	18	5	0	017/08/6	24-Feb-21 A	01-Mar-21	21-Oct-21	21-Oct-21		0	100%
Drainage Works		353	133	40	017/08/6	22-Dec-20 A	23-Apr-22	21-Oct-21	30-Mar-22	-17		
PORI.ED.DRA1020	Construction of Drainage from SMH105 to SMH106	20	34	0	017/08/6	22-Dec-20 A	02-Feb-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.DRA1030	Construction of Drainage from SMH106 to SMH107	20	24	0	017/08/6	09-Jan-21 A	05-Feb-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.DRA1040	Construction of Drainage from SMH107 to SMH108	20	33	0	017/08/6	15-Jan-21 A	25-Feb-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.DRA1050	Construction of Drainage from SMH108 to SMH109	20	20	0	017/08/6	09-Mar-21 A	31-Mar-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.DRA1055	Backfilling to Interim Formation Level (+1.36mPD to +2.8mPD, 5 Layers, 5D/	25	25	0	017/08/6	28-Apr-21 A	28-May-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.DRA1060	Backfilling to Interim Formation Level (+2.8mPD to 4.4mPD, 6 Layers, 1.5D/l	9	9	0	017/08/6	29-May-21 A	08-Jun-21	21-Oct-21	21-Oct-21		0	100%
PORI.ED.DRA1080	Construction of Roadworks and Watermain Laying	40	0	40	017/08/6	04-Mar-22	23-Apr-22	12-Feb-22	30-Mar-22	-17	0	0%
Construction of Deck Structure (3bays, 45D/bay, 3Teams)		180	159	95	017/08/6	28-Apr-21 A	04-Mar-22	21-Oct-21	12-Feb-22	-17		
PORI.ED.1140	Remaining Works for Handover to CBL-C1	30	0	30	017/08/6	26-Jan-22	04-Mar-22	06-Jan-22	12-Feb-22	-17	0	0%
PORI.ED.DS.1010	Construction of Deck Structure Bay 1	30	0	30	017/08/6	18-Dec-21	25-Jan-22	29-Nov-21	05-Jan-22	-17	0	0%
PORI.ED.DS.1020	Construction of Deck Structure Bay 2	180	159	4	017/08/6	28-Apr-21 A	11-Nov-21	21-Oct-21	25-Oct-21	-15		97.78%
PORI.ED.DS.1030	Construction of Deck Structure Bay 3	40	0	40	017/08/6	12-Nov-21	30-Dec-21	26-Oct-21	10-Dec-21	-15		0%
Lift and Staircase		820	636	184		16-Sep-19 A	24-Jun-22	18-Aug-21	30-Sep-23	378		
Predrilling Works for PBSH (5nos, 10D/pile+5D TRA, 1-3rigs)		148	142	0		16-Sep-19 A	07-Mar-20	27-Aug-21	30-Sep-23			
Rig 3		68	64	0	017/08/6	18-Sep-19 A	03-Dec-19	27-Aug-21	27-Aug-21			
PORI.LS.PD1010	Predrilling for PBSH at Lift and Staircase (PD09)	15	11	0	017/08/6	21-Nov-19 A	03-Dec-19	27-Aug-21	27-Aug-21		5	100%
PORI.LS.PD1020	Predrilling for PBSH at Lift and Staircase (PD94)	15	9	0	017/08/6	18-Sep-19 A	27-Sep-19	27-Aug-21	27-Aug-21		5	100%
Rig 2		148	142	0	017/08/6	16-Sep-19 A	07-Mar-20	27-Aug-21	30-Sep-23			
PORI.LS.PD1030	Predrilling for PBSH at Lift and Staircase (PD10)	15	14	0	017/08/6	16-Sep-19 A	02-Oct-19	27-Aug-21	27-Aug-21		5	100%
PORI.LS.PD1040	Predrilling for PBSH at Lift and Staircase (PD95)	15	7	0	017/08/6	29-Feb-20 A	07-Mar-20	27-Aug-21	27-Aug-21		5	100%
PORI.LS.PD1040-0	Demobilization of Rig 2 off site	1	1	0	017/08/6	07-Mar-20 A	07-Mar-20	30-Sep-23	30-Sep-23		0	100%
PORI.LS.PD1050	Predrilling for PBSH at Lift and Staircase (PD96)	15	11	0	017/08/6	03-Oct-19 A	16-Oct-19	27-Aug-21	27-Aug-21		5	100%
Rig 5		0	0	0						0		
Construction of PBSH (14nos, 7D/pile, 1 rig)		84	71	0	017/08/6	03-Jul-20 A	23-Sep-20	27-Aug-21	04-Dec-21			
PORI.LS.HP0900	Mobilization of PBSH rig	10	10	0	017/08/6	03-Jul-20 A	14-Jul-20	27-Aug-21	27-Aug-21		0	100%
PORI.LS.HP1000	Construction of PBSH (10nos,7D/pile,1 rig)	49	36	0	017/08/6	13-Aug-20 A	23-Sep-20	04-Dec-21	04-Dec-21		0	100%
PORI.LS.HP1010	Construction of PBSH (5nos,7D/pile,1 rig)	21	23	0	017/08/6	15-Jul-20 A	10-Aug-20	27-Aug-21	27-Aug-21		0	100%
Excavation to Pile Cap Level (+5.0mPD to +2.8mPD)		10	10	0	017/08/6	09-Mar-21 A	19-Mar-21	04-Dec-21	04-Dec-21			
PORI.LS.EX1010	Excavation to Pile Cap Level (+5.0mPD to +2.8mPD)	10	10	0	017/08/6	09-Mar-21 A	19-Mar-21	04-Dec-21	04-Dec-21		0	100%
Construction of Pile Caps (5 PC, 14D/Cap, 3teams)		23	55	0	017/08/6	20-Mar-21 A	31-May-21	04-Dec-21	04-Dec-21			
PORI.LS.PC1000	Construction of Pile Caps (5PC, 14D/cap, 3 teams)	23	55	0	017/08/6	20-Mar-21 A	31-May-21	04-Dec-21	04-Dec-21		0	100%
Construction of Column (4pcs, 18D/column, 2teams)		36	66	0	017/08/6	11-Jun-21 A	30-Aug-21	04-Dec-21	04-Dec-21			
PORI.LS.CO1000	Construction of Columns (4 columns, 18D/column, 2teams)	36	66	0	017/08/6	11-Jun-21 A	30-Aug-21	04-Dec-21	04-Dec-21		0	100%
Backfilling to Interim Formation Level (+2.8mPD to +4.4mPD) (6 Layers, 5D/layer)		30	4	0	017/08/6	04-Jun-21 A	09-Jun-21	04-Dec-21	04-Dec-21			
PORI.LS.BF1010	Backfilling to Interim Formation Level (+2.8mPD to +4.4mPD)	30	4	0	017/08/6	04-Jun-21 A	09-Jun-21	04-Dec-21	04-Dec-21		0	100%
Construction of Lift and Staircase		203	113	184	017/08/6	24-Jun-21 A	24-Jun-22	18-Aug-21	30-Mar-22	-67		
PORI.LS.1060	Construction of Lift Structure	120	113	10	017/08/6	24-Jun-21 A	18-Nov-21	04-Dec-21	15-Dec-21	23	0	91.67%
PORI.LS.1061	Construction of Staircase Structure	100	0	100	017/08/6	08-Nov-21	10-Mar-22	18-Aug-21	15-Dec-21	-67		0%
PORI.LS.1070	Cabling and Energizing by C1	30	0	30	017/08/6	19-Nov-21	23-Dec-21	10-Feb-22	16-Mar-22	65	0	0%
PORI.LS.1080	Testing and Commissioning	12	0	12	017/08/6	04-Mar-22	17-Mar-22	17-Mar-22	30-Mar-22	11	0	0%
PORI.LS.1090	Sump Pit and associated drainage	28	0	28	017/08/6	11-Mar-22	13-Apr-22	16-Dec-21	20-Jan-22	-67		0%
PORI.LS.1100	Drainage CP12 to SMH109	28	0	28	017/08/6	14-Apr-22	21-May-22	21-Jan-22	25-Feb-22	-67		0%



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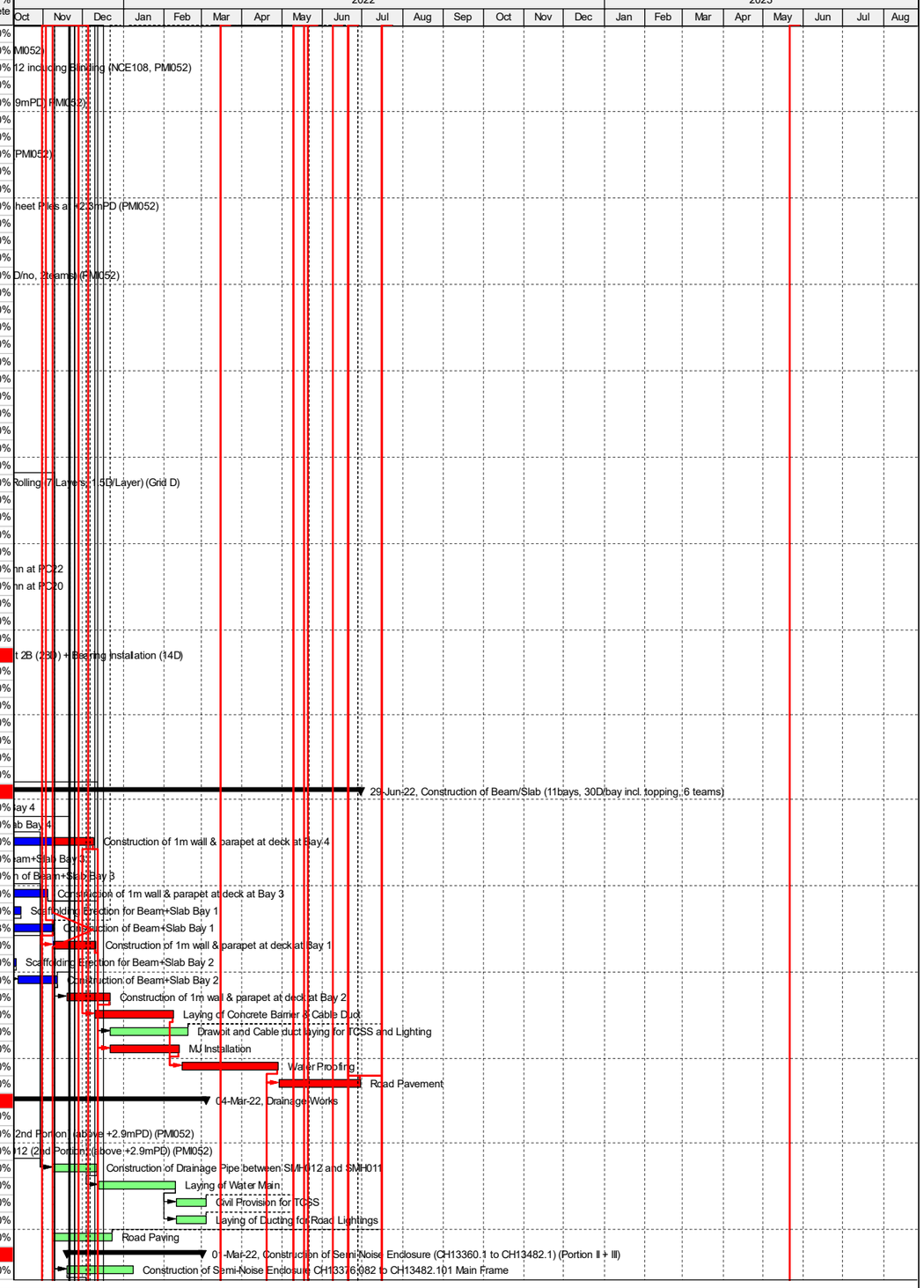
Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
PORIIILED.GD.0190	2nd Drainage Diversion of Existing 1500mm pipe from SMH011 ELS to SMH	14	15	0	017/08(6	06-Oct-20 A	22-Oct-20	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0210	Further Excavation and Installation of ELS (lagging) to +0.83mPD for SMH01	18	9	0	017/08(6	23-Oct-20 A	03-Nov-20	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0220	Further Excavation and Installation of ELS (lagging) to +0.31mPD for SMH01	17	23	0	017/08(6	22-Dec-20 A	20-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0230	Construction of Manhole SMH011 (1st Portion) (below +2.9mPD) (PMI052)	10	45	0	017/08(6	05-Nov-20 A	29-Dec-20	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0240	Construction of Manhole SMH012 (1st Portion) (below +2.9mPD) PMI052)	10	10	0	017/08(6	12-Mar-21 A	23-Mar-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0250	Backfilling for SMH011 to +2.3mPD (PMI052)	10	4	0	017/08(6	30-Dec-20 A	04-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0250-01	Excavation to +2.3mPD for PC30 (PMI052)	4	5	0	017/08(6	05-Jan-21 A	09-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0260	Removal of Struts in ELS for SMH011 and Cutting of Sheet Piles at +2.3mPI	4	7	0	017/08(6	04-Jan-21 A	11-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0270	Backfilling for SMH012 to +2.3mPD (PMI052)	10	10	0	017/08(6	12-Mar-21 A	23-Mar-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0270-01	Excavation to +2.3mPD for PC18 (PMI052)	4	4	0	017/08(6	24-Mar-21 A	27-Mar-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0280	Removal of Struts in ELS for SMH012 and Cutting of Sheet Piles at +2.3mP	4	4	0	017/08(6	29-Mar-21 A	01-Apr-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.0310	Excavate to +2.3mPD for Grid 3	5	5	0	017/08(6	09-Mar-21 A	13-Mar-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1010-02	Installation of Capping Plate for PC22, PC24 (4nos, 4D/no, 2teams) (PMI052	8	8	0	017/08(6	17-Nov-20 A	25-Nov-20	27-Aug-21	27-Aug-21		0	100%
PORIIILED.GD.1010-03	Installation of Capping Plate for PC30 (4nos, 4D/no, 2teams) (PMI052)	8	5	0	017/08(6	14-Jan-21 A	19-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1010-04	Installation of Capping Plate for PC18, 20 (4nos, 4D/no, 2teams) (PMI052)	8	8	0	017/08(6	07-Apr-21 A	15-Apr-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1010-05	Installation of Capping Plate for PC14, 16 (4nos, 4D/no, 2 teams) (PMI052)	8	5	0	017/08(6	16-Jan-21 A	21-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1010-06	Installation of Capping Plate for PC26, PC28 (4nos, 4D/no, 2 teams)	8	6	0	017/08(6	16-Nov-20 A	21-Nov-20	27-Aug-21	27-Aug-21		0	100%
PORIIILED.GD.1020	Construction of PC30 (PMI052)	9	10	0	017/08(6	20-Jan-21 A	30-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1021	Construction of PC28 (PMI052)	9	8	0	017/08(6	27-Nov-20 A	05-Dec-20	27-Aug-21	27-Aug-21		0	100%
PORIIILED.GD.1022	Construction of PC26 (PMI052)	9	9	0	017/08(6	26-Nov-20 A	05-Dec-20	27-Aug-21	27-Aug-21		0	100%
PORIIILED.GD.1023	Construction of PC24 (PMI052)	9	10	0	017/08(6	25-Nov-20 A	05-Dec-20	27-Aug-21	27-Aug-21		0	100%
PORIIILED.GD.1024	Construction of PC22 (PMI052)	9	7	0	017/08(6	28-Nov-20 A	05-Dec-20	27-Aug-21	27-Aug-21		0	100%
PORIIILED.GD.1025	Construction of PC20 (PMI052)	9	33	0	017/08(6	16-Apr-21 A	27-May-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1026	Construction of PC18 (PMI052)	9	32	0	017/08(6	16-Apr-21 A	26-May-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1027	Construction of PC16 (PMI052)	9	14	0	017/08(6	19-Dec-20 A	07-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1028	Construction of PC14 (PMI052)	9	11	0	017/08(6	23-Dec-20 A	07-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1030	Backfilling to Interim Formation Level by Rolling (7 Layers, 1.5D/Layer) (Grid	11	11	0	017/08(6	05-May-21 A	17-May-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1050	Construction of Column at PC30	10	19	0	017/08(6	13-Mar-21 A	09-Apr-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1060	Construction of Column at PC28	10	20	0	017/08(6	19-Jan-21 A	10-Feb-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1070	Construction of Column at PC26	10	10	0	017/08(6	19-Jan-21 A	29-Jan-21	02-Sep-21	02-Sep-21		0	100%
PORIIILED.GD.1080	Construction of Column at PC24	10	10	0	017/08(6	19-Jan-21 A	29-Jan-21	07-Sep-21	07-Sep-21		0	100%
PORIIILED.GD.1090	Construction of Column at PC22	10	148	0	017/08(6	19-Jan-21 A	23-Jul-21 A	07-Sep-21	07-Sep-21		0	100%
PORIIILED.GD.1100	Construction of Column at PC20	10	71	0	017/08(6	27-Apr-21 A	23-Jul-21 A	07-Sep-21	07-Sep-21		0	100%
PORIIILED.GD.1110	Construction of Column at PC18	10	10	0	017/08(6	27-Apr-21 A	08-May-21	07-Sep-21	07-Sep-21		0	100%
PORIIILED.GD.1120	Construction of Column at PC16	10	10	0	017/08(6	15-Mar-21 A	25-Mar-21	07-Sep-21	07-Sep-21		0	100%
PORIIILED.GD.1130	Construction of Column at PC14	10	10	0	017/08(6	15-Mar-21 A	25-Mar-21	07-Sep-21	07-Sep-21		0	100%
Construction of PC42 (16D) + Abutment 2B (28D) + Bearing Installation (14D)		292	292	0	017/08(6	15-Apr-20 A	09-Apr-21	08-Sep-21	30-Sep-23			
PORIIIAB2B.1000	Excavation to Pile Cap Founding Level (Abutment 2B)	10	49	0	017/08(6	15-Apr-20 A	12-Jun-20	08-Sep-21	08-Sep-21		0	100%
PORIIIAB2B.1002	Trimming of Bored Pile Head (3nos) (Abutment 2B)	15	45	0	017/08(6	04-May-20 A	24-Jun-20	08-Sep-21	08-Sep-21		0	100%
PORIIIAB2B.1005	Construction of PC42	16	11	0	017/08(6	26-Jun-20 A	09-Jul-20 A	08-Sep-21	08-Sep-21		0	100%
PORIIIAB2B.1007	Backfilling to Interim Formation Level (7 Layers, 5D/Layer) (Abutment 2B)	35	17	0	017/08(6	13-Jul-20 A	31-Jul-20 A	30-Sep-23	30-Sep-23		0	100%
PORIIIAB2B.1010	Construction of Abutment 2B (1st pour)	14	25	0	017/08(6	13-Jul-20 A	10-Aug-20	08-Sep-21	08-Sep-21		0	100%
PORIIIAB2B.1010-01	Construction of Abutment 2B (2nd pour)	14	14	0	017/08(6	01-Dec-20 A	16-Dec-20	08-Sep-21	08-Sep-21		0	100%
PORIIIAB2B.1020	Bearing Installation at Abutment 2B	14	14	0	017/08(6	20-Mar-21 A	09-Apr-21	08-Sep-21	08-Sep-21		0	100%
Construction of Beam/Slab (11bays, 30D/bay incl. topping, 6 teams)		330	190	188	017/08(6	23-Mar-21 A	29-Jun-22	02-Sep-21	14-Apr-22	-59		
PORIIILED.PB1009	Scaffolding Erection for Beam+Slab Bay 4	12	52	0	017/08(6	23-Mar-21 A	29-May-21	02-Sep-21	02-Sep-21			100%
PORIIILED.PB1010	Construction of Beam+Slab Bay 4	28	40	0	017/08(6	20-May-21 A	08-Jul-21 A	02-Sep-21	02-Sep-21		0	100%
PORIIILED.PB1011	Construction of 1m wall & parapet at deck at Bay 4	28	34	28	017/08(6	27-Sep-21 A	09-Dec-21	02-Sep-21	06-Oct-21	-54		0%
PORIIILED.PB1019	Scaffolding Erection for Beam+Slab Bay 3	12	31	0	017/08(6	28-May-21 A	06-Jul-21 A	07-Sep-21	07-Sep-21			100%
PORIIILED.PB1020	Construction of Beam+Slab Bay 3	28	43	0	017/08(6	06-Jul-21 A	25-Aug-21	07-Sep-21	07-Sep-21		0	100%
PORIIILED.PB1021	Construction of 1m wall & parapet at deck at Bay 3	28	32	0	017/08(6	27-Sep-21 A	05-Nov-21	07-Oct-21	07-Oct-21			100%
PORIIILED.PB1029	Scaffolding Erection for Beam+Slab Bay 1	20	49	0	017/08(6	16-Aug-21 A	15-Oct-21	07-Sep-21	07-Sep-21			100%
PORIIILED.PB1030	Construction of Beam+Slab Bay 1	28	34	1	017/08(6	27-Sep-21 A	08-Nov-21	07-Sep-21	07-Sep-21	-50	0	96.43%
PORIIILED.PB1031	Construction of 1m wall & parapet at deck at Bay 1	28	0	28	017/08(6	09-Nov-21	10-Dec-21	08-Sep-21	12-Oct-21	-50		0%
PORIIILED.PB1039	Scaffolding Erection for Beam+Slab Bay 2	12	44	0	017/08(6	19-Aug-21 A	12-Oct-21	08-Sep-21	08-Sep-21			100%
PORIIILED.PB1040	Construction of Beam+Slab Bay 2	28	25	0	017/08(6	13-Oct-21 A	12-Nov-21	08-Sep-21	08-Sep-21		0	100%
PORIIILED.PB1042	Construction of 1m wall & parapet at deck at Bay 2	28	0	28	017/08(6	19-Nov-21	21-Dec-21	08-Sep-21	12-Oct-21	-59		0%
PORIIILED.PB1050	Laying of Concrete Barrier & Cable Duct	45	0	45	017/08(6	10-Dec-21	07-Feb-22	07-Oct-21	29-Nov-21	-54		0%
PORIIILED.PB1055	Drawpit and Cable duct laying for TCSS and Lighting	45	0	45	017/08(6	22-Dec-21	18-Feb-22	21-Jan-22	18-Mar-22	24		0%
PORIIILED.PB1060	MJ Installation	40	0	40	017/08(6	22-Dec-21	12-Feb-22	13-Oct-21	29-Nov-21	-59		0%
PORIIILED.PB1070	Water Proofing	60	0	60	017/08(6	14-Feb-22	28-Apr-22	30-Nov-21	14-Feb-22	-59		0%
PORIIILED.PB1080	Road Pavement	50	0	50	017/08(6	29-Apr-22	29-Jun-22	15-Feb-22	14-Apr-22	-59		0%
Drainage Works		253	173	95	017/08(6	16-Nov-20 A	04-Mar-22	20-Nov-21	14-Apr-22	34		
PORIIILED.DRA1110	Construction of Drainage SMH109 to SMH012	45	121	0	017/08(6	16-Nov-20 A	17-Apr-21	20-Nov-21	20-Nov-21		0	100%
PORIIILED.DRA1120-01	Construction of Manhole SMH011 (2nd Portion) (above +2.9mPD) (PMI052)	10	10	0	017/08(6	27-May-21 A	08-Jun-21	20-Nov-21	20-Nov-21		0	100%
PORIIILED.DRA1120-02	Construction of Manhole SMH012 (2nd Portion) (above +2.9mPD) (PMI052)	10	10	0	017/08(6	08-Jun-21 A	21-Jun-21	20-Nov-21	20-Nov-21		0	100%
PORIIILED.DRA1130-01	Construction of Drainage Pipe between SMH012 and SMH011	30	0	30	017/08(6	08-Nov-21	11-Dec-21	20-Nov-21	28-Dec-21	12	0	0%
PORIIILED.DRA1140	Laying of Water Main	45	0	45	017/08(6	13-Dec-21	09-Feb-22	28-Dec-21	23-Feb-22	12	0	0%
PORIIILED.DRA1150	Civil Provision for TCSS	20	0	20	017/08(6	10-Feb-22	04-Mar-22	23-Feb-22	18-Mar-22	12		0%
PORIIILED.DRA1160	Laying of Ducting for Road Lightings	20	0	20	017/08(6	10-Feb-22	04-Mar-22	23-Feb-22	18-Mar-22	12		0%
PORIIILED.DRA1170	Road Paving	40	0	40	017/08(6	08-Nov-21	23-Dec-21	26-Feb-22	14-Apr-22	89		0%
Construction of Semi Noise Enclosure (CH13360.1 to CH13482.1) (Portion II + III)		82	0	82	017/08(6	19-Nov-21	01-Mar-22	05-Jan-22	14-Apr-22	37		
PORIIILED.NE1020	Construction of Semi-Noise Enclosure CH13376.082 to CH13482.101 Main I	41	0	41	017/08(6	19-Nov-21	08-Jan-22	05-Jan-22	24-Feb-22	37	0	0%



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

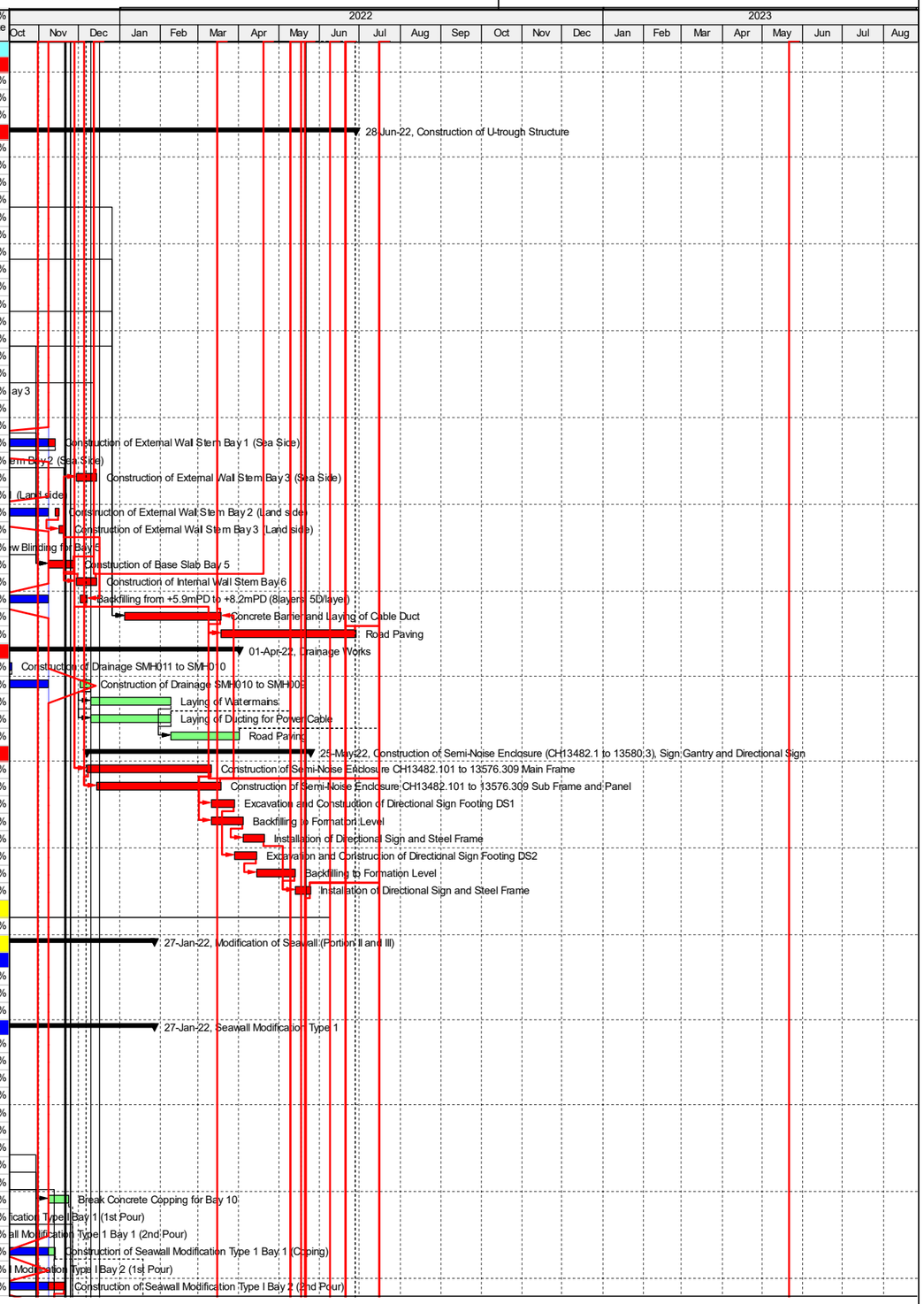
土木工程拓展署
Civil Engineering and Development Department

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthy Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
Rig 6		0	0	0						0		
Construction of Alternative PBSH (40nos, 7D/pile, 1-2 rigs)		176	189	0	017/08(6	27-Aug-19 A	17-Apr-20	27-Aug-21	03-Sep-21			
PORIILUT.HP1010	Alternative PBSH (7D/pile, UP40,35,38,33,36,31,26,21,28,16,11,15,10,13,6	28	93	0	017/08(6	27-Aug-19 A	16-Dec-19	27-Aug-21	27-Aug-21		0	100%
PORIILUT.HP1020	Alternative PBSH (7D/pile, UP30,37,32,23,25,20,18,27,22,17,12,14,19,24,2	45	82	0	017/08(6	15-Oct-19 A	21-Jan-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.HP1410	Pile Loading Test (28D Concrete Cube + 14D Setup)	33	8	0	017/08(6	06-Apr-20 A	17-Apr-20	03-Sep-21	03-Sep-21		0	100%
Construction of U-trough Structure		637	488	187		16-Mar-20 A	28-Jun-22	28-Aug-21	30-Sep-23	375		
PORIILUT.ST1010	Excavation to Pile Cap Founding Level (+4.4mPD to +3.8mPD)(2000m3)	15	72	0	017/08(6	16-Mar-20 A	13-Jun-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1025	Trimming of Pile Head and Installation of Capping Plate	60	50	0	017/08(6	06-May-20 A	04-Jul-20 A	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1035	Review Design on U-trough Structure due to Additional Design Requriement	60	108	0	017/08(7	06-Jul-20 A	21-Oct-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1100	Construction of Base Slab Bay 1	18	16	0	017/08(6	03-Sep-20 A	21-Sep-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1105	Site Clearance for U-trough Bay 2 to Bay 5 (NCE119)	4	4	0	017/08(6	22-Oct-20 A	27-Oct-20	30-Sep-23	30-Sep-23		0	100%
PORIILUT.ST1107	Excavation to Revised Formation Level and Construction of New Blinding for	10	15	0	017/08(6	28-Oct-20 A	13-Nov-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1110	Construction of Base Slab Bay 2	18	14	0	017/08(6	14-Nov-20 A	30-Nov-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1115	Excavation to Revised Formation Level, Construction of New Blinding for Ba	10	30	0	017/08(6	30-Oct-20 A	03-Dec-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1117	Re-construction of Capping Plate for Bay 3	10	10	0	017/08(6	02-Dec-20 A	14-Dec-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1120	Construction of Base Slab Bay 3	18	12	0	017/08(6	15-Dec-20 A	30-Dec-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1125	Re-construction of Capping Plate for Bay 4	10	13	0	017/08(6	15-Dec-20 A	31-Dec-20	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1130	Construction of Base Slab Bay 4	18	9	0	017/08(6	07-Jan-21 A	16-Jan-21	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1150	Construction of Internal Wall Stem Bay 1	14	12	0	017/08(6	14-Apr-21 A	28-Apr-21	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1160	Construction of Internal Wall Stem Bay 2	14	14	0	017/08(6	22-Feb-21 A	09-Mar-21	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1170	Construction of Internal Wall Stem Bay 3	14	14	0	017/08(6	18-May-21 A	03-Jun-21	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1180	Construction of Internal Wall Stem Bay 4	11	11	0	017/08(6	01-Apr-21 A	17-Apr-21	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1190	Construction of Internal Wall Stem Bay 5	14	23	0	017/08(6	13-Apr-21 A	11-May-21	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1200	Construction of External Wall Stem Bay 1 (Sea Side)	14	151	6	017/08(6	08-May-21 A	13-Nov-21	28-Aug-21	03-Sep-21	-58	0	60%
PORIILUT.ST1210	Construction of External Wall Stem Bay 2 (Sea Side)	14	20	0	017/08(6	26-May-21 A	18-Jun-21	04-Sep-21	04-Sep-21		0	100%
PORIILUT.ST1220	Construction of External Wall Stem Bay 3 (Sea Side)	14	0	14	017/08(6	29-Nov-21	14-Dec-21	25-Sep-21	12-Oct-21	-53	0	0%
PORIILUT.ST1230	Construction of External Wall Stem Bay 1 (Land side)	14	14	0	017/08(6	03-May-21 A	18-May-21	04-Sep-21	04-Sep-21		0	100%
PORIILUT.ST1240	Construction of External Wall Stem Bay 2 (Land side)	14	114	2	017/08(6	23-Jun-21 A	16-Nov-21	04-Sep-21	06-Sep-21	-58	0	85.71%
PORIILUT.ST1241	Construction of External Wall Stem Bay 3 (Land side)	4	0	4	017/08(6	16-Nov-21	20-Nov-21	07-Sep-21	10-Sep-21	-58		0%
PORIILUT.ST1242	Excavation to Revised Formation Level, Construction of New Blinding for Ba	10	10	0	017/08(6	09-Mar-21 A	19-Mar-21	03-Sep-21	03-Sep-21		0	100%
PORIILUT.ST1243	Construction of Base Slab Bay 5	18	0	18	017/08(6	08-Nov-21	27-Nov-21	03-Sep-21	24-Sep-21	-53	0	0%
PORIILUT.ST1244	Construction of Internal Wall Stem Bay 6	14	0	14	017/08(6	29-Nov-21	14-Dec-21	25-Sep-21	12-Oct-21	-53	0	0%
PORIILUT.ST1250	Backfilling from +5.9mPD to +8.2mPD (8layers, 5D/layer)	80	111	4	017/08(6	26-Jun-21 A	07-Dec-21	24-Sep-21	28-Sep-21	-58	0	95%
PORIILUT.ST1260	Concrete Barrier and Laying of Cable Duct	60	0	60	017/08(6	04-Jan-22	18-Mar-22	26-Oct-21	06-Jan-22	-58		0%
PORIILUT.ST1270	Road Paving	80	0	80	017/08(6	18-Mar-22	28-Jun-22	07-Jan-22	14-Apr-22	-58		0%
Drainage Works		229	152	97	017/08(6	07-May-21 A	01-Apr-22	15-Dec-21	14-Apr-22	11		
PORIILUT.DRA2020	Construction of Drainage SMH011 to SMH010	45	130	0	017/08(6	07-May-21 A	12-Oct-21	15-Dec-21	15-Dec-21		0	100%
PORIILUT.DRA2030	Construction of Drainage SMH010 to SMH009	45	59	7	017/08(6	27-Aug-21 A	10-Dec-21	15-Dec-21	22-Dec-21	11	0	85%
PORIILUT.DRA2050	Laying of Watermains	45	0	45	017/08(6	10-Dec-21	08-Feb-22	23-Dec-21	19-Feb-22	11	0	0%
PORIILUT.DRA2060	Laying of Ducting for Power Cable	45	0	45	017/08(6	10-Dec-21	08-Feb-22	23-Dec-21	19-Feb-22	11		0%
PORIILUT.DRA2070	Road Paving	45	0	45	017/08(6	08-Feb-22	01-Apr-22	21-Feb-22	14-Apr-22	11		0%
Construction of Semi-Noise Enclosure (CH13482.1 to 13580.3), Sign Gantry and Directional Sign		133	0	133	017/08(6	07-Dec-21	25-May-22	29-Sep-21	14-Apr-22	-30		
PORIILUT.NB1020	Construction of Semi-Noise Enclosure CH13482.101 to 13576.309 Main Fra	75	0	75	017/08(6	07-Dec-21	11-Mar-22	29-Sep-21	29-Dec-21	-58	0	0%
PORIILUT.NB1030	Construction of Semi-Noise Enclosure CH13482.101 to 13576.309 Sub Frar	75	0	75	017/08(6	14-Dec-21	18-Mar-22	07-Oct-21	06-Jan-22	-58	0	0%
PORIILUT.NB1040	Excavation and Construction of Directional Sign Footing DS1	14	0	14	017/08(6	11-Mar-22	28-Mar-22	05-Feb-22	21-Feb-22	-30	0	0%
PORIILUT.NB1050	Backfilling to Formation Level	20	0	20	017/08(6	11-Mar-22	04-Apr-22	26-Feb-22	21-Mar-22	-12	0	0%
PORIILUT.NB1060	Installation of Directional Sign and Steel Frame	10	0	10	017/08(6	04-Apr-22	20-Apr-22	22-Mar-22	01-Apr-22	-12	0	0%
PORIILUT.NB1070	Excavation and Construction of Directional Sign Footing DS2	14	0	14	017/08(6	28-Mar-22	14-Apr-22	22-Feb-22	09-Mar-22	-30	0	0%
PORIILUT.NB1080	Backfilling to Formation Level	20	0	20	017/08(6	14-Apr-22	13-May-22	10-Mar-22	01-Apr-22	-30	0	0%
PORIILUT.NB1090	Installation of Directional Sign and Steel Frame	10	0	10	017/08(6	13-May-22	25-May-22	02-Apr-22	14-Apr-22	-30	0	0%
Tree Protection Works (Portion I, II and III)		88	70	0	017/08(6	02-May-19 A	25-Jul-19 A	14-Apr-22	14-Apr-22			
TP1020	Tree Transplant Works	88	70	0	017/08(6	02-May-19 A	25-Jul-19 A	14-Apr-22	14-Apr-22		0	100%
Modification of Seawall (Portion II and III)		857	868	67	017/08(6	01-Dec-18 A	27-Jan-22	23-Sep-21	30-Sep-23	495		
Weather Protection System		48	119	0	017/08(6	01-Dec-18 A	30-Apr-19	30-Sep-23	30-Sep-23			
SW1010	Site Trial for Weather Protection System	2	2	0	017/08(6	01-Dec-18 A	03-Dec-18	30-Sep-23	30-Sep-23		0	100%
SW1020	Installation of Temporary Wave Form Wall for Weather Protection (1st layer)	48	48	0	017/08(6	01-Feb-19 A	01-Apr-19	30-Sep-23	30-Sep-23		0	100%
SW1030	Installation of Temporary Wave Form Wall for Weather Protection (2nd layer)	14	21	0	017/08(6	02-Apr-19 A	30-Apr-19	30-Sep-23	30-Sep-23		0	100%
Seawall Modification Type 1		247	172	67	017/08(6	13-Apr-21 A	27-Jan-22	06-Nov-21	27-Jan-22	-1		
SW.WWI.1010	Break Concrete Copping for Bay 1	14	14	0	017/08(6	13-Apr-21 A	28-Apr-21	06-Nov-21	06-Nov-21			100%
SW.WWI.1020	Break Concrete Copping for Bay 2	14	14	0	017/08(6	16-Apr-21 A	03-May-21	06-Nov-21	06-Nov-21			100%
SW.WWI.1030	Break Concrete Copping for Bay 3	14	14	0	017/08(6	22-Apr-21 A	08-May-21	10-Nov-21	10-Nov-21			100%
SW.WWI.1040	Break Concrete Copping for Bay 4	14	14	0	017/08(6	19-Apr-21 A	05-May-21	10-Nov-21	10-Nov-21			100%
SW.WWI.1050	Break Concrete Copping for Bay 5	14	14	0	017/08(6	17-Apr-21 A	04-May-21	10-Nov-21	10-Nov-21			100%
SW.WWI.1060	Break Concrete Copping for Bay 6	14	14	0	017/08(6	26-Apr-21 A	12-May-21	10-Nov-21	10-Nov-21			100%
SW.WWI.1070	Break Concrete Copping for Bay 7	14	14	0	017/08(6	05-May-21 A	21-May-21	10-Nov-21	10-Nov-21			100%
SW.WWI.1080	Break Concrete Copping for Bay 8	14	14	0	017/08(6	14-May-21 A	31-May-21	10-Nov-21	10-Nov-21			100%
SW.WWI.1090	Break Concrete Copping for Bay 9	14	14	0	017/08(6	24-May-21 A	08-Jun-21	24-Nov-21	24-Nov-21			100%
SW.WWI.1100	Break Concrete Copping for Bay 10	14	0	14	017/08(6	08-Nov-21	23-Nov-21	03-Dec-21	20-Dec-21	23		0%
SW.WWI.1110	Construction of Seawall Modification Type I Bay 1 (1st Pour)	12	40	0	017/08(6	08-May-21 A	26-Jun-21 A	06-Nov-21	06-Nov-21			100%
SW.WWI.1111	Construction of Seawall Modification Type 1 Bay 1 (2nd Pour)	12	20	0	017/08(6	28-Jun-21 A	21-Jul-21 A	06-Nov-21	06-Nov-21			100%
SW.WWI.1112	Construction of Seawall Modification Type 1 Bay 1 (Coping)	6	36	6	017/08(6	24-Sep-21 A	13-Nov-21	13-Nov-21	20-Nov-21	6		0%
SW.WWI.1120	Construction of Seawall Modification Type I Bay 2 (1st Pour)	12	16	0	017/08(6	28-Jun-21 A	16-Jul-21 A	06-Nov-21	06-Nov-21			100%
SW.WWI.1121	Construction of Seawall Modification Type I Bay 2 (2nd Pour)	12	49	12	017/08(6	08-Sep-21 A	20-Nov-21	06-Nov-21	20-Nov-21	-1		0%



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

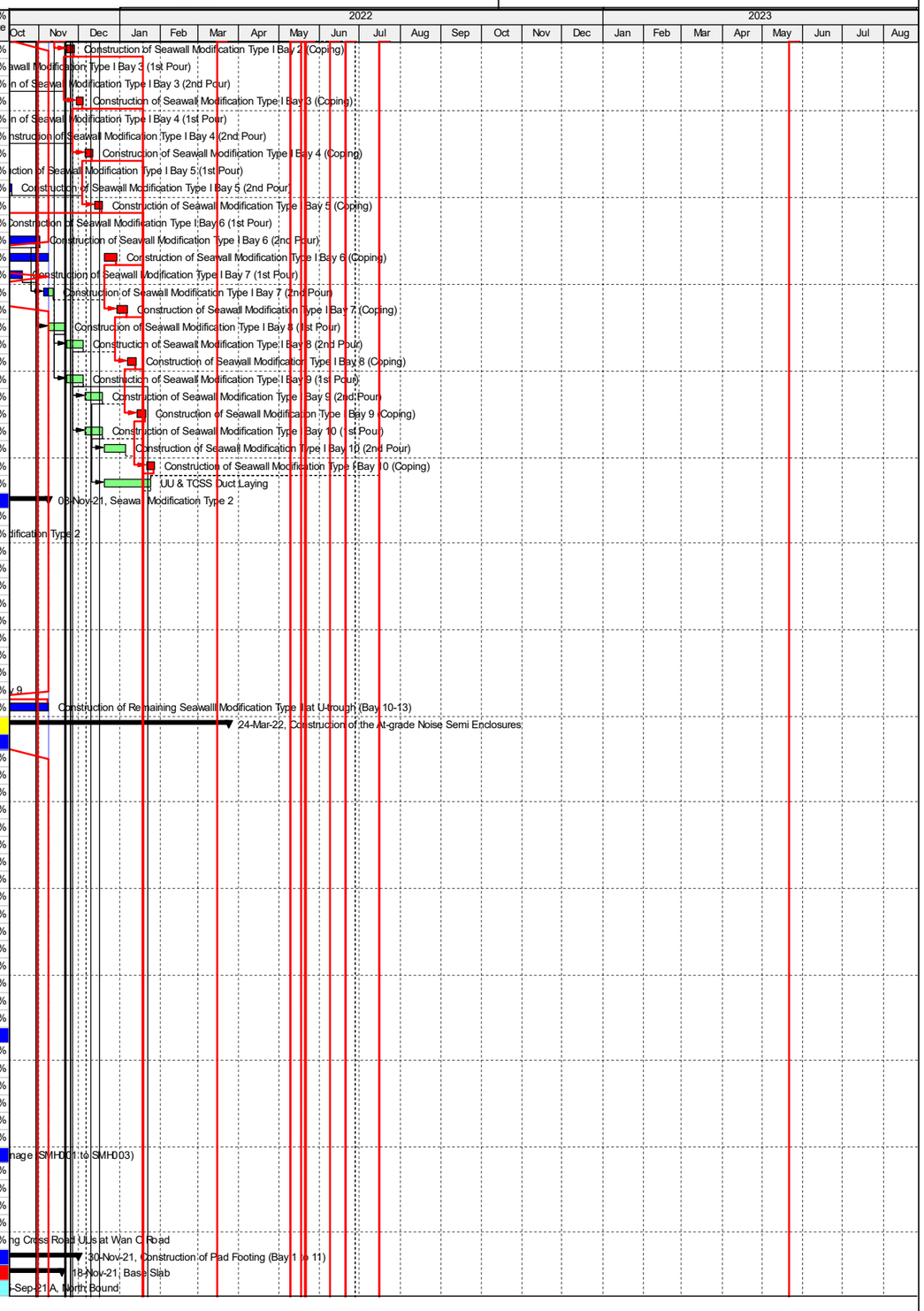
土木工程拓展署 Civil Engineering and Development Department

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthly Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
SW.WWIL1122	Construction of Seawall Modification Type I Bay 2 (Coping)	6	0	6	017/08(6	22-Nov-21	27-Nov-21	20-Nov-21	27-Nov-21	-1		0%
SW.WWIL1130	Construction of Seawall Modification Type I Bay 3 (1st Pour)	12	12	0	017/08(6	16-Jul-21 A	30-Jul-21 A	10-Nov-21	10-Nov-21			100%
SW.WWIL1131	Construction of Seawall Modification Type I Bay 3 (2nd Pour)	12	23	0	017/08(6	30-Jul-21 A	27-Aug-21	19-Nov-21	19-Nov-21			100%
SW.WWIL1132	Construction of Seawall Modification Type I Bay 3 (Coping)	6	0	6	017/08(6	29-Nov-21	04-Dec-21	27-Nov-21	04-Dec-21	-1		0%
SW.WWIL1140	Construction of Seawall Modification Type I Bay 4 (1st Pour)	12	23	0	017/08(6	30-Jul-21 A	27-Aug-21	10-Nov-21	10-Nov-21			100%
SW.WWIL1141	Construction of Seawall Modification Type I Bay 4 (2nd Pour)	12	19	0	017/08(6	31-Aug-21 A	23-Sep-21	19-Nov-21	19-Nov-21			100%
SW.WWIL1142	Construction of Seawall Modification Type I Bay 4 (Coping)	6	0	6	017/08(6	06-Dec-21	11-Dec-21	04-Dec-21	11-Dec-21	-1		0%
SW.WWIL1150	Construction of Seawall Modification Type I Bay 5 (1st Pour)	12	7	0	017/08(6	31-Aug-21 A	08-Sep-21	10-Nov-21	10-Nov-21			100%
SW.WWIL1151	Construction of Seawall Modification Type I Bay 5 (2nd Pour)	12	17	0	017/08(6	20-Sep-21 A	12-Oct-21	19-Nov-21	19-Nov-21			100%
SW.WWIL1152	Construction of Seawall Modification Type I Bay 5 (Coping)	6	0	6	017/08(6	13-Dec-21	18-Dec-21	11-Dec-21	18-Dec-21	-1		0%
SW.WWIL1160	Construction of Seawall Modification Type I Bay 6 (1st Pour)	12	17	0	017/08(6	09-Sep-21 A	30-Sep-21	10-Nov-21	10-Nov-21			100%
SW.WWIL1161	Construction of Seawall Modification Type I Bay 6 (2nd Pour)	12	24	0	017/08(6	04-Oct-21 A	02-Nov-21	19-Nov-21	19-Nov-21			100%
SW.WWIL1162	Construction of Seawall Modification Type I Bay 6 (Coping)	6	107	7	017/08(6	02-Jul-21 A	29-Dec-21	18-Dec-21	29-Dec-21	-1		0%
SW.WWIL1170	Construction of Seawall Modification Type I Bay 7 (1st Pour)	12	12	0	017/08(6	05-Oct-21 A	20-Oct-21	10-Nov-21	10-Nov-21			100%
SW.WWIL1171	Construction of Seawall Modification Type I Bay 7 (2nd Pour)	12	2	4	017/08(6	05-Nov-21 A	11-Nov-21	19-Nov-21	24-Nov-21	11		66.67%
SW.WWIL1172	Construction of Seawall Modification Type I Bay 7 (Coping)	6	0	6	017/08(6	30-Dec-21	06-Jan-22	29-Dec-21	06-Jan-22	-1		0%
SW.WWIL1180	Construction of Seawall Modification Type I Bay 8 (1st Pour)	12	0	12	017/08(6	08-Nov-21	20-Nov-21	10-Nov-21	24-Nov-21	3		0%
SW.WWIL1181	Construction of Seawall Modification Type I Bay 8 (2nd Pour)	12	0	12	017/08(6	22-Nov-21	04-Dec-21	24-Nov-21	08-Dec-21	3		0%
SW.WWIL1182	Construction of Seawall Modification Type I Bay 8 (Coping)	6	0	6	017/08(6	07-Jan-22	13-Jan-22	06-Jan-22	13-Jan-22	-1		0%
SW.WWIL1190	Construction of Seawall Modification Type I Bay 9 (1st Pour)	12	0	12	017/08(6	22-Nov-21	04-Dec-21	24-Nov-21	08-Dec-21	3		0%
SW.WWIL1191	Construction of Seawall Modification Type I Bay 9 (2nd Pour)	12	0	12	017/08(6	06-Dec-21	18-Dec-21	08-Dec-21	22-Dec-21	3		0%
SW.WWIL1192	Construction of Seawall Modification Type I Bay 9 (Coping)	6	0	6	017/08(6	14-Jan-22	20-Jan-22	13-Jan-22	20-Jan-22	-1		0%
SW.WWIL1200	Construction of Seawall Modification Type I Bay 10 (1st Pour)	12	0	12	017/08(6	06-Dec-21	18-Dec-21	20-Dec-21	06-Jan-22	13		0%
SW.WWIL1201	Construction of Seawall Modification Type I Bay 10 (2nd Pour)	12	0	12	017/08(6	20-Dec-21	05-Jan-22	06-Jan-22	20-Jan-22	13		0%
SW.WWIL1202	Construction of Seawall Modification Type I Bay 10 (Coping)	6	0	6	017/08(6	21-Jan-22	27-Jan-22	20-Jan-22	27-Jan-22	-1		0%
SW.WWIL1212	UU & TCSS Duct Laying	28	0	28	017/08(6	20-Dec-21	24-Jan-22	22-Dec-21	27-Jan-22	3		0%
Seawall Modification Type 2		160	308	0	017/08(6	23-Oct-20 A	08-Nov-21	23-Sep-21	23-Sep-21	-36		
SW.WWIL1010	Starter Bar Construction on Seawall Coping for Seawall Modification Type 2	60	60	0	017/08(6	23-Oct-20 A	05-Jan-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1020	Installation of Steel Bracket at Seawall Coping for Construction of Seawall M	45	45	0	017/08(6	20-Nov-20 A	14-Jan-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1030	Construction of Seawall Modification Type II Bay 1	10	36	0	017/08(6	22-Dec-20 A	04-Feb-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1040	Construction of Seawall Modification Type II Bay 2	10	36	0	017/08(6	22-Dec-20 A	04-Feb-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1050	Construction of Seawall Modification Type II Bay 3	10	54	0	017/08(6	22-Dec-20 A	01-Mar-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1060	Construction of Seawall Modification Type II Bay 4	10	41	0	017/08(6	22-Dec-20 A	10-Feb-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1070	Construction of Seawall Modification Type II Bay 5	10	29	0	017/08(6	22-Dec-20 A	27-Jan-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1080	Construction of Seawall Modification Type II Bay 6	10	10	0	017/08(6	24-Feb-21 A	06-Mar-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1090	Construction of Seawall Modification Type II Bay 7	10	10	0	017/08(6	09-Mar-21 A	19-Mar-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1100	Construction of Seawall Modification Type II Bay 8	10	10	0	017/08(6	01-Apr-21 A	16-Apr-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1110	Construction of Seawall Modification Type II Bay 9	10	10	0	017/08(6	17-Apr-21 A	28-Apr-21	23-Sep-21	23-Sep-21			100%
SW.WWIL1120	Construction of Remaining Seawall Modification Type II at U-trough (Bay 10-	10	158	0	017/08(6	29-Apr-21 A	08-Nov-21	23-Sep-21	23-Sep-21	-36		100%
Construction of the At-grade Noise Semi Enclosures		779	667	112		09-Aug-19 A	24-Mar-22	27-Sep-21	30-Sep-23	450		
Construction of Northern Drainage (SMH003 to SMH008)		300	294	0	017/08(6	09-Aug-19 A	05-Aug-20	27-Sep-21	15-Dec-21			
PORIII.AG.1010	Excavation from +5.5mPD to +3.5mPD for SMH003 to SMH007 (inlcude Der	30	81	0	017/08(6	09-Aug-19 A	14-Nov-19	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1015	Road Diversion at XYZ Junction	10	10	0	017/08(6	14-Oct-19 A	24-Oct-19	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1020	Excavation of Drainage Trench (maximum up to +2.0mPD) for SMH003 to SI	7	48	0	017/08(6	12-Sep-19 A	10-Nov-19	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1030	Manhole Construction for SMH003 to SMH006 (14D/manhole, 2 teams)	28	36	0	017/08(6	16-Sep-19 A	29-Oct-19	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1035	Laying of Drainage Pipe SMH003 to SMH006	14	21	0	017/08(6	23-Oct-19 A	15-Nov-19	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1040	Backfilling of Drainage Trench for SMH003 to SMH006	14	21	0	017/08(6	23-Oct-19 A	15-Nov-19	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1042	Manhole Construction for SMH007 (14D/manhole)	14	7	0	017/08(6	14-Nov-19 A	21-Nov-19	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1044	Laying of Drainage Pipe SMH006 to SMH007	7	6	0	017/08(6	22-Nov-19 A	28-Nov-19	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1046	Backfilling of Drainage Trench for SMH006 to SMH007	14	6	0	017/08(6	22-Nov-19 A	28-Nov-19	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1047	Confirmation of Location of Manhole and Drainage Alignment	30	101	0	017/08(6	29-Nov-19 A	01-Apr-20	15-Dec-21	15-Dec-21	0		100%
PORIII.AG.1048	Sheet Piles Installation SMH008 Construction (~20m length)	3	6	0	017/08(6	26-Jun-20 A	03-Jul-20	15-Dec-21	15-Dec-21	0		100%
PORIII.AG.1048-01	Excavation to Formation Level for SMH008 Construction	3	3	0	017/08(6	04-Jul-20 A	07-Jul-20	15-Dec-21	15-Dec-21	0		100%
PORIII.AG.1048-02	Manhole Construction for SMH008 (14D/manhole)	14	16	0	017/08(6	08-Jul-20 A	25-Jul-20	15-Dec-21	15-Dec-21	0		100%
PORIII.AG.1048-03	Laying of Drainage Pipe SMH007 to SMH008	5	5	0	017/08(6	15-Jul-20 A	20-Jul-20	15-Dec-21	15-Dec-21	0		100%
PORIII.AG.1048-04	Backfilling of Drainage Trench for SMH007 to SMH008	10	4	0	017/08(6	01-Aug-20 A	05-Aug-20	15-Dec-21	15-Dec-21	0		100%
PORIII.AG.1050	Plate Load Test	7	5	0	017/08(6	05-Nov-19 A	09-Nov-19	27-Sep-21	27-Sep-21	0		100%
Construction of Southern Drainage (SMH201 to SMH202)		66	59	0		01-Feb-20 A	14-Apr-20	27-Sep-21	27-Sep-21			
PORIII.AG.1160-00	Home Quarantine due to Wuhan Pneumonia (NCE083)	14	14	0	017/08(7	01-Feb-20 A	14-Feb-20	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1160-01	Excavation for Construction of Manhole and Pipe Laying between SMH201 t	5	6	0	017/08(6	15-Feb-20 A	21-Feb-20	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1160-02	Manhole Construction and Pipe Laying between SMH201 to SMH202	14	25	0	017/08(6	22-Feb-20 A	21-Mar-20	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1160-020	Utilities Ducts Laying across Road D9 (South Portion)	20	1	0	017/08(6	26-Mar-20 A	26-Mar-20	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1160-03	Backfilling to Interim Formation Level (+5.5mPD)	15	7	0	017/08(6	24-Mar-20 A	31-Mar-20	27-Sep-21	27-Sep-21	0		100%
PORIII.AG.1200	Shifting of Site Vehicle Access to Seawall Side	7	8	0	017/08(6	01-Apr-20 A	14-Apr-20	27-Sep-21	27-Sep-21	0		100%
Construction of Northern Drainage (SMH001 to SMH003)		308	308	0	017/08(6	27-Apr-20 A	11-May-21	06-Nov-21	30-Sep-23			
PORIII.AG.1080	Excavation from +5.5mPD to +3.5mPD (inlcude Demolition of existing manh	10	16	0	017/08(6	27-Apr-20 A	16-May-20	06-Nov-21	06-Nov-21	0		100%
PORIII.AG.1090	Excavation of Drainage Trench (maximum up to +2.0mPD) for SMH001 to SI	7	2	0	017/08(6	18-May-20 A	19-May-20	06-Nov-21	06-Nov-21	0		100%
PORIII.AG.1100	Manhole Construction and pipe laying for SMH001 to SMH003 and Backfillin	30	24	0	017/08(6	21-May-20 A	17-Jun-20	06-Nov-21	06-Nov-21	0		100%
PORIII.AG.1102	Utilities Ducts Laying across Road D9 (Northern Portion)	32	53	0	017/08(6	26-Nov-20 A	29-Jan-21	30-Sep-23	30-Sep-23	0		100%
PORIII.AG.2000	Cable Laying and Decomissioning of Existing Cross Road UUs at Wan O Ro	50	50	0	017/08(6	09-Mar-21 A	11-May-21	30-Sep-23	30-Sep-23	0		100%
Construction of Pad Footing (Bay 1 to 11)		612	585	20		14-Nov-19 A	30-Nov-21	27-Sep-21	15-Dec-21	13		
Base Slab		597	578	10		14-Nov-19 A	18-Nov-21	27-Sep-21	15-Dec-21	23		
North Bound		554	553	0	017/08(6	14-Nov-19 A	25-Sep-21	27-Sep-21	15-Dec-21			



Actual Level of Effort
Actual Work
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土木工程拓展署
Civil Engineering and Development Department

Contract No.: NE/2017/08
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Road D9 and Associated Works

Build King

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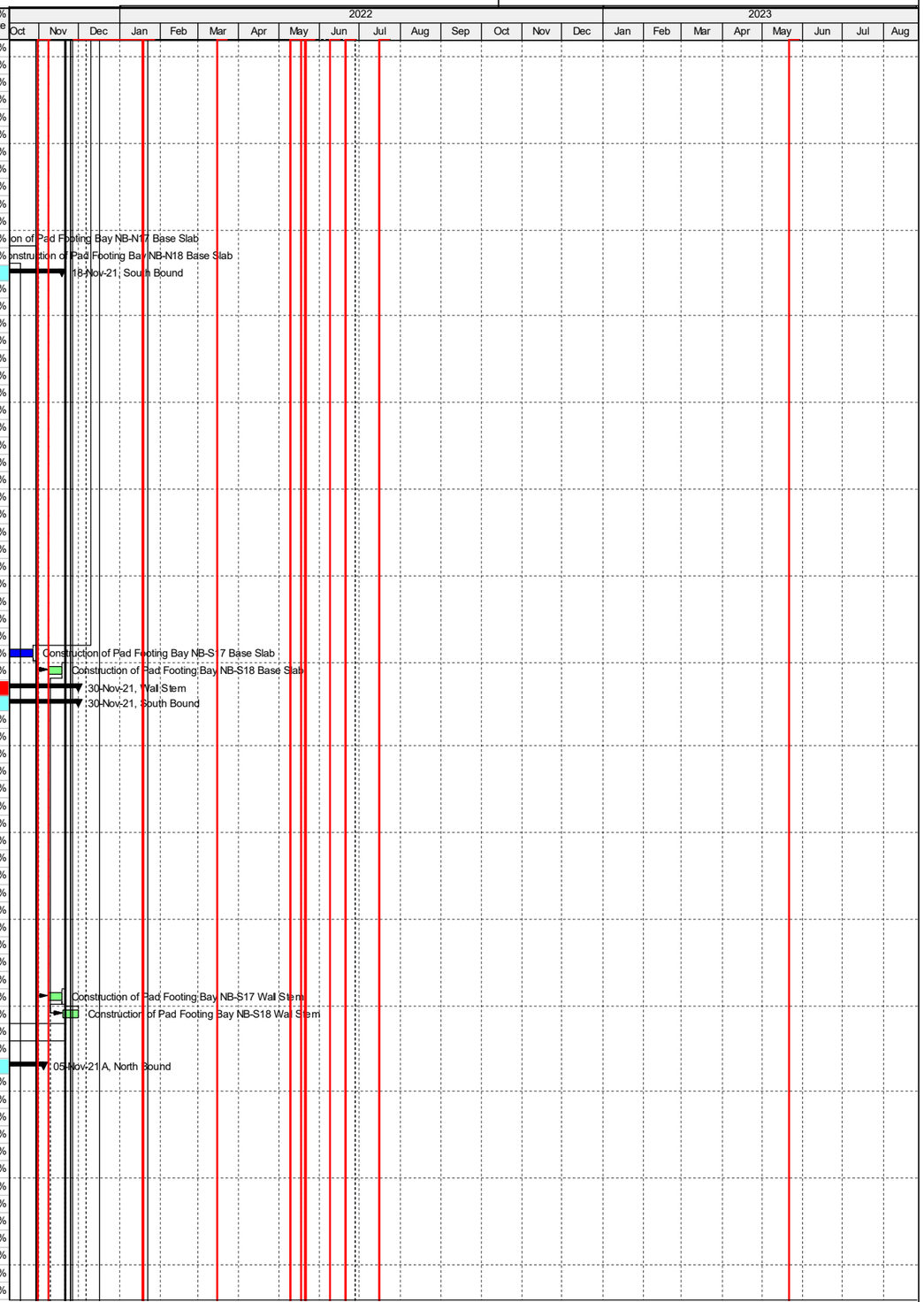
Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
PORIII.AG.1060-00	Construction of Blinding for Bay NB-N1 to N11	10	10	0	017/08(6	14-Nov-19 A	25-Nov-19	27-Sep-21	27-Sep-21		0	100%
PORIII.AG.1060-01	Construction of Pad Footing Bay NB-N7, 9, 11 Base Slab	15	19	0	017/08(6	26-Nov-19 A	17-Dec-19	27-Sep-21	27-Sep-21		0	100%
PORIII.AG.1060-04	Construction of Pad Footing Bay NB-N5, 8, 10 Base Slab	15	16	0	017/08(6	06-Dec-19 A	24-Dec-19	27-Sep-21	27-Sep-21		0	100%
PORIII.AG.1060-10	Construction of Pad Footing Bay NB-N3, 6 Base Slab	15	10	0	017/08(6	27-Dec-19 A	08-Jan-20	27-Sep-21	27-Sep-21		0	100%
PORIII.AG.1060-11	Construction of Pad Footing Bay NB-N2, 4 Base Slab	15	13	0	017/08(6	02-Jan-20 A	16-Jan-20	27-Sep-21	27-Sep-21		0	100%
PORIII.AG.1290	Construction of Pad Footing Bay NB-N1 Base Slab	10	7	0	017/08(6	02-Mar-20 A	09-Mar-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1410	Construction of Pad Footing Bay NB-N12 Base Slab	10	11	0	017/08(6	06-Jun-20 A	18-Jun-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1420	Construction of Pad Footing Bay NB-N13 Base Slab	10	8	0	017/08(6	19-Jun-20 A	29-Jun-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1430	Construction of Pad Footing Bay NB-N14 Base Slab	10	7	0	017/08(6	11-Jun-20 A	18-Jun-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1440	Construction of Pad Footing Bay NB-N15 Base Slab	10	13	0	017/08(6	20-Jun-20 A	07-Jul-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1450	Construction of Pad Footing Bay NB-N16 Base Slab	10	29	0	017/08(6	09-Jul-20 A	11-Aug-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1460	Construction of Pad Footing Bay NB-N17 Base Slab	12	49	0	017/08(6	05-Jul-21 A	31-Aug-21	27-Sep-21	27-Sep-21		0	100%
PORIII.AG.1470	Construction of Pad Footing Bay NB-N18 Base Slab	12	11	0	017/08(6	13-Sep-21 A	25-Sep-21	11-Dec-21	11-Dec-21		0	100%
South Bound		535	516	10		01-Feb-20 A	18-Nov-21	27-Sep-21	03-Dec-21	13		
PORIII.AG.1060-110	Excavation for Construction of Bay NB-N1, NB-S1-S6	10	9	0	017/08(6	10-Feb-20 A	19-Feb-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1060-111	Home Quarantine due to Wuhan Pneumonia (NCE083)	14	14	0	017/08(7	01-Feb-20 A	14-Feb-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1060-112	Plate Loading Test for NB-S1-S6	7	5	0	017/08(6	20-Feb-20 A	25-Feb-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1060-113	Construction of Blinding for Bay NB-S1-S6	10	4	0	017/08(6	26-Feb-20 A	29-Feb-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1060-12	Construction of Pad Footing Bay NB-S1, S3 Base Slab	15	8	0	017/08(6	29-Feb-20 A	09-Mar-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1300	Construction of Pad Footing Bay NB-S2 Base Slab	10	6	0	017/08(6	10-Mar-20 A	16-Mar-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1310	Construction of Pad Footing Bay NB-S4 Base Slab	10	6	0	017/08(6	10-Mar-20 A	16-Mar-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1320	Construction of Pad Footing Bay NB-S6 Base Slab	10	5	0	017/08(6	11-Mar-20 A	16-Mar-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1330	Excavation for Construction of Bay NB-S7-S11	5	10	0	017/08(6	17-Mar-20 A	27-Mar-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1340	Construction of Blinding for Bay NB-S7-S10	5	1	0	017/08(6	28-Mar-20 A	28-Mar-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1350	Construction of Pad Footing Bay NB-S5 Base Slab	10	19	0	017/08(6	19-Mar-20 A	14-Apr-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1360	Construction of Pad Footing Bay NB-S7 Base Slab	10	6	0	017/08(6	03-Apr-20 A	14-Apr-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1370	Construction of Pad Footing Bay NB-S8 Base Slab	10	10	0	017/08(6	16-Apr-20 A	27-Apr-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1380	Construction of Pad Footing Bay NB-S9 Base Slab	10	10	0	017/08(6	28-Apr-20 A	11-May-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1390	Construction of Pad Footing Bay NB-S10 Base Slab	10	10	0	017/08(6	19-May-20 A	29-May-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1400	Construction of Pad Footing Bay NB-S11 Base Slab	10	10	0	017/08(6	30-May-20 A	10-Jun-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1480	Construction of Pad Footing Bay NB-S12 Base Slab	10	8	0	017/08(6	19-Jun-20 A	29-Jun-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1490	Construction of Pad Footing Bay NB-S13 Base Slab	10	6	0	017/08(6	30-Jun-20 A	07-Jul-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1500	Construction of Pad Footing Bay NB-S14 Base Slab	10	7	0	017/08(6	08-Jul-20 A	15-Jul-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1510	Construction of Pad Footing Bay NB-S15 Base Slab	10	8	0	017/08(6	14-Sep-20 A	22-Sep-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1520	Construction of Pad Footing Bay NB-S16 Base Slab	10	9	0	017/08(6	02-Sep-20 A	11-Sep-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1530	Construction of Pad Footing Bay NB-S17 Base Slab	10	98	0	017/08(6	02-Jul-21 A	27-Oct-21	27-Sep-21	27-Sep-21		0	100%
PORIII.AG.1540	Construction of Pad Footing Bay NB-S18 Base Slab	10	0	10	017/08(6	08-Nov-21	18-Nov-21	23-Nov-21	03-Dec-21	13	0	0%
Wall Stem		512	485	20	017/08(6	17-Mar-20 A	30-Nov-21	20-Oct-21	15-Dec-21	13		
South Bound		505	205	20	017/08(6	19-Mar-20 A	30-Nov-21	06-Nov-21	15-Dec-21	13		
PORIII.AG.1550	Construction of Pad Footing Bay NB-S1 Wall Stem	10	23	0	017/08(6	19-Mar-20 A	18-Apr-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1560	Construction of Pad Footing Bay NB-S2 Wall Stem	10	36	0	017/08(6	24-Mar-20 A	11-May-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1570	Construction of Pad Footing Bay NB-S3 Wall Stem	10	29	0	017/08(6	20-Mar-20 A	27-Apr-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1580	Construction of Pad Footing Bay NB-S4 Wall Stem	10	52	0	017/08(6	24-Mar-20 A	29-May-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1590	Construction of Pad Footing Bay NB-S5 Wall Stem	10	14	0	017/08(6	12-Jun-20 A	29-Jun-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1600	Construction of Pad Footing Bay NB-S6 Wall Stem	10	23	0	017/08(6	15-May-20 A	10-Jun-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1610	Construction of Pad Footing Bay NB-S7 Wall Stem	10	47	0	017/08(6	20-May-20 A	15-Jul-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1620	Construction of Pad Footing Bay NB-S8 Wall Stem	10	27	0	017/08(6	19-May-20 A	18-Jun-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1630	Construction of Pad Footing Bay NB-S9 Wall Stem	10	54	0	017/08(6	20-May-20 A	23-Jul-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1640	Construction of Pad Footing Bay NB-S10 Wall Stem	10	24	0	017/08(6	01-Jun-20 A	29-Jun-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1650	Construction of Pad Footing Bay NB-S11 Wall Stem	10	27	0	017/08(6	30-Jun-20 A	31-Jul-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1660	Construction of Pad Footing Bay NB-S12 Wall Stem	10	21	0	017/08(6	18-Jul-20 A	11-Aug-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1670	Construction of Pad Footing Bay NB-S13 Wall Stem	10	9	0	017/08(6	14-Jul-20 A	23-Jul-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1680	Construction of Pad Footing Bay NB-S14 Wall Stem	10	7	0	017/08(6	24-Jul-20 A	31-Jul-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1690	Construction of Pad Footing Bay NB-S15 Wall Stem	10	7	0	017/08(6	29-Sep-20 A	08-Oct-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1700	Construction of Pad Footing Bay NB-S16 Wall Stem	10	12	0	017/08(6	15-Sep-20 A	28-Sep-20	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1710	Construction of Pad Footing Bay NB-S17 Wall Stem	10	0	10	017/08(6	08-Nov-21	18-Nov-21	23-Nov-21	03-Dec-21	13	0	0%
PORIII.AG.1720	Construction of Pad Footing Bay NB-S18 Wall Stem	10	0	10	017/08(6	19-Nov-21	30-Nov-21	04-Dec-21	15-Dec-21	13	0	0%
PORIII.AG.1910	Backfilling to Interim Formation Level (7 Layers, 5D/layer) for Bay 1 to 11	35	35	0	017/08(6	17-Jun-20 A	29-Jul-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1920	Backfilling to Interim Formation Level (7 Layers, 5D/layer) for Bay 12 to 16	35	35	0	017/08(6	15-Oct-20 A	25-Nov-20	15-Dec-21	15-Dec-21		0	100%
North Bound		512	485	0	017/08(6	17-Mar-20 A	05-Nov-21	20-Oct-21	15-Dec-21			
PORIII.AG.1730	Construction of Pad Footing Bay NB-N1 Wall Stem	10	25	0	017/08(6	17-Mar-20 A	18-Apr-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1740	Construction of Pad Footing Bay NB-N2 Wall Stem	10	30	0	017/08(6	31-Mar-20 A	11-May-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1750	Construction of Pad Footing Bay NB-N3 Wall Stem	10	32	0	017/08(6	17-Mar-20 A	27-Apr-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1760	Construction of Pad Footing Bay NB-N4 Wall Stem	10	46	0	017/08(6	31-Mar-20 A	29-May-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1770	Construction of Pad Footing Bay NB-N5 Wall Stem	10	77	0	017/08(6	31-Mar-20 A	07-Jul-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1780	Construction of Pad Footing Bay NB-N6 Wall Stem	10	56	0	017/08(6	31-Mar-20 A	10-Jun-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1790	Construction of Pad Footing Bay NB-N7 Wall Stem	10	84	0	017/08(6	31-Mar-20 A	15-Jul-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1800	Construction of Pad Footing Bay NB-N8 Wall Stem	10	132	0	017/08(6	02-Apr-20 A	11-Sep-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1810	Construction of Pad Footing Bay NB-N9 Wall Stem	10	89	0	017/08(6	02-Apr-20 A	23-Jul-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1820	Construction of Pad Footing Bay NB-N10 Wall Stem	10	118	0	017/08(6	02-Apr-20 A	26-Aug-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1830	Construction of Pad Footing Bay NB-N11 Wall Stem	10	96	0	017/08(6	02-Apr-20 A	31-Jul-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1840	Construction of Pad Footing Bay NB-N12 Wall Stem	10	36	0	017/08(6	16-Jul-20 A	26-Aug-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1850	Construction of Pad Footing Bay NB-N13 Wall Stem	10	23	0	017/08(6	16-Jul-20 A	11-Aug-20	15-Dec-21	15-Dec-21		0	100%



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

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

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthy Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
PORIII.AG.1860	Construction of Pad Footing Bay NB-N14 Wal Stem	10	50	0	017/08(6	16-Jul-20 A	11-Sep-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1870	Construction of Pad Footing Bay NB-N15 Wal Stem	10	36	0	017/08(6	16-Jul-20 A	26-Aug-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1880	Construction of Pad Footing Bay NB-N16 Wal Stem	10	9	0	017/08(6	02-Sep-20 A	11-Sep-20	15-Dec-21	15-Dec-21		0	100%
PORIII.AG.1890	Construction of Pad Footing Bay NB-N17 Wal Stem	14	14	0	017/08(6	11-Oct-21 A	27-Oct-21	20-Oct-21	20-Oct-21		0	100%
PORIII.AG.1900	Construction of Pad Footing Bay NB-N18 Wal Stem	10	7	0	017/08(6	28-Oct-21 A	05-Nov-21	11-Dec-21	11-Dec-21		0	100%
Construction of Remaining South Drainage (SMH203 to SMH216)		112	0	112	017/08(6	08-Nov-21	24-Mar-22	08-Dec-21	24-Mar-22	-1		
PORIII.AG.1170	Construction of South Drainage SMH203 to SMH206	40	0	40	017/08(6	08-Nov-21	23-Dec-21	23-Dec-21	14-Feb-22	39	0	0%
PORIII.AG.1171	Construction of South Drainage SMH207 to SMH216	65	0	65	017/08(6	08-Nov-21	25-Jan-22	08-Dec-21	01-Mar-22	27		0%
PORIII.AG.1180	Construction of Roadworks	45	0	45	017/08(6	28-Jan-22	24-Mar-22	27-Jan-22	24-Mar-22	-1	0	0%
Construction of Semi-Noise Enclosure and Directional Sign		355	265	66	017/08(6	14-Dec-20 A	26-Feb-22	06-Nov-21	14-Apr-22	39		
PORIII.AG.1190	Construction of Semi-Noise Enclosure CH13635.3 to CH13878 Main Frame	75	199	0	017/08(6	08-Mar-21 A	07-Dec-21	10-Jan-22	10-Jan-22	27	0	100%
PORIII.AG.1210	Construction of Semi-Noise Enclosure CH13635.3 to CH13878 Sub-frame a	60	69	15	017/08(6	16-Aug-21 A	23-Dec-21	10-Jan-22	27-Jan-22	27	0	75%
PORIII.AG.1235	Diversion of Haul Road	14	21	0	017/08(6	14-Dec-20 A	09-Jan-21	06-Nov-21	06-Nov-21		0	100%
PORIII.AG.1240	Excavation and Construction of Directional Sign Footing DS3	14	14	0	017/08(6	22-May-21 A	07-Jun-21	15-Feb-22	15-Feb-22		0	100%
PORIII.AG.1250	Backfilling to Formation Level	20	20	0	017/08(6	08-Jun-21 A	02-Jul-21	15-Feb-22	15-Feb-22		0	100%
PORIII.AG.1260	Installation of Directional Sign and Steel Frame	10	106	6	017/08(6	03-Jul-21 A	03-Jan-22	15-Feb-22	21-Feb-22	39	0	40%
PORIII.AG.2010	Excavation and Construction of Directional Sign Footing DS7	14	0	14	017/08(6	04-Jan-22	19-Jan-22	22-Feb-22	09-Mar-22	39	0	0%
PORIII.AG.2020	Backfilling to Formation Level	20	0	20	017/08(6	20-Jan-22	15-Feb-22	10-Mar-22	01-Apr-22	39	0	0%
PORIII.AG.2021	Civil Provision for At-Grade Road South	30	0	30	017/08(6	06-Dec-21	12-Jan-22	20-Dec-21	27-Jan-22	13		0%
PORIII.AG.2030	Installation of Directional Sign and Steel Frame	10	0	10	017/08(6	16-Feb-22	26-Feb-22	02-Apr-22	14-Apr-22	39	0	0%
Wan O Road		898	735	163		20-May-19 A	30-May-22	27-Aug-21	30-Sep-23	399		
Footpath Excavation Permit		65	63	0		20-May-19 A	02-Aug-19	27-Aug-21	27-Sep-21			
Footpath North Bound		63	63	0	017/08(6	20-May-19 A	02-Aug-19	27-Aug-21	27-Aug-21			
TTA Phase 1 (TTA DWG: Q1004/WAOR/002A)		21	17	0	017/08(6	20-May-19 A	08-Jun-19	27-Aug-21	27-Aug-21			
TTA Phase 2 (TTA DWG: Q1004/WAOR/007A)		42	42	0	017/08(6	10-Jun-19 A	29-Jul-19	27-Aug-21	27-Aug-21			
TTA Phase 3 (TTA DWG: Q1004/WAOR/001A)		15	15	0	017/08(6	17-Jul-19 A	02-Aug-19	27-Aug-21	27-Aug-21			
Footpath South Bound		58	58	0	017/08(6	20-May-19 A	27-Jul-19	27-Aug-21	27-Aug-21			
TTA Phase 1 (TTA DWG: Q1004/WAOR/011)		16	14	0	017/08(6	20-May-19 A	04-Jun-19	27-Aug-21	27-Aug-21			
TTA Phase 2 (TTA DWG: Q1004/WAOR/004A)		15	16	0	017/08(6	05-Jun-19 A	24-Jun-19	27-Aug-21	27-Aug-21			
TTA Phase 3 (TTA DWG: Q1004/WAOR/012)		15	12	0	017/08(6	25-Jun-19 A	09-Jul-19	27-Aug-21	27-Aug-21			
TTA Phase 4 (TTA DWG: Q1004/WAOR/005)		16	16	0	017/08(6	10-Jul-19 A	27-Jul-19	27-Aug-21	27-Aug-21			
Other Works		21	18	0	017/08(7	16-Jul-19 A	02-Aug-19	27-Sep-21	27-Sep-21			
Carriage Way Excavation Permit		832	669	163		07-Aug-19 A	30-May-22	27-Aug-21	30-Sep-23	399		
TTA Stage 1		186	436	0		07-Aug-19 A	22-Jan-21	27-Aug-21	30-Sep-23			
TTA Stage 2		745	582	163		20-Nov-19 A	30-May-22	27-Aug-21	30-Sep-23	399		
WO.CA.TTA2010	Implementation of TTA Stage 2	1	1	0	017/08(7	05-Jan-20 A	05-Jan-20	27-Aug-21	27-Aug-21		0	100%
Northern Portion		686	563	123		12-Dec-19 A	07-Apr-22	27-Aug-21	30-Sep-23	439		
Predrilling Works (4nos, 10D/hole + 5D TRA, 1-3 rigs)		36	27	0	017/08(6	02-Mar-20 A	01-Apr-20	27-Aug-21	30-Sep-23			
WO.CA.TTA2NP.	Inspection Pit for Predrilling Works at Northern Roundabout	4	4	0	017/08(6	11-Mar-20 A	14-Mar-20	27-Aug-21	27-Aug-21		0	100%
WO.CA.TTA2NP.	Predrilling at Northern Roundabout of Wan O Road (PD80) (Rig5)	15	8	0	017/08(6	02-Mar-20 A	10-Mar-20	30-Sep-23	30-Sep-23		5	100%
WO.CA.TTA2NP.	Predrilling at Northern Roundabout of Wan O Road (PD77) (Rig5)	15	6	0	017/08(6	11-Mar-20 A	17-Mar-20	30-Sep-23	30-Sep-23		5	100%
WO.CA.TTA2NP.	Demobilization of Rig 5 off site	1	1	0	017/08(6	18-Mar-20 A	18-Mar-20	30-Sep-23	30-Sep-23		0	100%
WO.CA.TTA2NP.	Predrilling at Northern Roundabout of Wan O Road (PD76) (Rig3)	15	7	0	017/08(6	25-Mar-20 A	01-Apr-20	27-Aug-21	27-Aug-21		5	100%
PBSH Works		245	297	0		12-Dec-19 A	11-Dec-20	27-Sep-21	08-Oct-21			
WO.CA.TTA2NP.	Liasion with CLP and Shifting of CLP cables at Wan O Road Northern Footp	4	138	0	017/08(7	12-Dec-19 A	27-Apr-20	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2NP.	Late Delivery of H-pile due to COVID-19 (NCE083)	30	81	0	017/08(7	29-Jan-20 A	18-Apr-20	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2NP.	Review Design on PC60-64 (PMI044)	4	56	0	017/08(6	04-Mar-20 A	14-May-20	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2NP.	Discovery of Uncharted CLP Concrete Surround, Liasion with CLP and Revie	30	94	0	017/08(6	11-Jun-20 A	30-Sep-20	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2NP.	Construction of PBSH (23nos, Rig 2) (PC60, 61, 63-65)	76	199	0	017/08(6	15-Apr-20 A	10-Dec-20	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2NP.	Review Design on PC57 & PC58 (PMI048)	60	50	0	017/08(6	11-Mar-20 A	14-May-20	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2NP.	Construction of PBSH (7nos, Rig 2) (PC57-58)	30	76	0	017/08(6	04-Sep-20 A	04-Dec-20	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2NP.	Construction of PBSH (8nos, Rig 1) (PC66-69)	31	168	0	017/08(6	12-May-20 A	28-Nov-20	08-Oct-21	08-Oct-21		0	100%
WO.CA.TTA2NP.	Construction of PBSH (8nos, Rig 1) (PC70-72)	46	90	0	017/08(6	29-Apr-20 A	15-Aug-20	08-Oct-21	08-Oct-21		0	100%
WO.CA.TTA2NP.	Construction of PBSH (14nos, Rig 1) (PC66-PC72)	60	118	0	017/08(6	24-Jul-20 A	11-Dec-20	08-Oct-21	08-Oct-21		0	100%
Excavation and Construction of RC Structure		157	252	4	017/08(6	31-Dec-20 A	11-Nov-21	27-Sep-21	12-Oct-21	-25		
WO.CA.TTA2NP.	Installation of Sheet pile at PC58	12	4	0	017/08(6	31-Dec-20 A	06-Jan-21	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2NP.	Installation of Struts and Excavation to Pile Cap Level at PC58	13	7	0	017/08(6	09-Mar-21 A	17-Mar-21	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2NP.	Construction of Pile Cap PC58	14	46	0	017/08(6	09-Mar-21 A	07-May-21	27-Sep-21	27-Sep-21			100%
WO.CA.TTA2NP.	Backfill & removal of Waling, Strut & Sheet Pile for PC58	20	20	0	017/08(6	22-May-21 A	16-Jun-21	27-Sep-21	27-Sep-21			100%
WO.CA.TTA2NP.	Diversion of MOE	3	3	0	017/08(6	16-Jun-21 A	19-Jun-21	27-Sep-21	27-Sep-21			100%
WO.CA.TTA2NP.	Concrete Block Installation as Lateral Support on top of Box Culvert	25	25	0	017/08(6	09-Mar-21 A	10-Apr-21	08-Oct-21	08-Oct-21		0	100%
WO.CA.TTA2NP.	Construction of ELS (PC60-PC72)	120	124	0	017/08(6	15-Mar-21 A	16-Aug-21	08-Oct-21	08-Oct-21		0	100%
WO.CA.TTA2NP.	Construction of Pile Caps (PC60-PC72, 14D/cap, 3teams)	90	151	4	017/08(6	08-May-21 A	11-Nov-21	08-Oct-21	12-Oct-21	-25	0	95.56%
Remaining Works		119	0	119	017/08(6	12-Nov-21	07-Apr-22	13-Oct-21	14-Apr-22	6		
WO.CA.TTA2NP.	Construction of Road and Drains (include backfilling to formation level)	45	0	45	017/08(6	29-Nov-21	22-Jan-22	20-Oct-21	10-Dec-21	-34	0	0%
WO.CA.TTA2NP.	Removal of Sheet Piles (PC60-PC72)	11	0	11	017/08(6	12-Nov-21	24-Nov-21	13-Oct-21	26-Oct-21	-25	0	0%
WO.CA.TTA2NP.	Construction of Watermains, Irrigation, Power Cable Ducting, Civil Provision c	75	0	75	017/08(6	25-Nov-21	26-Feb-22	14-Dec-21	18-Mar-22	17	0	0%
WO.CA.TTA2NP.	Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Main Fram	45	0	45	017/08(6	30-Nov-21	24-Jan-22	05-Jan-22	02-Mar-22	29	0	0%
WO.CA.TTA2NP.	Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Sub-Frame	45	0	45	017/08(6	16-Dec-21	12-Feb-22	21-Jan-22	18-Mar-22	29	0	0%
WO.CA.TTA2NP.	Construction of Road Kerb, Road Paving and Road Marking at Northern Car	30	0	30	017/08(6	24-Jan-22	02-Mar-22	11-Dec-21	18-Jan-22	-34	0	0%
WO.CA.TTA2NP.	Construction of Road Paving, Traffic Sign, Street Lighting	30	0	30	017/08(6	03-Mar-22	07-Apr-22	19-Jan-22	25-Feb-22	-34	0	0%
WO.CA.TTA2NP.	Make Good of Carriage Way and Road Marking	14	0	14	017/08(6	14-Feb-22	01-Mar-22	29-Mar-22	14-Apr-22	37		0%
Southern Portion and Central Barrier		745	582	163		20-Nov-19 A	30-May-22	27-Aug-21	30-Sep-23	399		
Predrilling Works (16nos, 10D/hole + 5D TRA, 1-3 rigs)		133	125	0		20-Nov-19 A	24-Apr-20	27-Aug-21	30-Sep-23			
WO.CA.TTA2SP.	Set Back Existing Kerb along Sourthern Portion	30	17	0	017/08(6	09-Jan-20 A	31-Jan-20	30-Sep-23	30-Sep-23		0	100%

Actual Level of Effort
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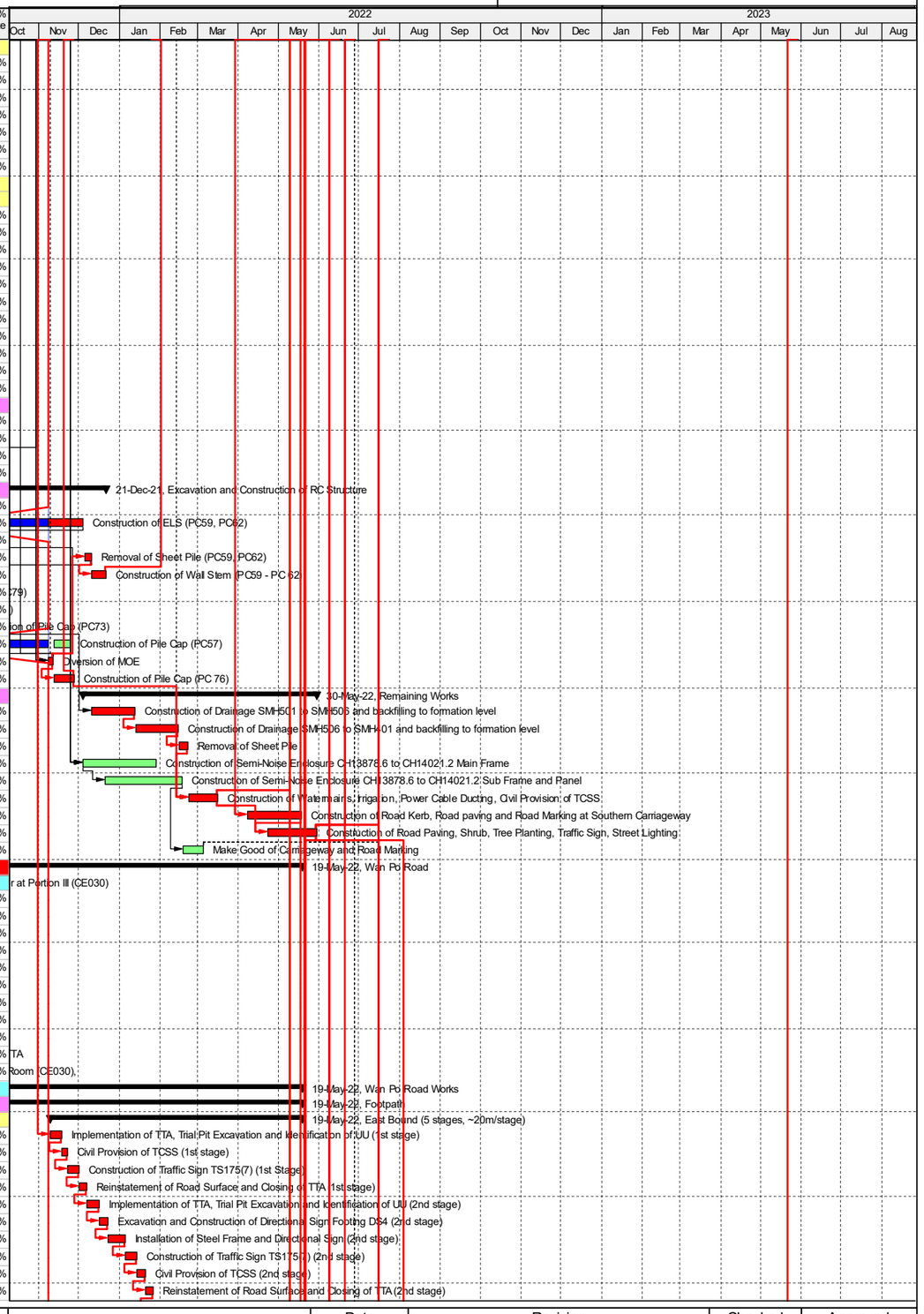
Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
Rig 5		81	73	0	017/08(6	20-Nov-19 A	19-Feb-20	27-Aug-21	30-Sep-23			
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD112)	15	8	0	017/08(6	20-Nov-19 A	28-Nov-19	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD113)	15	6	0	017/08(6	29-Nov-19 A	05-Dec-19	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD114)	15	7	0	017/08(6	06-Dec-19 A	13-Dec-19	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Idling of Predrill Rig for PD114 by Sub-contractor	3	3	0	017/08(6	14-Dec-19 A	17-Dec-19	30-Sep-23	30-Sep-23		0	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD120)	15	7	0	017/08(6	12-Feb-20 A	19-Feb-20	30-Sep-23	30-Sep-23		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD111)	15	7	0	017/08(6	16-Jan-20 A	23-Jan-20	30-Sep-23	30-Sep-23		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD82)	15	8	0	017/08(6	03-Feb-20 A	11-Feb-20	30-Sep-23	30-Sep-23		5	100%
Rig 2		0	0	0						0		
Rig 3		121	113	0	017/08(6	04-Dec-19 A	24-Apr-20	27-Aug-21	27-Aug-21			
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD115)	15	5	0	017/08(6	04-Dec-19 A	09-Dec-19	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD116)	15	20	0	017/08(6	24-Dec-19 A	18-Jan-20	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Idling of Predrill Rig for PD116 by Sub-contractor	4	14	0	017/08(6	27-Dec-19 A	13-Jan-20	27-Aug-21	27-Aug-21		0	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD117)	15	4	0	017/08(6	20-Jan-20 A	23-Jan-20	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD118)	15	5	0	017/08(6	03-Feb-20 A	07-Feb-20	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD119)	15	6	0	017/08(6	08-Feb-20 A	14-Feb-20	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD121)	15	7	0	017/08(6	17-Feb-20 A	24-Feb-20	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD122)	15	8	0	017/08(6	24-Feb-20 A	03-Mar-20	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD83)	15	11	0	017/08(6	12-Mar-20 A	24-Mar-20	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD79)	15	7	0	017/08(6	17-Apr-20 A	24-Apr-20	27-Aug-21	27-Aug-21		5	100%
WO.CA.TTA2	Predrilling at Central Barrier of Wan O Road (PD78)	15	9	0	017/08(6	02-Apr-20 A	16-Apr-20	27-Aug-21	27-Aug-21		5	100%
PBSH Works		331	300	0		29-Jan-20 A	28-Jan-21	27-Sep-21	11-Oct-21			
WO.CA.TTA2SP.	Late Delivery of H-pile due to COVID-19 (NCE083)	30	81	0	017/08(7	29-Jan-20 A	18-Apr-20	08-Oct-21	08-Oct-21		0	100%
WO.CA.TTA2SP.	Construction of PBSH (25nos, Rig 1) (PC73 to PC81)	75	233	0	017/08(6	03-Mar-20 A	11-Dec-20	08-Oct-21	08-Oct-21		0	100%
WO.CA.TTA2SP.	Construction of PBSH (12nos, Rig 2) (PC59 & PC62)	45	83	0	017/08(6	01-Sep-20 A	09-Dec-20	27-Sep-21	27-Sep-21		0	100%
WO.CA.TTA2SP.	Pile Loading Test	21	9	0	017/08(6	19-Jan-21 A	28-Jan-21	11-Oct-21	11-Oct-21		0	100%
Excavation and Construction of RC Structure		246	245	38	017/08(6	09-Jan-21 A	21-Dec-21	27-Sep-21	14-Jan-22	18		
WO.CA.TTA2SP.	Installation of Sheet Piles (PC59, PC62)	18	13	0	017/08(6	09-Jan-21 A	23-Jan-21	11-Oct-21	11-Oct-21		0	100%
WO.CA.TTA2SP.	Construction of ELS (PC59, PC62)	24	89	24	017/08(6	23-Jul-21 A	04-Dec-21	11-Oct-21	08-Nov-21	-23	0	0%
WO.CA.TTA2SP.	Construction of Pile Caps (PC59, PC62)	14	34	0	017/08(6	19-Mar-21 A	04-May-21	09-Nov-21	09-Nov-21			100%
WO.CA.TTA2SP.	Removal of Sheet Pile (PC59, PC62)	5	0	5	017/08(6	06-Dec-21	10-Dec-21	09-Nov-21	13-Nov-21	-23		0%
WO.CA.TTA2SP.	Construction of Wall Stem (PC59 - PC 62)	9	0	9	017/08(6	11-Dec-21	21-Dec-21	15-Nov-21	24-Nov-21	-23		0%
WO.CA.TTA2SP.	Construction of Pile Caps (PC74, PC77 and PC79)	18	64	0	017/08(6	04-Feb-21 A	28-Apr-21	23-Nov-21	23-Nov-21			100%
WO.CA.TTA2SP.	Construction of Pile Cap (PC75, PC78, PC80)	26	26	0	017/08(6	30-Mar-21 A	04-May-21	23-Nov-21	23-Nov-21			100%
WO.CA.TTA2SP.	Construction of Pile Cap (PC73)	14	11	0	017/08(6	19-Aug-21 A	01-Sep-21	23-Nov-21	23-Nov-21			100%
WO.CA.TTA2SP.	Construction of Pile Cap (PC57)	14	105	11	017/08(6	05-Jul-21 A	25-Nov-21	31-Dec-21	14-Jan-22	41		20%
WO.CA.TTA2SP.	Diversion of MOE	4	0	4	017/08(6	08-Nov-21	11-Nov-21	27-Sep-21	30-Sep-21	-34		0%
WO.CA.TTA2SP.	Construction of Pile Cap (PC 76)	14	0	14	017/08(6	12-Nov-21	27-Nov-21	02-Oct-21	19-Oct-21	-34		0%
Remaining Works		140	0	140	017/08(6	04-Dec-21	30-May-22	23-Nov-21	14-Apr-22	-34		
WO.CA.TTA2SP.	Construction of Drainage SMH501 to SMH506 and backfilling to formation le	25	0	25	017/08(6	11-Dec-21	12-Jan-22	23-Nov-21	21-Dec-21	-16	0	0%
WO.CA.TTA2SP.	Construction of Drainage SMH506 to SMH401 and backfilling to formation le	25	0	25	017/08(6	13-Jan-22	14-Feb-22	22-Dec-21	22-Jan-22	-16	0	0%
WO.CA.TTA2SP.	Removal of Sheet Pile	6	0	6	017/08(6	15-Feb-22	21-Feb-22	24-Jan-22	29-Jan-22	-16	0	0%
WO.CA.TTA2SP.	Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Main Fram	45	0	45	017/08(6	04-Dec-21	28-Jan-22	15-Jan-22	11-Mar-22	33	0	0%
WO.CA.TTA2SP.	Construction of Semi-Noise Enclosure CH13878.6 to CH14021.2 Sub Frame	45	0	45	017/08(6	21-Dec-21	17-Feb-22	04-Feb-22	28-Mar-22	33	0	0%
WO.CA.TTA2SP.	Construction of Watermains, Irrigation, Power Cable Ducting, Civil Provision c	20	0	20	017/08(6	22-Feb-22	16-Mar-22	31-Jan-22	25-Feb-22	-16	0	0%
WO.CA.TTA2SP.	Construction of Road Kerb, Road paving and Road Marking at Southern Car	30	0	30	017/08(6	08-Apr-22	18-May-22	26-Feb-22	01-Apr-22	-34	0	0%
WO.CA.TTA2SP.	Construction of Road Paving, Shrub, Tree Planting, Traffic Sign, Street Lighti	30	0	30	017/08(6	23-Apr-22	30-May-22	10-Mar-22	14-Apr-22	-34	0	0%
WO.CA.TTA2SP.	Make Good of Carriageway and Road Marking	14	0	14	017/08(6	18-Feb-22	05-Mar-22	29-Mar-22	14-Apr-22	33		0%
Wan Po Road		648	492	152	017/08(6	11-Mar-20 A	19-May-22	11-Sep-21	30-Sep-23	408		
Laying of Cable Duct and Earthing Conductor at Portion III (CE030)		307	305	0	017/08(6	11-Mar-20 A	20-Mar-21	30-Sep-23	30-Sep-23			
WO1250	Liasion with C1 and CLP for Cable Duct and Earth Conductor at Wan Po Ro	90	110	0	017/08(6	11-Mar-20 A	25-Jul-20	30-Sep-23	30-Sep-23		0	100%
WO1255	Subtletting and Acceptance of Quotation for TTA	90	110	0	017/08(6	11-Mar-20 A	25-Jul-20	30-Sep-23	30-Sep-23		0	100%
WO1257	Application and Approval of TTA	20	6	0	017/08(6	27-Jul-20 A	01-Aug-20	30-Sep-23	30-Sep-23		0	100%
WO1258	Application of Road Work Advice	10	12	0	017/08(6	03-Aug-20 A	15-Aug-20	30-Sep-23	30-Sep-23		0	100%
WO1259	Set up TTA	1	1	0	017/08(6	17-Aug-20 A	17-Aug-20	30-Sep-23	30-Sep-23		0	100%
WO1269	Site Clearance	5	5	0	017/08(6	18-Aug-20 A	22-Aug-20	30-Sep-23	30-Sep-23		0	100%
WO1279	Excavation for Ducting Works	7	6	0	017/08(6	24-Aug-20 A	29-Aug-20	30-Sep-23	30-Sep-23		0	100%
WO1289	Delivery of GI Duct	10	9	0	017/08(6	31-Aug-20 A	09-Sep-20	30-Sep-23	30-Sep-23		0	100%
WO1299	Ducting Works	9	9	0	017/08(6	10-Sep-20 A	19-Sep-20	30-Sep-23	30-Sep-23		0	100%
WO1309	Backfilling, Reinstatement of Road Works and Closing of TTA	6	6	0	017/08(6	15-Mar-21 A	20-Mar-21	30-Sep-23	30-Sep-23		0	100%
WO1319	Handover to C1 for Power Energization of the E&M Plant Room (CE030)	0	0	0	017/08(6		20-Mar-21		30-Sep-23		0	100%
Wan Po Road Works		267	113	152	017/08(6	24-Jun-21 A	19-May-22	11-Sep-21	18-Mar-22	-47		
Footpath		267	113	152	017/08(6	24-Jun-21 A	19-May-22	11-Sep-21	18-Mar-22	-47		
East Bound (5 stages, ~20m/stage)		152	0	152	017/08(6	09-Nov-21	19-May-22	11-Sep-21	18-Mar-22	-47		
WP1140	Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stag	8	0	8	017/08(6	09-Nov-21	18-Nov-21	11-Sep-21	21-Sep-21	-47	0	0%
WP1150	Civil Provision of TCSS (1st stage)	3	0	3	017/08(6	18-Nov-21	22-Nov-21	21-Sep-21	25-Sep-21	-47	0	0%
WP1160	Construction of Traffic Sign TS175(7) (1st Stage)	8	0	8	017/08(6	22-Nov-21	01-Dec-21	25-Sep-21	06-Oct-21	-47	0	0%
WP1170	Reinstatement of Road Surface and Closing of TTA (1st stage)	5	0	5	017/08(6	01-Dec-21	07-Dec-21	06-Oct-21	12-Oct-21	-47	0	0%
WP1180	Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd sta	8	0	8	017/08(6	07-Dec-21	16-Dec-21	12-Oct-21	22-Oct-21	-47	0	0%
WP1190	Excavation and Construction of Directional Sign Footing DS4 (2nd stage)	6	0	6	017/08(6	16-Dec-21	23-Dec-21	22-Oct-21	29-Oct-21	-47	0	0%
WP1200	Installation of Steel Frame and Directional Sign (2nd stage)	8	0	8	017/08(6	23-Dec-21	05-Jan-22	29-Oct-21	08-Nov-21	-47	0	0%
WP1210	Construction of Traffic Sign TS175(7) (2nd stage)	8	0	8	017/08(6	05-Jan-22	14-Jan-22	08-Nov-21	17-Nov-21	-47	0	0%
WP1220	Civil Provision of TCSS (2nd stage)	5	0	5	017/08(6	14-Jan-22	20-Jan-22	17-Nov-21	23-Nov-21	-47	0	0%
WP1230	Reinstatement of Road Surface and Closing of TTA (2nd stage)	5	0	5	017/08(6	20-Jan-22	26-Jan-22	23-Nov-21	29-Nov-21	-47	0	0%



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

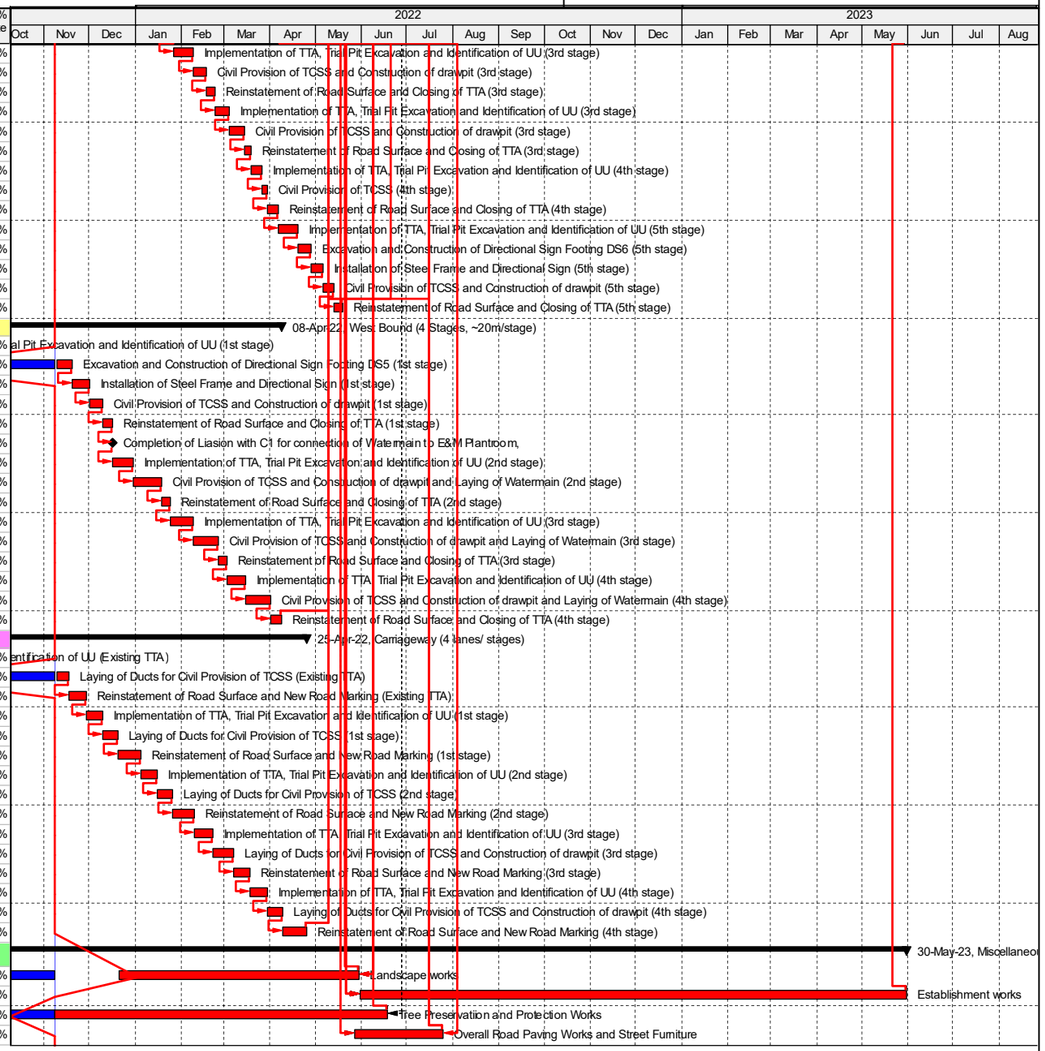
土木工程拓展署
Civil Engineering and Development Department

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthy Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

Activity ID	Activity Name	Original Duration	Actual Duration	Remaining Duration	Calendar	Start	Finish	Late Start	Late Finish	Total Float	TRA	Activity % Complete
WP1240	Implementation of TTA, Trial Pit Excavation and Identification of UU (3rd stag	8	0	8	017/08(6	26-Jan-22	08-Feb-22	29-Nov-21	08-Dec-21	-47	0	0%
WP1250	Civil Provision of TCSS and Construction of drawpit (3rd stage)	8	0	8	017/08(6	08-Feb-22	17-Feb-22	08-Dec-21	17-Dec-21	-47	0	0%
WP1260	Reinstatement of Road Surface and Closing of TTA (3rd stage)	5	0	5	017/08(6	17-Feb-22	23-Feb-22	17-Dec-21	23-Dec-21	-47	0	0%
WP1270	Implementation of TTA, Trial Pit Excavation and Identification of UU (3rd stag	8	0	8	017/08(6	23-Feb-22	04-Mar-22	23-Dec-21	05-Jan-22	-47	0	0%
WP1280	Civil Provision of TCSS and Construction of drawpit (3rd stage)	8	0	8	017/08(6	04-Mar-22	14-Mar-22	05-Jan-22	14-Jan-22	-47	0	0%
WP1290	Reinstatement of Road Surface and Closing of TTA (3rd stage)	5	0	5	017/08(6	14-Mar-22	19-Mar-22	14-Jan-22	20-Jan-22	-47	0	0%
WP1300	Implementation of TTA, Trial Pit Excavation and Identification of UU (4th stag	6	0	6	017/08(6	19-Mar-22	26-Mar-22	20-Jan-22	27-Jan-22	-47	0	0%
WP1310	Civil Provision of TCSS (4th stage)	3	0	3	017/08(6	26-Mar-22	30-Mar-22	27-Jan-22	31-Jan-22	-47	0	0%
WP1320	Reinstatement of Road Surface and Closing of TTA (4th stage)	5	0	5	017/08(6	30-Mar-22	06-Apr-22	31-Jan-22	09-Feb-22	-47	0	0%
WP1330	Implementation of TTA, Trial Pit Excavation and Identification of UU (5th stag	8	0	8	017/08(6	06-Apr-22	19-Apr-22	09-Feb-22	18-Feb-22	-47	0	0%
WP1340	Excavation and Construction of Directional Sign Footing DS6 (5th stage)	8	0	8	017/08(6	19-Apr-22	28-Apr-22	18-Feb-22	28-Feb-22	-47	0	0%
WP1350	Installation of Steel Frame and Directional Sign (5th stage)	6	0	6	017/08(6	28-Apr-22	06-May-22	28-Feb-22	07-Mar-22	-47	0	0%
WP1370	Civil Provision of TCSS and Construction of drawpit (5th stage)	5	0	5	017/08(6	06-May-22	13-May-22	07-Mar-22	12-Mar-22	-47	0	0%
WP1380	Reinstatement of Road Surface and Closing of TTA (5th stage)	5	0	5	017/08(6	13-May-22	19-May-22	12-Mar-22	18-Mar-22	-47	0	0%
West Bound (4 Stages, ~20m/stage)		237	113	122	017/08(6	24-Jun-21 A	08-Apr-22	20-Oct-21	18-Mar-22	-17		
WP1390	Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stage	10	10	0	017/08(6	24-Jun-21 A	06-Jul-21 A	20-Oct-21	20-Oct-21		0	100%
WP1400	Excavation and Construction of Directional Sign Footing DS5 (1st stage)	10	103	9	017/08(6	07-Jul-21 A	19-Nov-21	20-Oct-21	30-Oct-21	-17	0	10%
WP1410	Installation of Steel Frame and Directional Sign (1st stage)	10	0	10	017/08(6	19-Nov-21	01-Dec-21	30-Oct-21	11-Nov-21	-17	0	0%
WP1420	Civil Provision of TCSS and Construction of drawpit (1st stage)	8	0	8	017/08(6	01-Dec-21	10-Dec-21	11-Nov-21	20-Nov-21	-17	0	0%
WP1430	Reinstatement of Road Surface and Closing of TTA (1st stage)	5	0	5	017/08(6	10-Dec-21	16-Dec-21	20-Nov-21	26-Nov-21	-17	0	0%
WP1440	Completion of Liasion with C1 for connection of Watermain to E&M Plantroo	0	0	0	017/08(6		16-Dec-21		26-Nov-21	-17	0	0%
WP1450	Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd stag	10	0	10	017/08(6	16-Dec-21	30-Dec-21	26-Nov-21	08-Dec-21	-17	0	0%
WP1460	Civil Provision of TCSS and Construction of drawpit and Laying of Watermair	15	0	15	017/08(6	30-Dec-21	18-Jan-22	08-Dec-21	28-Dec-21	-17	0	0%
WP1470	Reinstatement of Road Surface and Closing of TTA (2nd stage)	5	0	5	017/08(6	18-Jan-22	24-Jan-22	28-Dec-21	04-Jan-22	-17	0	0%
WP1480	Implementation of TTA, Trial Pit Excavation and Identification of UU (3rd stag	10	0	10	017/08(6	24-Jan-22	08-Feb-22	04-Jan-22	15-Jan-22	-17	0	0%
WP1490	Civil Provision of TCSS and Construction of drawpit and Laying of Watermair	15	0	15	017/08(6	08-Feb-22	25-Feb-22	15-Jan-22	05-Feb-22	-17	0	0%
WP1500	Reinstatement of Road Surface and Closing of TTA (3rd stage)	5	0	5	017/08(6	25-Feb-22	03-Mar-22	05-Feb-22	11-Feb-22	-17	0	0%
WP1510	Implementation of TTA, Trial Pit Excavation and Identification of UU (4th stag	10	0	10	017/08(6	03-Mar-22	15-Mar-22	11-Feb-22	23-Feb-22	-17	0	0%
WP1520	Civil Provision of TCSS and Construction of drawpit and Laying of Watermair	15	0	15	017/08(6	15-Mar-22	01-Apr-22	23-Feb-22	12-Mar-22	-17	0	0%
WP1530	Reinstatement of Road Surface and Closing of TTA (4th stage)	5	0	5	017/08(6	01-Apr-22	08-Apr-22	12-Mar-22	18-Mar-22	-17	0	0%
Carriageway (4 lanes/ stages)		248	113	133	017/08(6	24-Jun-21 A	25-Apr-22	06-Oct-21	18-Mar-22	-28		
WP1000	Trial Pit Excavation and Identification of UU (Existing TTA)	10	10	0	017/08(6	24-Jun-21 A	06-Jul-21 A	06-Oct-21	06-Oct-21		0	100%
WP1010	Laying of Ducts for Civil Provision of TCSS (Existing TTA)	8	103	7	017/08(6	07-Jul-21 A	17-Nov-21	06-Oct-21	15-Oct-21	-28	0	12.5%
WP1015	Reinstatement of Road Surface and New Road Marking (Existing TTA)	10	0	10	017/08(6	17-Nov-21	29-Nov-21	15-Oct-21	27-Oct-21	-28	0	0%
WP1020	Implementation of TTA, Trial Pit Excavation and Identification of UU (1st stag	10	0	10	017/08(6	29-Nov-21	10-Dec-21	27-Oct-21	08-Nov-21	-28	0	0%
WP1030	Laying of Ducts for Civil Provision of TCSS (1st stage)	8	0	8	017/08(6	10-Dec-21	20-Dec-21	08-Nov-21	17-Nov-21	-28	0	0%
WP1090	Reinstatement of Road Surface and New Road Marking (1st stage)	10	0	10	017/08(6	20-Dec-21	04-Jan-22	17-Nov-21	29-Nov-21	-28	0	0%
WP1550	Implementation of TTA, Trial Pit Excavation and Identification of UU (2nd stag	10	0	10	017/08(6	04-Jan-22	15-Jan-22	29-Nov-21	10-Dec-21	-28	0	0%
WP1560	Laying of Ducts for Civil Provision of TCSS (2nd stage)	8	0	8	017/08(6	15-Jan-22	25-Jan-22	10-Dec-21	20-Dec-21	-28	0	0%
WP1570	Reinstatement of Road Surface and New Road Marking (2nd stage)	10	0	10	017/08(6	25-Jan-22	09-Feb-22	20-Dec-21	04-Jan-22	-28	0	0%
WP1580	Implementation of TTA, Trial Pit Excavation and Identification of UU (3rd stag	10	0	10	017/08(6	09-Feb-22	21-Feb-22	04-Jan-22	15-Jan-22	-28	0	0%
WP1590	Laying of Ducts for Civil Provision of TCSS and Construction of drawpit (3rd s	12	0	12	017/08(6	21-Feb-22	07-Mar-22	15-Jan-22	29-Jan-22	-28	0	0%
WP1600	Reinstatement of Road Surface and New Road Marking (3rd stage)	10	0	10	017/08(6	07-Mar-22	18-Mar-22	29-Jan-22	14-Feb-22	-28	0	0%
WP1610	Implementation of TTA, Trial Pit Excavation and Identification of UU (4th stag	10	0	10	017/08(6	18-Mar-22	30-Mar-22	14-Feb-22	25-Feb-22	-28	0	0%
WP1620	Laying of Ducts for Civil Provision of TCSS and Construction of drawpit (4th s	8	0	8	017/08(6	30-Mar-22	09-Apr-22	25-Feb-22	07-Mar-22	-28	0	0%
WP1630	Reinstatement of Road Surface and New Road Marking (4th stage)	10	0	10	017/08(6	09-Apr-22	25-Apr-22	07-Mar-22	18-Mar-22	-28	0	0%
Miscellaneous Works (Portion I, II and III)		1249	790	459		09-Mar-19 A	30-May-23	07-Sep-21	14-Apr-23	-37		
MISC4010	Landscape works	321	153	161	017/08(7	08-Jun-21 A	30-May-22	05-Nov-21	14-Apr-22	-46	0	50%
MISC4020	Establishment works	365	0	365	017/08(7	31-May-22	30-May-23	15-Apr-22	14-Apr-23	-46	0	0%
MISC4030	Tree Preservation and Protection Works	939	790	178	017/08(6	09-Mar-19 A	18-Jun-22	07-Sep-21	14-Apr-22	-49	0	81%
MISC4040	Overall Road Paving Works and Street Furniture	49	0	49	017/08(6	27-May-22	25-Jul-22	26-May-22	25-Jul-22	-1	0	0%



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

土木工程拓展署
Civil Engineering and Development Department

Contract No.: NE/2017/08
Cross Bay Link, Tseung Kwan O
Road D9 and Associated Works

Build King

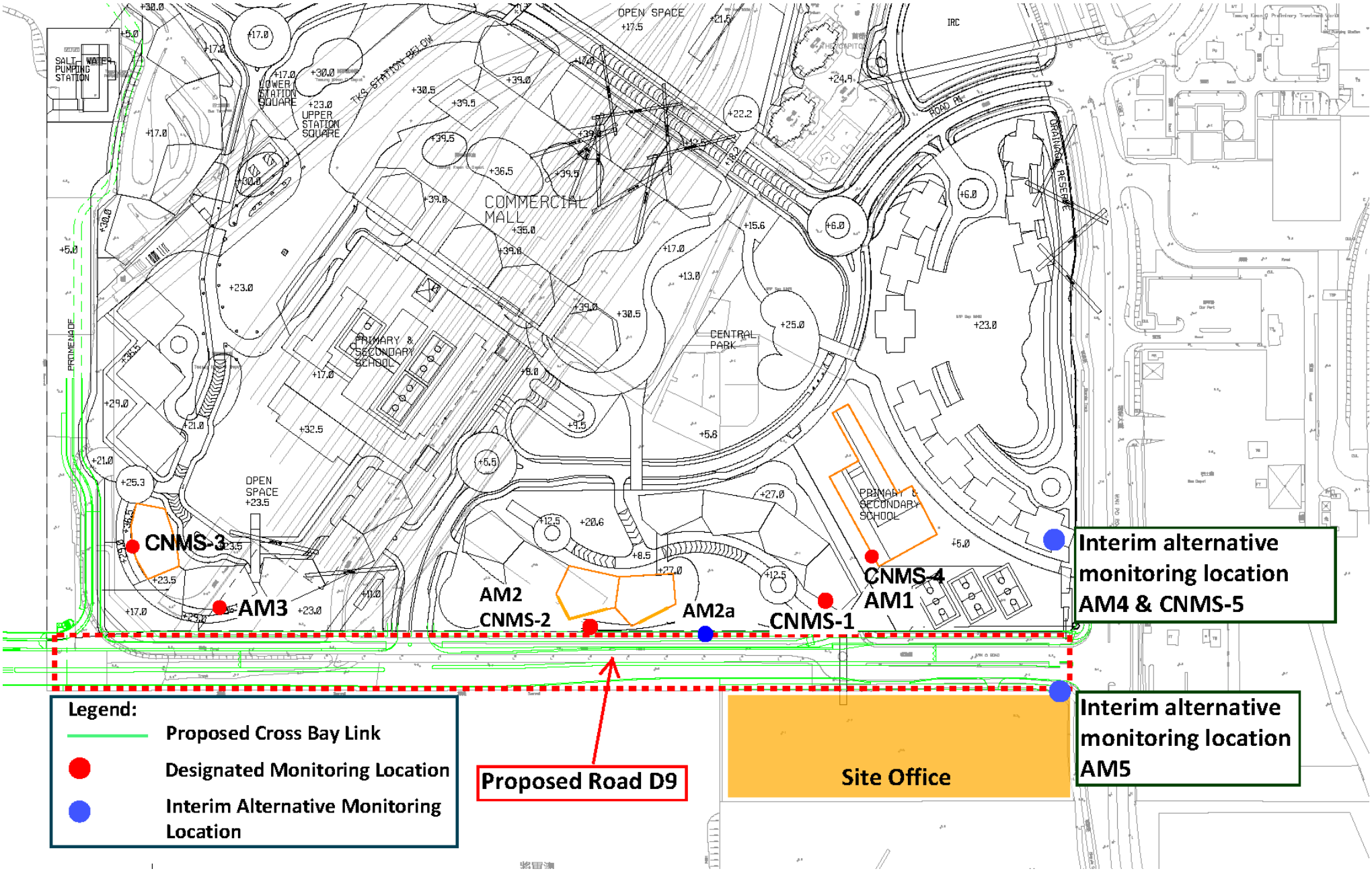
Date	Revision	Checked	Approved
08-Mar-21	Monthly Programme Update (Mar 2021)	TL	StL
08-May-21	Monthy Programme Update (May 2021)	CkT	StL
08-Jul-21	Monthly Programme Update (Jul 2021)	CKT	StL
16-Sep-21	Acceleration Programme	CKT	Stl

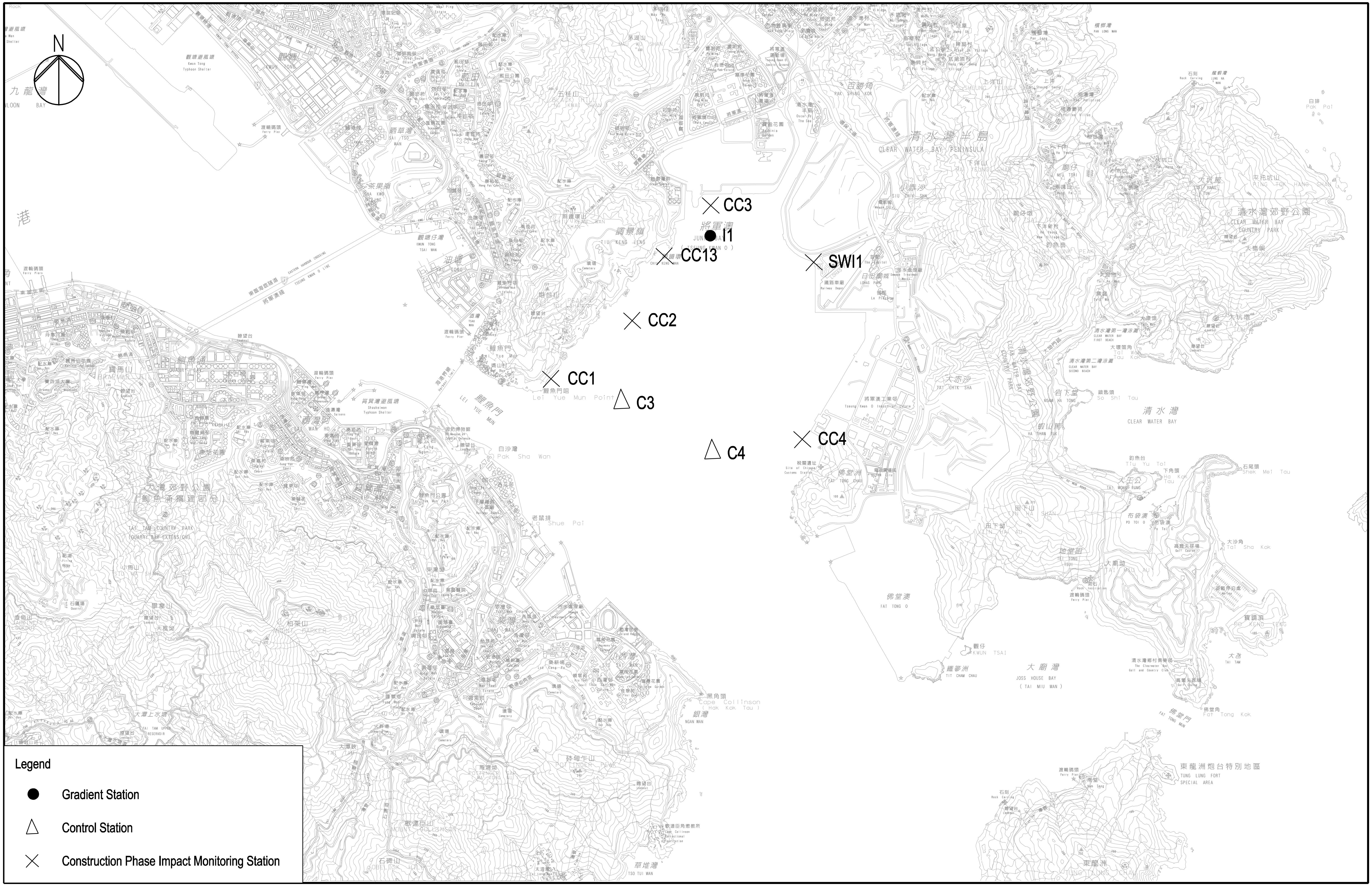
Appendix D

Monitoring Location
(Air Quality, Noise and Water Quality)

CEDD Contract Agreement No. EDO/04/2018 -
Environmental Team for Cross Bay Link, Tseung Kwan O
Designated and Interim Alternative Air Quality and Noise Monitoring Location

AUES





Legend

- ● Gradient Station
- △ Control Station
- × Construction Phase Impact Monitoring Station

土木工程拓展署 Civil Engineering and Development Department	ARUP Ove Arup & Partners Hong Kong Limited	Job Title: **Agreement No. CE 43/2008(HY) Cross Bay Link, Tseung Kwan O - Investigation**	Drawing Title: Locations of Water Quality Monitoring Stations	Drawing No. 209506/EMA/WQ/001

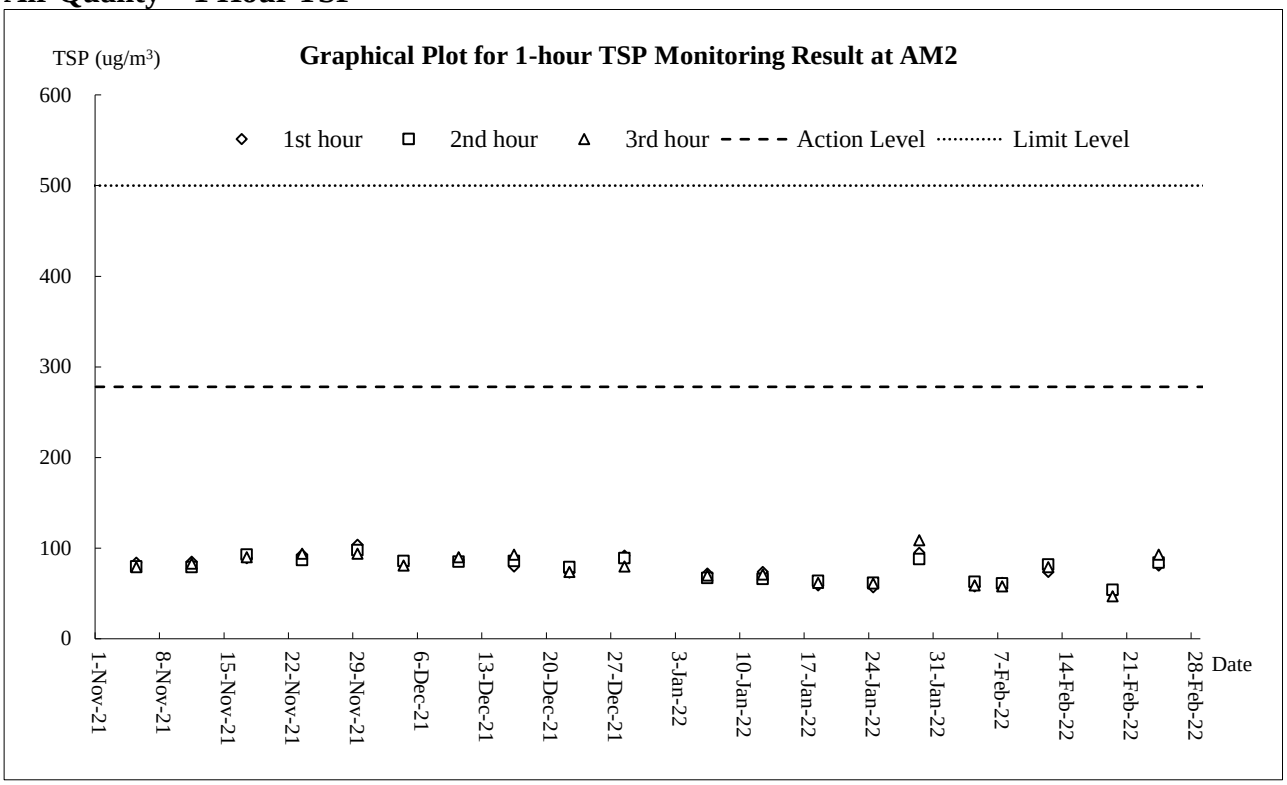
Rev.	Description	Date
C	THIRD ISSUE	03/13
B	SECOND ISSUE	01/13
A	FIRST ISSUE	03/11

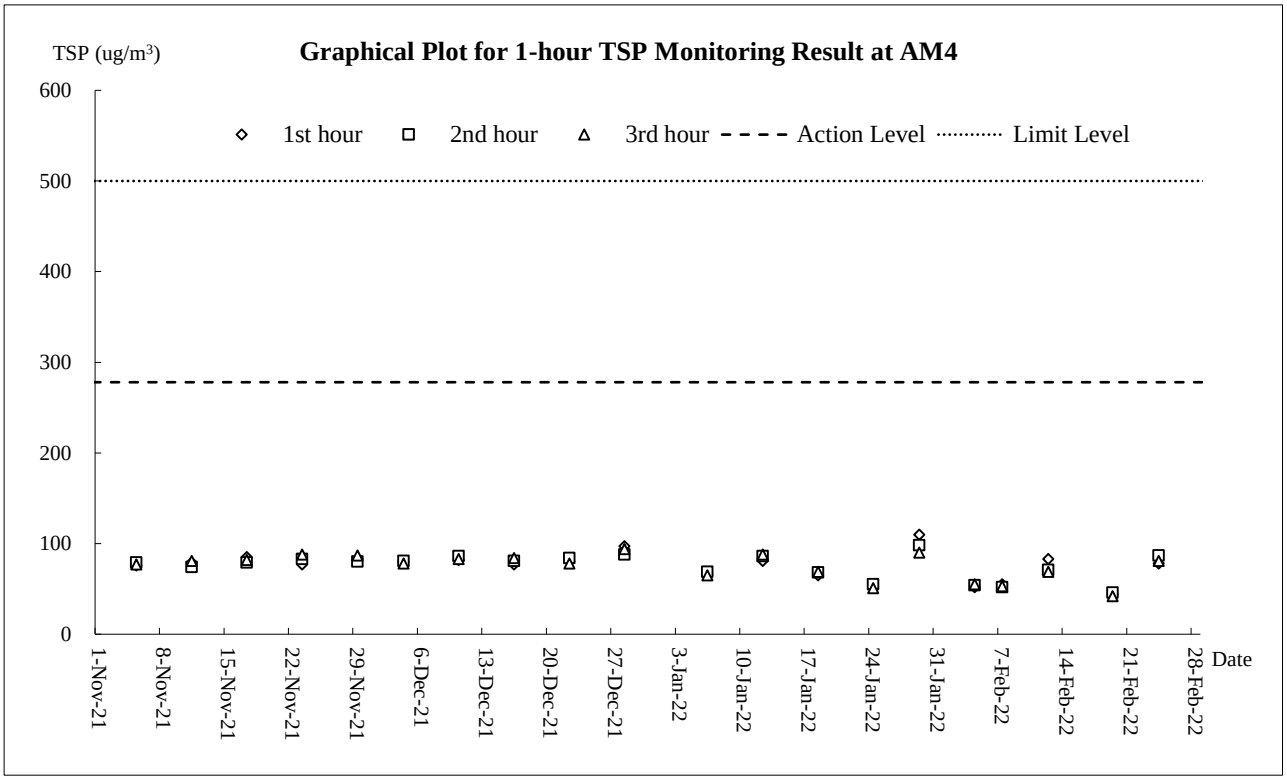
Drawn	Date	Checked	Approved	Scale	Status	Rev.
GL	03/13	JP	ST	1:30000 (A3)	FINAL	C

Appendix E

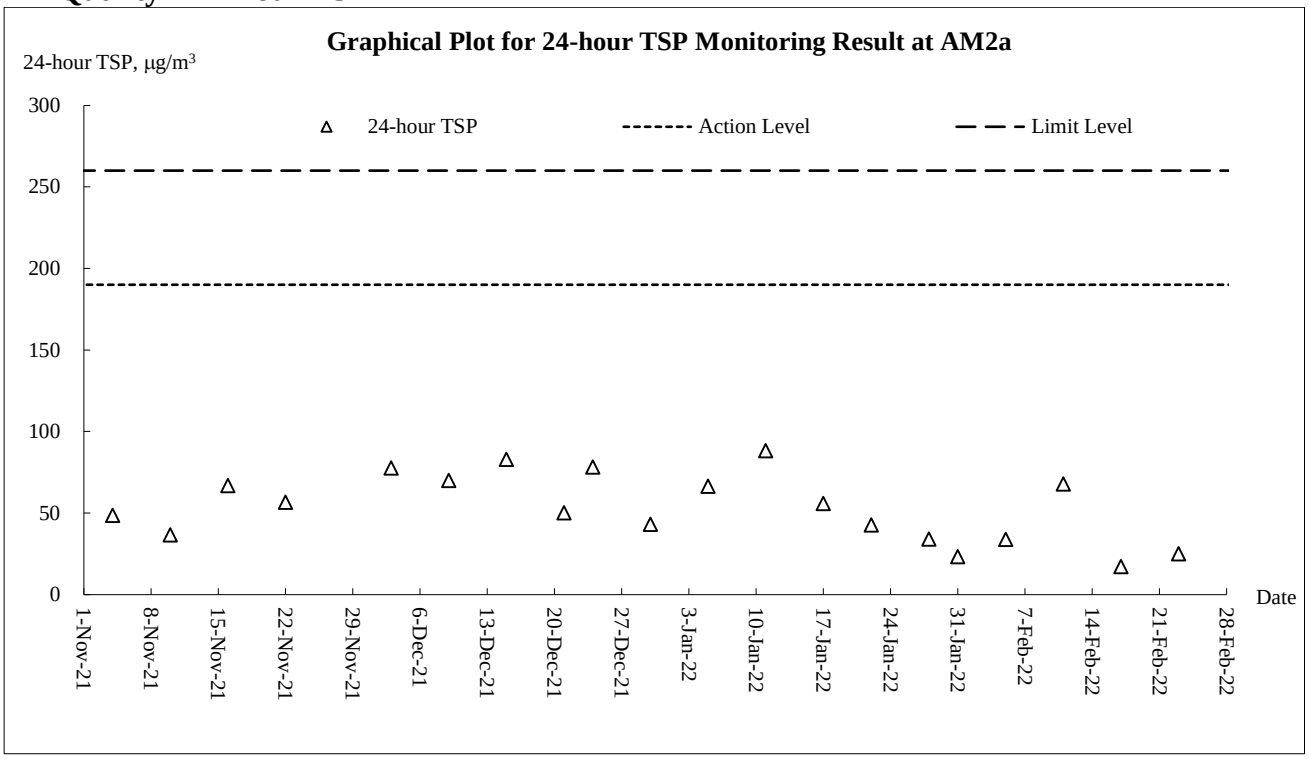
Graphical Plots of Monitoring Results

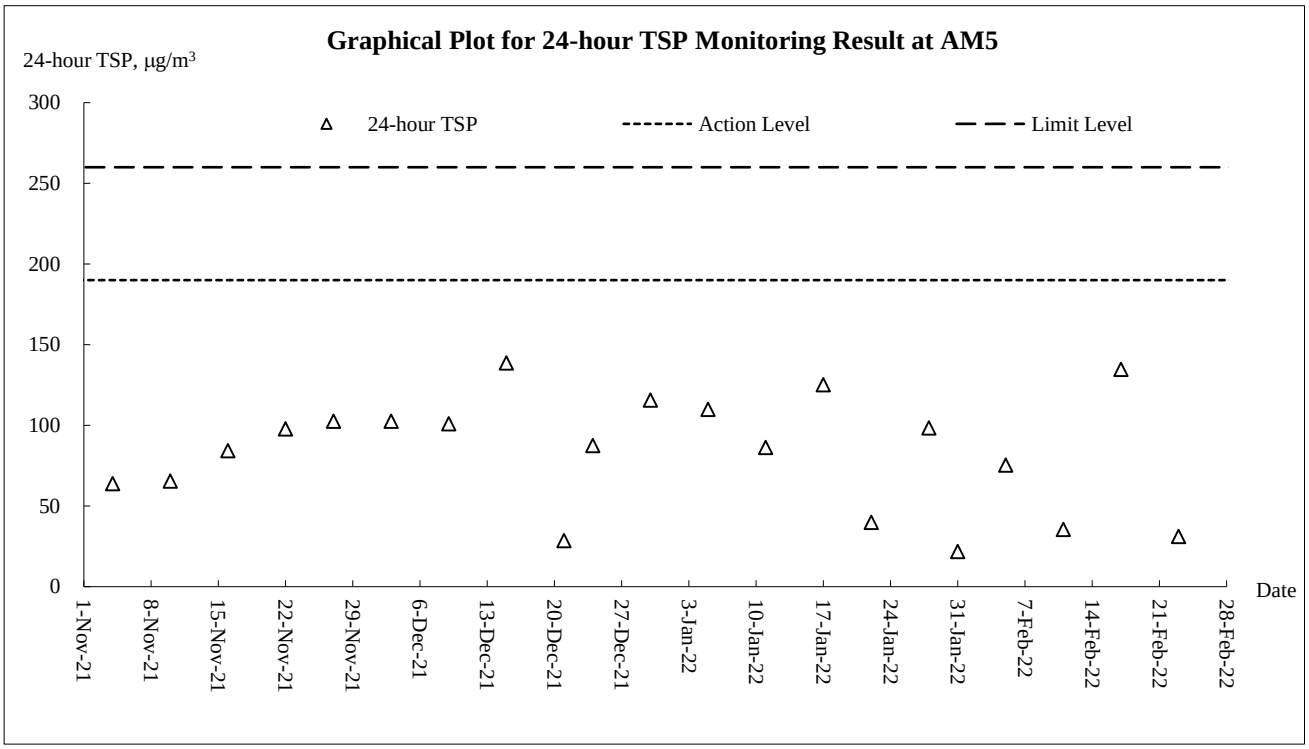
Air Quality – 1 Hour TSP



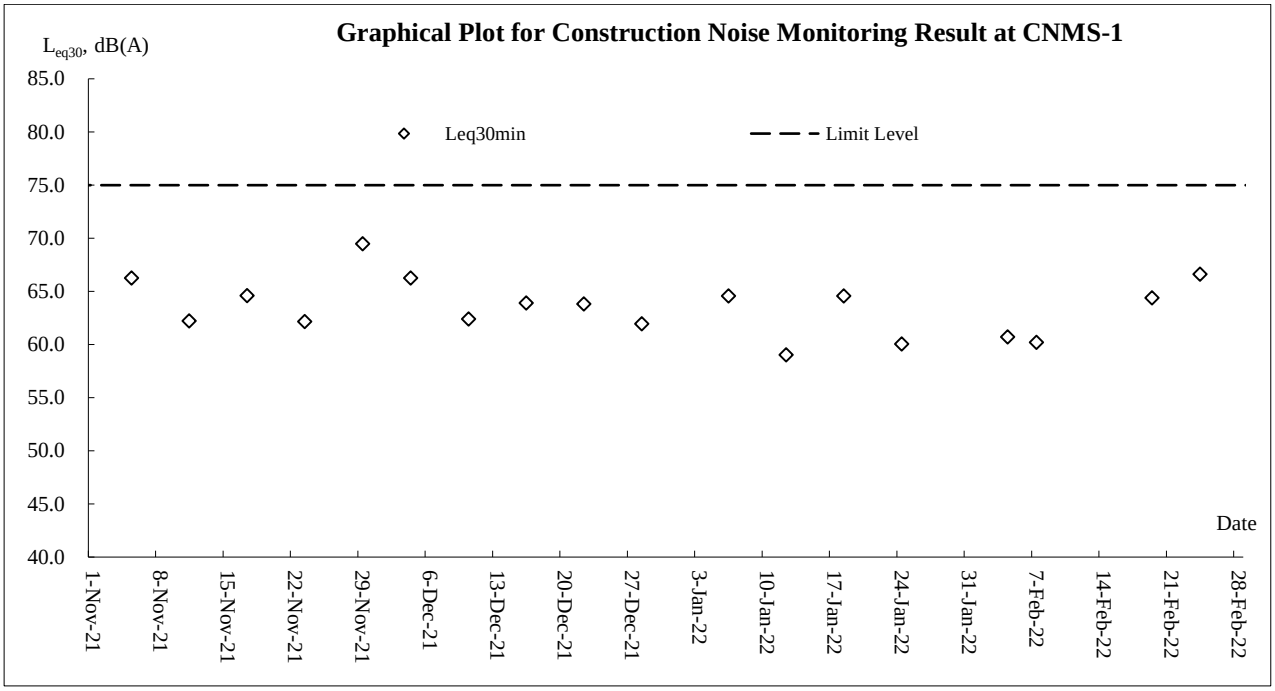


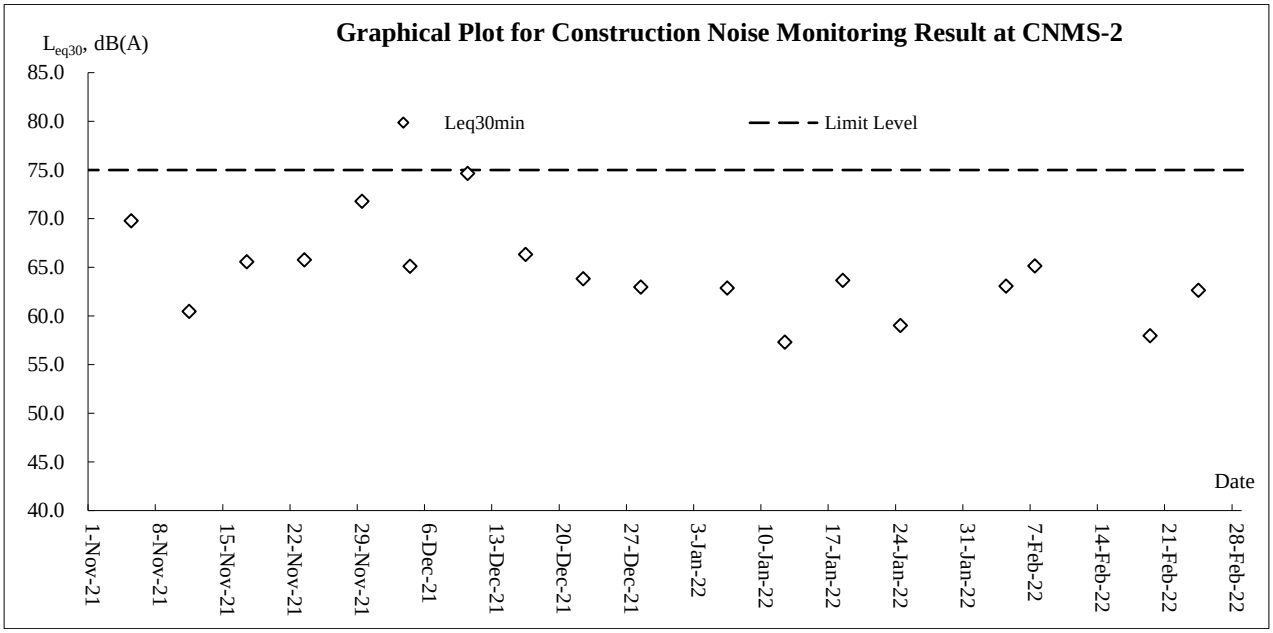
Air Quality - 24-Hour TSP

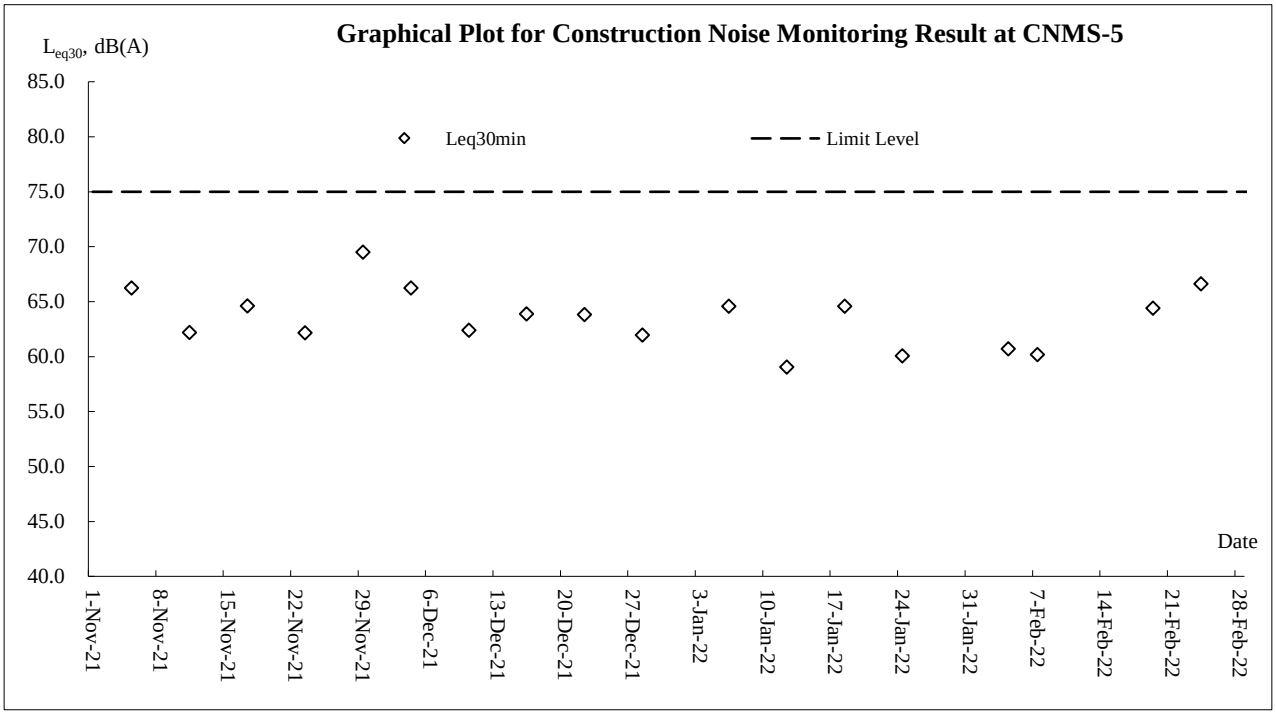




Construction Noise






Graphical Plot for Construction Noise Monitoring Result at CNMS-5
L_{eq30}, dB(A)
85.0
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
Leq30min
Limit Level
Date
1-Nov-21
8-Nov-21
15-Nov-21
22-Nov-21
29-Nov-21
6-Dec-21
13-Dec-21
20-Dec-21
27-Dec-21
3-Jan-22
10-Jan-22
17-Jan-22
24-Jan-22
31-Jan-22
7-Feb-22
14-Feb-22
21-Feb-22
28-Feb-22

Appendix F

Meteorological Information

The weather of December 2021

With tropical cyclone Rai affecting the northern part of the South China Sea and skirting past to the south of Hong Kong, the Observatory issued the Standby Signal No. 1 on 20 December 2021. It was the second time in Hong Kong necessitating the issuance of tropical cyclone warning signal in December since 1946. December 2021 was warmer than usual with a mean temperature of 18.9 degrees, 0.7 degrees above the normal figure of 18.2 degrees (or 1.0 degree above the 1981-2010 normals). Moreover, with eleven out of the twelve months warmer than usual, 2021 was the warmest year on record in Hong Kong. The annual mean temperature of 24.6 degrees, annual mean maximum temperature of 27.5 degrees and annual mean minimum temperature of 22.6 degrees were all the highest since records began in 1884. December 2021 was also drier than usual with a total rainfall of 19.5 millimetres, about 32 percent below the normal of 28.8 millimetres (or 27 percent below the 1981-2010 normal of 26.8 millimetres). The annual total rainfall of 2307.1 millimetres in 2021 was about 5 percent below the annual normal of 2431.2 millimetres (or 4 percent below the 1981-2010 normal of 2398.5 millimetres).

The weather of January 2022

With the northeast monsoon over the south China coast generally weaker than normal for most of the time in the month, January 2022 was much warmer than usual in Hong Kong. The monthly mean minimum temperature of 16.5 degrees and monthly mean temperature of 18.0 degrees were 1.9 degrees and 1.5 degrees above their corresponding normals and respectively the fourth and fifth highest on record for January. The month was also drier than usual with a total rainfall of 4.1 millimetres, about 12 percent of the normal of 33.2 millimetres.

The weather of February 2022

With stronger than normal winter monsoon affecting southern China in the month, the weather of Hong Kong was much colder than usual in February 2022. The monthly mean temperature was 15.2 degrees, 1.9 degrees below the normal figure of 17.1 degrees. Mainly attributing to the continuous rain episode on 19 – 22 February, the month was also much wetter than usual with a total rainfall of 168.5 millimetres, more than four times of the normal of 38.9 millimetres and the sixth highest on record for February. The accumulated rainfall recorded in the first two months of the year was 172.6 millimetres, more than two times of the normal figure of 71.9 millimetres for the same period.

*The detailed meterological data for each successive day can be referred to in the Monthly EM&A Reports (Dec 2021, Jan 2022 and Feb 2022.)

Appendix G

Waste Flow Table

Contract 1

Monthly Summary Waste Flow Table for 2021 (year)

Name of Person completing the record: Calvin So (EO)

Project : Cross Bay Link, TKO, Main Bridge and Associated Works

Contract No.: NE/2017/07

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m^3)
Jan	0.132	0.000	0.000	0.000	0.132	0.000	0.000	0.113	0.000	0.000	0.399
Feb	0.108	0.000	0.000	0.000	0.108	0.000	0.000	0.186	0.000	0.000	0.351
Mar	0.060	0.000	0.000	0.000	0.060	0.000	0.000	0.099	0.000	0.000	0.512
Apr	0.018	0.000	0.000	0.000	0.018	0.000	0.000	0.121	0.000	0.000	0.283
May	0.576	0.000	0.000	0.000	0.576	0.000	0.000	0.103	0.000	0.000	0.278
Jun	1.170	0.000	0.000	0.000	1.170	0.000	0.000	0.210	0.000	0.000	0.437
Sub-total	2.064	0.000	0.000	0.000	2.064	0.000	0.000	0.832	0.000	0.000	2.259
Jul	0.060	0.000	0.000	0.000	0.060	0.000	0.000	0.155	0.000	0.000	0.204
Aug	0.018	0.000	0.000	0.000	0.018	0.000	0.000	0.170	0.000	0.000	0.157
Sep	0.066	0.000	0.000	0.000	0.066	0.000	0.000	0.141	0.000	0.000	0.284
Oct	0.036	0.000	0.000	0.000	0.036	0.000	0.000	0.151	0.000	0.000	0.211
Nov	0.498	0.000	0.000	0.000	0.498	0.000	0.000	0.160	0.000	0.000	0.343
Dec	0.006	0.000	0.000	0.000	0.006	0.000	0.000	0.154	0.000	0.000	0.181
Total	2.748	0.000	0.000	0.000	2.748	0.000	0.000	1.763	0.000	0.000	3.639

Note:

1. For non-inert portion of C&D material, assume the density of 1 m^3 general refuse is equal to 200 kg.
2. For inert portion of C&D material, assume 6 m^3 per each full-filled dump truck.
3. All values are round off to the third decimal places.

Monthly Summary Waste Flow Table for 2022 (year)

Name of Person completing the record: Calvin So (EO)

Project : Cross Bay Link, TKO, Main Bridge and Associated Works

Contract No.: NE/2017/07

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m^3)
Jan	0.162	0.000	0.000	0.000	0.162	0.000	0.000	0.171	0.000	0.000	0.768
Feb	0.066	0.000	0.000	0.000	0.066	0.000	0.000	0.210	0.000	0.000	0.513
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
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-total	0.228	0.000	0.000	0.000	0.228	0.000	0.000	0.381	0.000	0.000	1.281
Jul	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
Total	0.228	0.000	0.000	0.000	0.228	0.000	0.000	0.381	0.000	0.000	1.281

Note:

1. For non-inert portion of C&D material, assume the density of 1 m^3 general refuse is equal to 200 kg.
2. For inert portion of C&D material, assume 6 m^3 per each full-filled dump truck.
3. All values are round off to the third decimal places.

Contract 2

Monthly Summary Waste Flow Table for 2021 Year

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Borken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (See note 3)	Chemical Waste	Other, e.g. general refuse
	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m^3]
Jan	1.685	0.000	0.000	0.000	1.685	0.744	0.005	0.050	0.020	0.000	0.032
Feb	0.244	0.000	0.000	0.000	0.244	0.307	0.005	0.050	0.020	0.000	0.011
Mar	2.449	0.000	0.000	0.000	2.449	0.000	0.006	0.070	0.030	0.000	0.026
Apr	2.634	0.000	0.000	0.000	2.634	0.000	0.006	0.050	0.020	0.000	0.026
May	0.390	0.000	0.000	0.000	0.390	0.000	0.003	0.100	0.020	0.000	0.044
June	0.287	0.000	0.000	0.000	0.287	0.000	0.002	0.150	0.030	0.000	0.009
SUB-TOTAL	7.689	0.000	0.000	0.000	7.689	1.051	0.027	0.470	0.140	0.000	0.147
Jul	0.180	0.000	0.000	0.000	0.180	0.000	0.002	0.150	0.030	0.000	0.019
Aug	0.284	0.000	0.000	0.000	0.284	0.000	0.005	0.100	0.005	0.000	0.035
Sep	0.310	0.000	0.000	0.000	0.310	0.000	0.000	0.050	0.000	0.000	0.036
Oct	0.256	0.000	0.000	0.000	0.256	0.000	0.000	0.000	0.000	0.000	0.023
Nov	2.079	0.000	0.000	0.000	2.079	0.000	0.000	0.000	0.000	0.000	0.046
Dec	1.837	0.000	0.000	0.000	1.712	0.125	0.000	0.000	0.000	0.000	0.056
TOTAL	12.634	0.000	0.000	0.000	12.509	1.176	0.034	0.770	0.175	0.000	0.362

Note: **Conversion to 1000m^3 for general refuse is weight in 1000kg multiply by 0.002**

Conversion to 1000m^3 for Inert C&D is weight in 1000kg multiply by 0.0005

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

Assume the loaded volume of a dump truck for internal inert waste transfer is 17.9 m^3

Monthly Summary Waste Flow Table for 2022 Year

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Borken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (See note 3)	Chemical Waste	Other, e.g. general refuse
	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000m^3]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m^3]
Jan	2.835	0.000	0.000	0.000	2.835	0.530	0.000	0.000	0.000	0.000	0.154
Feb	0.132	0.000	0.000	0.000	0.132	1.049	0.000	0.000	0.000	0.000	0.048
Mar	0.000										
Apr	0.000										
May	0.000										
June	0.000										
SUB-TOTAL	2.967	0.000	0.000	0.000	2.967	1.579	0.000	0.000	0.000	0.000	0.203
Jul	0.000										
Aug	0.000										
Sep	0.000										
Oct	0.000										
Nov	0.000										
Dec	0.000										
TOTAL	2.967	0.000	0.000	0.000	2.967	1.579	0.000	0.000	0.000	0.000	0.203

Note: Conversion to 1000m^3 for general refuse is weight in 1000kg multiply by 0.002

Conversion to 1000m^3 for Inert C&D is weight in 1000kg multiply by 0.0005

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material

Assume the loaded volume of a dump truck for internal inert waste transfer is 17.9 m^3

Appendix H

Complaint Summary

Log ref.	Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Contract Related	Follow up action
1	Not provided	14-Mar-19	Junk Bay	Unwilling to disclose	Marine Water	EPD	N08/RE/00007432-19	The complainant said muddy water and mud was discharged from work barges under CBL between 7:00 - 10pm. The complainant said he observed the act during his recent fishing activities in the nearby area.	Contract 1 (NE/2017/07)	According to ET's investigation, Contractor of Contract 1 (CRBC) had provided proper water mitigation measures to minimize the water impact of marine piling work to the nearby waterbody. No abnormal and turbid water discharged from site was observed and no exceedance was recorded from the marine water impact quality monitoring. Nevertheless, the Contractor of Contract 1 was reminded to strictly implement all the water mitigation measures as stated in EP and EM&A Manual and ET will keep closely inspect the site condition in subsequent weekly site inspection. .
2	4-Jan-20	9-Jan-20	Wan O Road	Unwilling to disclose	Noise	CEDD	NA	The Complainant complained about the noise nuisance generated by road breaking work at Wan O Road	Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 2 - NE/2017/08 (Build King), road breaking work was commenced at Wan O Road on 4 January 2020 morning. The work involved one road breaker to conduct the breaking activity which generate noise impact. Noise mitigation measure such as wrapped the head of the breaker with acoustic material was implemented on the day of complaint received to minimize the impact to resident nearby. Movable noise barrier was provided on site, but it was not adopted due to miscommunication of workers. Upon received the complaint on 4 January 2020, Build King has immediately adopted the movable noise barrier for road breaking work as noise mitigation measure to minimize the noise impact.
3	15-Jan-20	15-Jan-20	Wan O Road	Unwilling to disclose	Noise	CEDD	NA	The Complainant complained about the noise nuisance generated by road breaking work at Wan O Road	Contract 2 (NE/2017/08)	As advised by the Contractor, the movable noise barrier was not immediately adopted after relocation of the road breaker on 15 January 2020. Upon received the complaint, the Contractor has immediately adopted the noise barriers as noise mitigation measure for the road breaking work to minimize the noise impact In addition, the Contractor has issued a warning letter to the relevant subcontractor for poor environmental performance and requested their worker to strictly implement the use of movable noise barrier. In order to prevent the incident happens again, ET also advised that the Contractor should dedicate a worker to ensure the noise barrier is implemented prior to road breaking activities.
4	25-Feb-20	26-Feb-20	Works Area A	Unwilling to disclose	Noise	CEDD	NA	The Complainant complained about the noise nuisance caused by hammering/chiseling works at Works Area A	Contract 1 (NE/2017/07)	As advised by the Contractor of Contract 1 - NE/2017/07 (CRBC), hammering/chiseling works for drilling platform maintenance was conducted at Works Area A on 25 February 2020 morning and no Powered Mechanical Equipment (PME) was involved. Upon received the complaint, CRBC has stopped the relevant work immediately. In order to minimize the noise nuisance caused by the hammering work, CRBC decided to relocate the hammering work from Works Area A to the marine working area which is far away from the residential areas. CEDD replied the complainant on 25 February 2020 and the complainant was satisfied with the proposed mitigation measure.
5	15-Mar-20	18-Mar-20	Junk Bay	Unwilling to disclose	Noise	EPD	NA	The Complainant complained about the construction noise from Junk Bay	Contract 1 (NE/2017/07)	As advised by the Contractor of Contract 1 – Contract No. NE/2017/07 (CRBC), their workers reported for duty around 08:00 on 15 March 2020. The workers were standby on a flat top barge in which a precast unit was temporarily stored and waited for the mobilization of crane barge to carry out lifting operation of the precast unit. No hammering work nor other noisy work activity was carried out on the flat top barge in the complaint period. In addition, no Powered Mechanical Equipment (PME) was used until the crane barge was mobilized for lifting operations between 15:00 and 19:00. RSS checked their own records and confirmed that there was no operation of PME in Junk Bay before 09:00 on 15 March 2020. The complaint was considered not related to the Project since there is no operation of PME during the complaint period.
6	2-Apr-20	7-Apr-20	Lohas Park Station Exit A and TKO Salt Water Pumping Station	Unwilling to disclose	Construction Dust	CEDD	NA	The Complainant complained about the dump truck tracking mud on the road adjacent to Lohas Park Station Exit A and TKO Salt Water Pumping Station at approximately 09:50 that morning.	Contract 2 (NE/2017/08)	Joint site inspection among the Supervisor, the Contractor, ET and IEC was also carried out on 8 April 2020 to inspect the environmental performance of the construction site. Proper wheel washing facilities was provided at the site entrance near the Lohas Park Station Exit A and all the vehicle were properly washed prior leaving the site. No tracking mud was observed at the complaint location during the site inspection. As advised by RSS, it is confirmed by MTRCL that the complaint location was under MTRCL management and the tracking mud issue was followed up by MTRCL.
7	20-Apr-20	6-May-20	Junk Bay	Lui Man Kwong, Member fo Sai Kung District Council	Noise	CEDD	TKO-MK-200421-(R)-1289	The Complainant complained about the noise nuisance generated by construction works from Junk Bay on 20 April 2020 around 6 a.m. to 7 a.m.	Contract 1 (NE/2017/07)	As advised by the Contractor of Contract 1 – Contract No. NE/2017/07 (CRBC), there was no marine work carried out at Junk Bay from 06:00 to 07:00 on 20 April 2020 as their workers reported for duty after 08:00 on that day. RSS checked their own records and confirmed that there was no marine work was carried out at Junk Bay before 08:00 on 20 April 2020.
8	5-May-20	6-May-20	General	Unwilling to disclose	Construction Dust, Noise, Wastewater	CEDD	NA	The Complainant complained about the noisenuisance generated by evening works, the wastewater generated from site are not well treated, and the dust generation caused by the construction work.	Contract 1 (NE/2017/07) Contract 2 (NE/2017/08)	During the regular joint site inspection among the Supervisor, the Contractor and ET carried out in the past few weeks, it was observed that construction dust and wastewater mitigation measures were implemented properly in both Contracts of the Project. In addition, according to the evening noise monitoring conducted in the past month, the evening noise measurement results were found within the range of the baseline noise monitoring results, which implies that the construction noise from evening works was insignificant. It is considered the complaint is not project related.

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9	23-Jul-20	23-Jul-20	Junk Bay	Resident of Ocean Shores	Light Nuisance	CEDD	NA	The Complainant complained about the light nuisance caused by the 4000 tone crane barge during the evening on 22 July 2020.	Contract 1 (NE/2017/07)	According to the works schedule of Contract 1, no marine work was conducted on 22 July 2020 evening. The Contractor of Contract 1 (CRBC) advised that the illumination (e.g. flashlight, headlight) on the crane barge is required for safety reason - to keep the barge being visible and to avoid collision by other marine vessel. In order to minimize the light nuisance to the public, it is agreed by CRBC that the illumination on the crane barge will be kept to a minimum in the evening. It is considered the complaint is not project related.
10	28-Jul-20	28-Jul-20	Wan O Road	Resident of Lohas Park Phase 4	Noise	CEDD	NA	The complainant complained about the noise nuisance caused by breaking work at Wan O Road at approximately 10:00am on 28 July 2020.	Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 2 – NE/201708 (Build King), breaking work was carried out at Wan O Road at the complaint period and movable noise barrier as noise mitigation measure was implemented during the road breaking work. Noise monitoring was conducted by Build King on 30 July 2020 during the breaking work, the monitoring result did not exceeded the limit level 75dB(A) which revealed that the construction noise received at representative NSR were within acceptable level. Noise monitoring was also conducted by ET on 31 July 2020 and no limit level exceedance was record. It is considered the complaint is related to the Project. However, noise mitigation measure was implemented by Build King during the complaint period.
11	23-Jul-20	13-Aug-20	Junk Bay	Resident of Ocean Shores	Noise	EPD	NA	The Complainant complained about the noise nuisance caused by the 4000 tone crane barge during the restricted hours on 23 July 2020.	Contract 1 (NE/2017/07)	According to the works schedule of Contract 1, no marine work was conducted between 22 July 2020 19:00 and 23 July 2020 08:00. RSS checked their own records and confirmed that there was no marine work carried out at Junk Bay between 22 July 2020 19:00 and 23 July 2020 08:00. It is considered the complaint is not related to the Project since no marine work was carried out by CRBC during the reporting period
12	24-Aug-20	26-Aug-20	Junk Bay	Ocean Shores Owner's Committee Chairman Chan Kai Wai	Noise	CEDD	NA	The Complainant complained about the operation of derrick barge at Junk Bay on Sunday	Contract 1 (NE/2017/07)	As advised by the Contractor of Contract 1 – Contract No. NE/2017/07 (CRBC), working platform setup work was carried out at pier W4 on 23 August 2020. One derrick barge was used for lifting work between 09:00 - 11:30. During the working platform setting up work, only lifting of platform material was carried out by the derrick barge at V-pier W4. Bolt and nut tightening work for the working platform was then carried out by the workers at pier W4. No hammering work was carried out on 23 August 2020. According to the issued Construction Noise Permit (CNP) GW-RE0438-20, derrick barge (group A, D, E of the PME listed in condition 3a of the CNP) is allowed to be operated on general holiday (including Sunday) 09:00 – 20:00. The operation of the derrick barge on 23 August 2020 was within the permitted hours. It is considered the complaint is related to the Project. However, the Contractor did not breach the requirement stated in the issued CNP with the use of one derrick barge on Sunday and no noise nuisance should be generated by the bolt and nut tightening work performed on 23 August 2020.
13	24-Aug-20	26-Aug-20	Junk Bay	Mr Lee	Noise	CEDD	NA	The Complainant complained about the noise nusiance generated by hammering works on the derrick barge at Junk Bay on Sunday. He also enquiry whether the Construction Noise Permit will be displayed at the site entrance.	Contract 1 (NE/2017/07)	As advised by the Contractor of Contract 1 – Contract No. NE/2017/07 (CRBC), working platform setup work was carried out at pier W4 on 23 August 2020. One derrick barge was used for lifting work between 09:00 - 11:30. During the working platform setting up work, only lifting of platform material was carried out by the derrick barge at V-pier W4. Bolt and nut tightening work for the working platform was then carried out by the workers at pier W4. No hammering work was carried out on 23 August 2020. According to the issued Construction Noise Permit (CNP) GW-RE0438-20, derrick barge (group A, D, E of the PME listed in condition 3a of the CNP) is allowed to be operated on general holiday (including Sunday) 09:00 – 20:00. The operation of the derrick barge on 23 August 2020 was within the permitted hours. In addition, the issued CNP was displayed at the site entrance at Wan O Road for public inspection. It is considered the complaint is not related to the Project since no hammering work was carried out during the complaint period
14	14-Sep-20	15-Sep-20	Junk Bay	Unwilling to disclose	Water Quality	1823	NA	The Complainant complained about the suspected pollutant spilled at Junk Bay from the roro barge of the Project	Contract 1 (NE/2017/07) Contract 2 (NE/2017/08)	RSS noted the presence of the pollutant on 12 September 2020 at around 11:35 a.m. Trace of pollutant discharge was also found from the box culvert near the complaint location. Catch pits at the site office and at Wan O Road were checked once the pollutant was spotted on 12 September 2020. The catch pits were found clean and no pollutant discharge was found. In addition, no pollutant was observed during the operation of the roro barge. Joint site inspection among the Site Supervisor, the Contractors and ET was carried out on 16 September 2020. No marine pollutant was spotted at the complaint location and from the box culvert. In addition, discharge points of Contract 2 at Wan O Road were inspected and no trace pollutant discharge was observed. The IR revealed that the complaint is not related to the Project since the source of pollutants in the box culvert should be outside the site area of the Project, and there is no trace of pollutant discharged from the construction site and the roro barge.

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15	20-Sep-20	21-Sep-20	Junk Bay	Unwilling to disclose	Noise	CEDD	NA	The Complainant complained about the noise nuisance generated from the construction work conducted on 20 September 2020 at Junk Bay	Contract 1 (NE/2017/07)	As advised by the Contractor of Contract 1 – Contract No. NE/2017/07 (CRBC), concrete disposal and tidy up work were carried out at pier W1 on 20 September 2020. One derrick barge was used for lifting of concrete debris and formwork at pier W1. No concrete breaking was carried out on 20 September 2020 morning and no electric breaker and backhoe was used. According to the issued Construction Noise Permit (CNP) GW-RE0438-20, derrick barge (group A, D and E of the PME listed in condition 3a of the CNP) is allowed to be operated on general holiday (including Sunday) 09:00 – 20:00. The operation of the derrick barge on 20 September 2020 was within the permitted hours. In the view of the works carried out on 20 September 2020, the operation of derrick barge is considered as the only noise source from Cross Bay Link Project and the noise impact should not be significant to the surrounding NSRs since the pier W1 is located far away (over 900m away to Ocean Shores). Investigation indicated that the complaint is unlikely related to the Project since the noise generated from the derrick barge should be insignificant as the marine work area is located far away from the surrounding NSRs.
16	18-Oct-20	27-Oct-20	Work Area A	Unwilling to disclose	Noise	EPD	NA	The Complainant complained about the noise nuisance generated by Power Mechanical Equipment such as bar bender and cutter at Works Area A (Working Area 2 of the CNP) at around 09:00 and 17:30 on 18 October 2020 (Sunday)	Contract 1 (NE/2017/07)	As advised by the Contractor of Contract 1 – Contract No. NE/2017/07 (CRBC), stainless steel rebar cutting work with the use of grinder was performed at the complaint location by two workers without notification to CBRC and RSS on 18 October 2020 at around 09:00 hours. The rebar cutting work was spotted by RSS at around 09:15 hours and was stopped immediately. No rebar cutting work was believed to be carried out at 17:30 hours as these two workers were off-duty at 17:00 hours. According to the issued CNP GW-RE0819-20, the use of grinder is not allowed to be operated at working area 2 during restricted hours. A permit to work system had been implemented to ensure Contractor and RSS were notified in advance of any construction work during restricted hours, but the information may not have been properly delivered to frontline staff. After the incident was happened, a series of follow-up action were implemented by CRBC to ensure no prohibited construction work would be performed during restricted hours. The IR revealed that the complaint is related to the Project since stainless steel rebar cutting work was performed with the use of grinder in the complaint period. However, this should be a single incident and CRBC has carried out follow-up action to prevent the incident to be happened again.
17	27-Nov-20	27-Nov-20	D9 Road	Unwilling to disclose	Noise	1823	NA	The Complainant complained about the noise nuisance and the mosquito issue generated from the construction site at D9 Road.	Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 2 (Build King), pre-bored socketed H-piling work was carried out at Wan O Road near Lohas Park Phase 4 while no construction work was carried out at Wan O Road near Lohas Park Phase 2A on 27 November 2020.Noise mitigation measure such as erecting noise barrier was properly implemented by the Contractor during operation of pre-bored socket H-piling work near Lohas Park Phase 4. According to the recent noise monitoring event held at Lohas Park Phase 4 during the operation of the pre-bored socket H-piling work, the obtained monitoring result Leq30min is well below the noise criteria 75 db(A). This implies that the noise impact generated from the pre-bored socketed H-piling work should be acceptable at Lohas Park Phase 4. The IR revealed that the complaint is related to the Project. However, noise mitigation measure was implemented properly by the Contractor and no exceedance of noise monitoring result was recorded during the operation of the piling work. Nevertheless, the Contractor was reminded to implement the noise mitigation measures as far as practicable to reduce noise impact to the public.
18	24-Dec-20	24-Dec-20	Wan O Road	SKDC member Mr. CHEUNG Mei Hung	Noise	EPD	NA	The complainant complained the construction works near Lohas Park Phase 4 started at 9am on weekdays and cause noise nuisance to the resident. He urge the Contractor to schedule noisy construction activities such as breaking and piling works to be carried out after 10am on weekdays and enhance the noise mitigation measures with a view to minimise the noise nuisance to the nearby residents.	Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 2 – Contract No. NE/2017/08 (Build King), pre-bored socketed H-piling (PBSH) work was carried out at Wan O Road in early December 2020 and was completed on 11 December 2020. No noisy construction activities such as breaking and piling work was carried out at the complaint location after the completion of PBSH work on 11 December 2020. In the view of minimizing the noise nuisance to the nearby residents, the Contractor will schedule the coming noisy construction work such as sheet piling works after 10 am on Saturday. However, in order to catch up with the construction progress, the noisy construction work will be scheduled after 9 am on weekdays (i.e. Monday to Friday). The IR revealed that the complaint is not related to the Project since no noisy construction work was carried out during the complaint period. Nevertheless, the Contractor was reminded to implement the noise mitigation measures as far as practicable to reduce noise impact to the public.
19	18-Jan-21	27-Jan-21	Wan O Road	SKDC member Mr. CHEUNG Mei Hung	Noise	EPD	NA	The complainant complained the construction works near Lohas Park Phase 4 cause noise nuisance to the resident. He urge the Contractor to start the noisy construction activities as late as possible on each working day and enhance the noise mitigation measures to minimise the noise nuisance to the nearby residents. He would also like to know when the noisy construction activities will be finished.	Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 2 – Contract No. NE/2017/08 (Build King), sheet piling work was carried out near Lohas Park Phase 4 at Wan O Road in January 2021. The sheet piling work was scheduled after 9am on weekdays (i.e. Monday to Friday) and after 10 am on Saturday in order to minimize the noise nuisance to the nearby residents. The sheet piling work at Wan O Road is expected to be finished at the end of February 2021. In addition, noise mitigation measures such as movable noise barrier and the use of QPME were implemented properly. The IR revealed that the complaint is related to the Project. However, noise mitigation measure was implemented properly by the Contractor and no exceedance of noise monitoring result was recorded during the operation of the piling work. Nevertheless, the Contractor was reminded to implement the noise mitigation measures as far as practicable to reduce noise impact to the public.

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20	26-Feb-21	26-Feb-21	Wan O Road	Unwilling to disclose	Noise	CEDD	NA	The Complainant complained about the construction works near Lohas Park Phase 6 which cause noise nuisance to the resident.	Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 2 – Contract No. NE/2017/08 (Build King), concrete breaking work for seawall modification was carried out near Lohas Park Phase 6 at Road D9 during the complaint period. Noise mitigation measure such as erecting noise barrier was properly implemented by the Contractor during concrete breaking work work near Lohas Park Phase 6. According to the recent noise monitoring event held at Lohas Park Phase 4 during concrete breaking work, the obtained monitoring result Leq30min is well below the noise criteria 75 db(A). This implies that the noise impact generated from the concrete breaking work should be acceptable at Lohas Park Phase 6. The IR revealed that the complaint is related to the Project. However, noise mitigation measure was implemented properly by the Contractor and no exceedance of noise monitoring result was recorded during the operation of the breaking work. Nevertheless, the Contractor was reminded to implement the noise mitigation measures as far as practicable to reduce noise impact to the public.
21	17-Mar-21	17-Mar-21	Road D9	Resident of Lohas Park	Dust	CEDD	NA	The Complainant complained about dust problem at construction site which cause nuisance to Lohas Park Resident	Contract 1 (NE/2017/07) Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 1 - Contract No. NE/2017/07 (CRBC), no land base construction work was carried out near Road D9 during the complaint period. As advised by the Contractor of Contract 2 – Contract No. NE/2017/08 (Build King), excavation and lateral support (ELS) work was carried out near Lohas Park Phase 2A and excavation work was carried out near Lohas Park Phase 6 during the complaint period. Dust mitigation measure such as water spraying at work areea and installed water sprinkler system were properly implemented. The IR revealed that the complaint is related to the Project. However, dust mitigation measure was implemented properly by the Contractor and no exceedance of dust monitoring result was recorded during the comaplaint period. Nevertheless, the Contractor was reminded to implement the dust mitigation measures as far as practicable to reduce dust impact to the public.
22	10-Mar-21	18-Mar-21	Work Area A	Resident of Lohas Park 6	Noise	EPD	NA	The Complainant complained about the noise nuisance generated by hammering work at Works Area A between 07:00 and 07:30 on 10 March 2021.	Contract 1 (NE/2017/07)	According to the works schedule of Contract 1, no construction work was conducted at Works Area A on 10 March 2021 between 07:00 and 08:00. 3. RSS checked their own records and confirmed that there was no construction work carried out at Works Area A on 10 March 2021 between 07:00 and 08:00. The IR revealed that the complaint is not related to the Project since no construction work was carried out during the complaint period. Nevertheless, the Contractor was reminded to implement the noise mitigation measures as far as practicable to reduce noise impact to the public.
23	16-Mar-21	22-Mar-21	Junk Bay	Sai Kung District Council Member Mr. Lai Wai Tong	Noise	CEDD	NA	The complainant complained about the operation of working barge at Junk Bay at around 7 am in the morning which cause noise nuisance to nearby residents. He hope that the marine work can be started after 08:30 in order to reduce the nuisance to the residents.	Contract 1 (NE/2017/07)	According to the works schedule of Contract 1, all the marine work conducted between 15 and 20 March 2021 was commenced after 08:00 in the morning. No marine work was conducted between 07:00 and 08:00 from 15 to 20 March 2021. RSS checked their own records and confirmed that there was no marine work carried out between 07:00 and 08:00 from 15 to 20 March 2021. The IR revealed that the complaint is not related to the Project since no marine work was conducted during the complaint period. Nevertheless, the Contractor was reminded to implement the noise mitigation measures as far as practicable to reduce noise impact to the public.
24	18-Mar-21	22-Mar-21	Junk Bay	Ocean Shores Owner's Committee Chairman Chan Kai Wai	Noise	CEDD	NA	The complainant complained about the operation of working barge at Junk Bay at around 7 am on 21 February 2021 in the morning which cause noise nuisance to nearby residents.	Contract 1 (NE/2017/07)	According to the works schedule of Contract 1, no marine work was conducted between 07:00 and 08:00 on 21 February 2021.In addition, all the marine works conducted recently around the complaint period (i.e. between 17 and 24 February 2021) were commenced after 08:00 in the morning. RSS checked their own records and confirmed that there was no marine work carried out between 07:00 and 08:00 on 21 February 2021, and from 17 to 24 February 2021. The IR revealed that the complaint is not related to the Project since no marine work was conducted during the complaint period. Nevertheless, the Contractor was reminded to implement the noise mitigation measures as far as practicable to reduce noise impact to the public.
25	21-Mar-21	26-Mar-21	Junk Bay	Unwilling to disclose	Noise	1823	NA	The complainant complained about the operation of marine work on 21 March 2021 Sunday.	Contract 1 (NE/2017/07)	According to the works schedule of Contract 1, no marine work was conducted on 21 March 2021. RSS checked their own records and confirmed that there was no marine work carried out on 21 March 2021. The IR revealed that the complaint is not related to the Project since no marine work was conducted during the complaint period. Nevertheless, the Contractor was reminded to implement the noise mitigation measures as far as practicable to reduce noise impact to the public.
26	12-Apr-21	16-Apr-21	Junk Bay	Unwilling to disclose	Water Quality	1823	NA	The Complainant complained about the marine water pollution caused by the Project.	Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 2 – Contract No. NE/2017/08 (Build King), backfilling work was carried out at Portion III and formwork erection work was carried out at Portion VII on 12 April 2021 near the complaint location (Photo 1 and 2). No concreting works was carried out on 12 April 2021 at Portion III and VII. According to the photo record provided by the complainant, no construction work which might potentially produce sewage/muddy water was observed at that location. In addition, it is observed the site surface at Portion III and Portion VII was dry on 12 April 2021 and no trace of surface runoff/wastewater direct discharge from site was observed. The IR revealed that the complaint is not related to the Project since no sewage/muddy water would be generated by the construction work carried out at Portion III and Portion VII on 12 April 2021 and no trace of surface runoff/wastewater direct discharge was observed.

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27	29-Apr-21	4-May-21	Work Area B	Unwilling to disclose	Noise	EPD	Complaint NCF-N08/RE/000103 99-21	The Complainant complained about the noise nuisance caused by the operation of an automatic rebar cutting machine. The Complainant would also like to know whether a noise impact assessment was done for the machine operation and the consequent follow-up action.	Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 2 – Contract No. NE/2017/08 (Build King), the automatic rebar cutting machine is located at Works Area B and will be operated when rebar cutting work is required. In order to assess the noise impact of the automatic rebar cutting machine, the Contractor has conducted noise monitoring during operation of the machine and the measured noise level did not exceed 75 dB (A) noise criteria. In addition, the Contractor has erected noise barrier for the machine operation at Works Area B as noise mitigation measure to reduce the noise impact to the nearby resident. Although the IR revealed that the complaint is related to the Project, the Contractor has provided noise mitigation measure for the operation of automatic rebar cutting machine and no noise exceedance was recorded.
28	11-Jun-21	11-Jun-21	Wan O Road	Resident of Wings at Sea	Noise	ER	NA	The Complainant complained about the noise nuisance caused by the construction vehicles on 6 June 2021 at around 00:40 and 11 June 2021 at around 00:19.	Contract 1 (NE/2017/07) Contract 2 (NE/2017/08)	No construction activity was carried out during the restricted hours on 6 and 11 June 2021. However, there were two vehicles entered Contract 2 site area at Wan O Road for parking without permission during the complaint period. In order to avoid similar incident in the future, the Contractor of Contract 2 has provided the following measures:As provided a specific tool box talk to the security company and his on-site guards regarding the site entering procedure for both people and vehicles especially during restricted hours. A warning letter was issued to the security company and sub-contractor to prevent the reoccurrence of this incident in future. Instructed security guards and sub-contractors not to arrange their vehicle entering the site during restricted hours. The IR rereveled that complaint is related to Contract 2 of the Project. Upon received the complaint, the Contractor of Contract 2 has provided follow-up action to prevent the reoccurrence of this incident in future. Nevertheless, the Contractor was reminded to avoid any unnecessary activity during restricted hour in order to reduce noise impact to the public.
29	30-Jun-21	30-Jun-21	Junk Bay	Chan Kai Wai, Chairman of Ocean Shores	Noise	1823	NA	The Complainant complained about the operation of work barge at Junk Bay on Sunday 27 June 2021 at around 9:00.	Contract 1 (NE/2017/07)	Relocation of crane barge at Junk Bay from W5 to E7 which is within the working area 2 and 3 of the issued CNP with the use of tug boat was carried out on 27 June 2021 after 09:00. No PME operated before 09:00 on 27 June 2021. According to the issued CNP GW-RE0575-21, tug boat is allowed to operate in working area 2 and 3 between 0900 – 2200 hours during general holiday (including Sunday). During the relocation of crane barge by tug boat, there is no other operation at the working areas and on the crane barge which requires PME and may create noise nuisance during the complaint period. It is confirmed by RSS that only one group of powered mechanical equipment stated in the issued Construction Noise Permit (CNP) GW-RE0575-21 was used by CRBC during the crane barge relocation work and it was complied with the requirement under the CNP. The IR indicated that the complaint is related to Contract 1 of the Project. However, it is allowed to operate the tug boat on Sunday 0900 – 2200 hours according to the issued CNP and the Contractor has strictly followed the CNP requirement.
30	30-Jun-21	2-Jul-21	Road D9	Resident of Lohas Park Phase 6	Water Quality	1823	NA	The Complainant complained about the muddy water observed construction site at Road D9 waterfront at 26 June 2021.	Contract 2 (NE/2017/08)	Formwork erection and rebar fixing work were carried out at Portion VI near Lohas Park Phase 4 on 26 June 2021. WetSep were provided as water mitigation measures by the Contractor to treat any wastewater and surface runoff prior to discharge. Although no wastewater was generated from the formwork erection and rebar fixing work, surface runoff was generated due to rainy weather. According to Contractor's record, all the surface runoff was treated by the WetSep prior to discharge and the WetSep was functioning properly on 26 June 2021. During the weekly inspection by ET on 23 June 2021, muddy water was also observed in Junk Bay being discharged from the box culvert (Photo 3). No muddy water discharged from site was found during the inspection. The IR revealed that the complaint is not related to the Project since all the wastewater generated was treated prior to discharge and the source of the muddy water was unlikely from the Project. Nevertheless, the Contractor was reminded to strictly implement the water mitigation measures for any works relating to seawall modification as far as practicable to avoid any water quality impact to the surrounding environment.
31	25-Jun-21	5-Jul-21	Junk Bay	Chan Kai Wai, Chairman of Ocean Shores	Light Pollution	1823	NA	The Complainant complained about the operation of work barge and light pollution on 25 June 2021 at 00:01.	Contract 1 (NE/2017/07)	No marine work was conducted on 24 June 2021 night time (23:00 – 07:00). The Contractor of Contract 1 (CRBC) advised that the illumination (e.g. flashlight, headlight) on the crane barge is required for safety reason - to keep the barge being visible and to avoid collision by other marine vessel. In order to minimize the light nuisance to the public, the Contractor has already kept the illumination on the crane barge to a minimum at night. The IR revealed that the complaint is related to the Project since the concern barge is belong to Contract 1 of the Project. However, no marine work was carried out at the complaint period and the illumination on the crane barge was kept to a minimum. Nevertheless, the Contractor were reminded to implement the environmental mitigation measures as far as practicable to reduce the environmental impact arise from the construction site.
32	11-Jul-21	14-Jul-21	Junk Bay	Unwilling to disclose	Noise	1823	NA	The Complainant complained about the operation of work barge at Junk Bay on Sunday 11 July 2021 at around 12:24 and queried whether construction noise permit was obtained.	Contract 1 (NE/2017/07)	Load test was carried out by a crane barge at Junk Bay at E2 which is within the working area 2 of the issued CNP. According to the issued CNP GW-RE0575-21, one crane barge is allowed to operate in working area 2 between 0900 – 2200 hours during general holiday (including Sunday). During the load test carried out by the crane barge, there is no other operation at the working area 2 which requires PME and may create noise nuisance during the complaint period. It is confirmed by RSS that only one group of powered mechanical equipment stated in the issued Construction Noise Permit (CNP) GW-RE0575-21 was used by CRBC during the load test and it was complied with the requirement under the CNP. The IR revealed that the complaint is related to Contract 1 of the Project. However, it is allowed to operate the crane barge on Sunday 0900 – 2200 hours according to the issued CNP and the Contractor has strictly followed the CNP requirement.
33	11-Jul-21	14-Jul-21	Junk Bay	Unwilling to disclose	Noise	1823	NA	The Complainant complained about the operation of work barge at Junk Bay on Sunday 11 July 2021 at around 12:18.	Contract 1 (NE/2017/07)	Load test was carried out by a crane barge at Junk Bay at E2 which is within the working area 2 of the issued CNP. According to the issued CNP GW-RE0575-21, one crane barge is allowed to operate in working area 2 between 0900 – 2200 hours during general holiday (including Sunday). During the load test carried out by the crane barge, there is no other operation at the working area 2 which requires PME and may create noise nuisance during the complaint period. It is confirmed by RSS that only one group of powered mechanical equipment stated in the issued Construction Noise Permit (CNP) GW-RE0575-21 was used by CRBC during the load test and it was complied with the requirement under the CNP. The IR revealed that the complaint is related to Contract 1 of the Project. However, it is allowed to operate the crane barge on Sunday 0900 – 2200 hours according to the issued CNP and the Contractor has strictly followed the CNP requirement.

Log ref.	Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Contract Related	Follow up action
34	11-Jul-21	15-Jul-21	Junk Bay	Unwilling to disclose	Noise	1823	NA	The Complainant complained about the operation of work barge at Junk Bay on Sunday 11 July 2021 at around 12:37 and queried whether construction noise permit was obtained.	Contract 1 (NE/2017/07)	Load test was carried out by a crane barge at Junk Bay at E2 which is within the working area 2 of the issued CNP. According to the issued CNP GW-RE0575-21, one crane barge is allowed to operate in working area 2 between 0900 – 2200 hours during general holiday (including Sunday). During the load test carried out by the crane barge, there is no other operation at the working area 2 which requires PME and may create noise nuisance during the complaint period. It is confirmed by RSS that only one group of powered mechanical equipment stated in the issued Construction Noise Permit (CNP) GW-RE0575-21 was used by CRBC during the load test and it was complied with the requirement under the CNP. The IR revealed that the complaint is related to Contract 1 of the Project. However, it is allowed to operate the crane barge on Sunday 0900 – 2200 hours according to the issued CNP and the Contractor has strictly followed the CNP requirement.
35	11-Jul-21	15-Jul-21	Junk Bay	Unwilling to disclose	Noise	EPD	NA	The Complainant complained about the operation of work barge at Junk Bay on Sunday 11 July 2021 at around 02:50 and queried whether construction noise permit was obtained.	Contract 1 (NE/2017/07)	No marine work was conducted on 11 July 2021 during the complaint period. The Contractor of Contract 1 (CRBC) advised that the illumination (e.g. flashlight, headlight) on the crane barge is required for safety reason - to keep the barge being visible and to avoid collision by other marine vessel. The IR revealed that the complaint is related to the Project since the concern barge is belong to Contract 1 of the Project. However, the complaint was considered not valid since no marine work was carried out at the complaint period. Nevertheless, the Contractor was reminded to strictly follow the requirement stated in the issued Construction Noise Permit if there is any construction work carried out in restricted hours.
36	16-Jul-21	20-Jul-21	Junk Bay	Unwilling to disclose	Noise	EPD	NA	The Complainant complained about the operation of work barge at Junk Bay on 16 July 2021 at around 01:00.	Contract 1 (NE/2017/07)	Welding work was conducted within the steel Arch Bridge in Junk Bay which is within the working area 3 of the issued CNP with the use of one welding machine and one generator during the complaint period. According to the issued CNP GW-RE0575-21, welding work is allowed to operate in working area 3 between 2300 – 0700 hours during any day. It is confirmed by RSS that only one group of powered mechanical equipment stated in the issued Construction Noise Permit (CNP) GW-RE0575-21 was used by CRBC during the welding work and it was complied with the requirement under the CNP. The IR revealed that the complaint is related to Contract 1 of the Project. However, it is allowed to operate the welding machine in working area 3 between 2300 – 0700 hours during any day according to the issued CNP and the Contractor has strictly followed the CNP requirement.
37	30-Aug-21	3-Sep-21	Junk Bay	SKDC member Mr. Cheung Mei Hung	Water Quality	EPD	N08/RE/00020812-21	The Complainant complained about the polluting discharge suspected from the construction site of Cross Bay Link Project at about 18:00 28 August 2021 and about 10:00 on 29 August 2021	Contract 2 (NE/2017/08)	Formwork erection and rebar fixing work were carried out near Lohas Park Phase 6 on 28 August 2021 (Sat) (Photo 1) and no construction work was carried out on 29 August 2021 (Sun). No concreting work nor other construction works that may generate contaminated/muddy water was carried out near Lohas Park Phase 6 on 28 Aug 2021 (Sat) and on 29 August 2021 (Sun). According to the photo record provided by the complainant (Photo 2), no construction work which might potentially produce contaminated/muddy water and no trace of surface runoff/wastewater direct discharge from site was observed. The polluting discharged from the communal storm water drain should come from other sources. The IR revealed that the complaint is not due to the Project since no contaminated/muddy water would be generated by the construction work on 28 and 29 August 2021 and no trace of surface runoff/wastewater direct discharge was observed. Nevertheless, the Contractor was reminded to strictly implement the water mitigation measures on site as far as practicable to avoid any water quality impact to the surrounding environment.
38	9-Sep-21	10-Sep-21	D9 Road	Resident of Lohas Park	Noise	1823	NA	The Complainant complained about the noise nuisance generated from PME or generator at site area near D9 Road.	Contract 1 (NE/2017/07) Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 1 – Contract No. NE/2017/07 (CRBC) and Contract 2 – Contract No. NE/2017/08 (Build King), no construction work was carried out, and no operation of PME and generator was performed at site area near Road D9 and at Works Area A during restricted hours in September 2021. RSS also confirmed that there is no construction work and no operation of PME during the abovementioned period at the complaint location. The IR revealed that the complaint is unlikely due to the Project since no construction work was carried out during restricted hours near Road D9 in September 2021. Nevertheless, the Contractor was reminded to strictly follow the requirement stated in the issued construction noise permit when construction work is required during restricted hours.
39	29-Dec-21	29-Dec-21	D9 Road	Unwilling to disclose	Noise	1823	NA	The Complainant complained about the frequency noise from the Project	Contract 1 (NE/2017/07)	As advised by the Contractor of Contract 1 – Contract No. NE/2017/07 (CRBC), all the evening marine work carried out in December 2021 were finished by 22:00 each day. No construction work and no operation of PME was carried out during 22:00 – 00:30 in December 2021. It is also confirmed by RSS that there is no construction work and no operation of PME during the complaint period under the Project. The IR revealed that the complaint is unlikely due to the Project since no construction work was carried out during the complaint period. Nevertheless, the Contractor was reminded to strictly follow the requirement stated in the issued construction noise permit when construction work is required during restricted hours.

Log ref.	Date of Complaint	Date of Received by ET	Complaint Location	Complainant	Complaint nature	Channel	Ref. no.	Complaint details	Contract Related	Follow up action
40	7-Feb-22	17-Feb-22	D9 Road	Unwilling to disclose	Water Quality	EPD	N08/RE/00003264-22	The Complainant complained about the muddy discharge at construction site of Cross Bay Link Project at 09:45 on 7 February 2022	Contract 2 (NE/2017/08)	As advised by the Contractor of Contract 2 – Contract No. NE/2017/08 (Build King), backfilling work was carried out near Lohas Park Phase 6 on 7 February 2022. No concreting work nor other construction works that may generate muddy water was carried out near Lohas Park Phase 6 on 7 February 2022. According to the photo record provided by the complainant, no muddy water was observed on site and no trace of surface runoff/wastewater direct discharge from site was observed. The muddy water discharged from the communal storm water drain should come from other sources. The IR revealed that the complaint is not due to the Project since no muddy water would be generated by the construction work on 7 February 2022 and no trace of surface runoff/wastewater direct discharge was observed. Nevertheless, the Contractor was reminded to strictly implement the water mitigation measures on site as far as practicable to avoid any water quality impact to the surrounding environment.

Appendix I

Implementation Schedule for Environmental Mitigation Measures

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
Dust Impact (Contraction Phase)						
S5.5.5.1	Regular watering under good site practice shall be adopted. In accordance with the "Control of Open Fugitive Dust Sources" (USEPA AP-42), watering once per hour on exposed worksites and haul road is recommended to achieve dust removal efficiency of 91.7%.	Good construction site practices to control the dust impact on the nearby sensitive receivers to within the relevant criteria	All construction sites	Contractor	Construction stage	• APCO (Cap. 311); and • Air Pollution Control (Construction Dust) Regulation
S5.5.5.3	The following dust suppression measures shall also be incorporated by the Contractor to control the dust nuisance throughout the construction phase: • Any excavated or stockpiled dusty material shall 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 shall be wetted with water and cleared from the surface of roads; • A stockpile of dusty material shall not extend beyond the pedestrian barriers, fencing or traffic cones; • The load of dusty materials on a vehicle leaving a construction site shall 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 shall be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point shall be paved with concrete, bituminous materials or hardcores; • When there are open excavation and reinstatement works, hoarding of not less than 2.4m high shall 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 period; • The portion of any road leading to the construction site that is within 30m of a vehicle entrance or exit shall be kept clear	Good construction site practices to control the dust impact on the nearby sensitive receivers to within the relevant criteria	All construction sites	Contractor	Construction stage	• APCO (Cap. 311); and • Air Pollution Control (Construction Dust) Regulation

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	of dusty materials; • Surfaces where any pneumatic or power driven drilling, cutting, polishing or other mechanical breaking operation takes place shall be sprayed with water or a dust suppression chemical continuously; • Any area that involves demolition activities shall 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 shall 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 shall be totally enclosed by impervious sheeting; • Exposed earth shall be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, 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.					
S5.5.5.4	For the barging facilities at the site compound, the following good site practice is required: • All road surfaces within the barging facilities shall be paved. • Vehicles should pass through designated wheel wash facilities. • Continuous water spray shall be installed at the loading point.	Good construction site practices to control the dust impact on the nearby sensitive receivers to within the relevant criteria	Site compound	Contractor	Construction stage	• APCO (Cap. 311); and • Air Pollution Control (Construction Dust) Regulation
S5.5.5.5	An audit and monitoring programme during the construction phase should be implemented by the Contractor to ensure that the construction dust impacts are controlled to within the HKAQO. Detailed requirements for the audit and monitoring programmes are given separately in the EM&A manual.	Monitor the 1-Hour and 24-Hr TSP levels at the representative dust monitoring stations to ensure compliance with relevant criteria throughout the construction period	Selected representative dust monitoring station (**Drawing no. 209506/EMA/ AIR/001**)	Contractor	Construction stage	• APCO (Cap. 311); and • Air Pollution Control (Construction Dust) Regulation
Noise Impact (Contraction Phase)						

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
S6.6.4.3	Good site practice and noise management techniques: • Only well-maintained plant shall be operated on-site and the plant shall be serviced regularly during the construction programme; • Machines and plant (such as trucks, cranes) that are in intermittent use shall be shut down between work periods or throttled down to a minimum; • Plant known to emit noise strongly in one direction, where possible, shall be orientated so that the noise is directed away from nearby NSRs; • Silencers or mufflers on construction equipment shall be properly fitted and maintained during the construction works; • Mobile plant shall be sited as far away from NSRs as possible and practicable; and • Material stockpiles, site office and other structures shall be effectively utilised, where practicable, to screen noise from on-site construction activities.	To minimize construction noise impact arising from the Project on the affected NSRs	All construction sites	Contractor	Construction stage	• Annex 5, TM-EIAO
S6.6.4.5-6	Use of quiet powered mechanical equipment and working methods	Reduce noise levels of plant items	All construction sites	Contractor	Construction stage	• Annex 5, TM-EIAO
S6.6.4.7	Install site hoarding at the site boundaries between noisy construction activities and NSRs	Reduce the construction noise levels at low-level zone of NSRs through partial screening	All construction sites	Contractor	Construction stage	• Annex 5, TM-EIAO
S6.6.4.8-11	Use of temporary or movable noise barriers and full enclosure for relatively fixed plant source	Screen the noisy plant items to be used at all construction sites	For plant items listed in Table 6.7 and Appendix 6.1 of the EIA report at all construction sites	Contractor	Construction stage	• Annex 5, TM-EIAO
	Implement a noise monitoring programme under the EM&A manual	Monitor the construction noise levels at the selected representative locations	Selected representative noise monitoring stations (**Drawing no. 209506/EMA/NS/001** & **209506/EMA/NS/002**)	Contractor	Construction stage	• Annex 5, TM-EIAO
S6.7.3.1	Partial enclosures along Road D9 and application of low noise surfacing material along CBL and Road D9	To minimize road traffic noise impact arising from the CBL and Road D9 on the affected NSRs	CBL and Road D9 (**Drawing no. 209506/EMA/NS/003**)	CEDD/ Contractor	During operational stage	• Annex 5, TM-EIAO

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
Water Quality Impact (Contraction Phase)						
S8.6.4.3	Marine Piling and Pile Excavation Works Marine piling and pile excavation works shall be undertaken in such a manner as to minimize re-suspension of sediments. Standard good practice measures shall be implemented, including the following requirements: • All marine piling and pile excavation works shall be conducted within a floating single silt curtain. • Mechanical closed grabs (with a size of5m3) shall be designed and maintained to avoid spillage and should seal tightly while being lifted. • Barges shall have tight fitting seals to their bottom openings to prevent leakage of material. • Any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes. • Loading of barges shall be controlled to prevent splashing of dredged material to the surrounding water. Barges shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation. • Excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved. • Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action. • All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash. • The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site.	To control potential impacts from marine piling and pile excavation works	During marine piling and pile excavation works	Contractor	Construction stage	• TM-EIAO; and • WPCO
S8.6.4.4	Construction Site Runoff In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures, where appropriate, shall include the following: • The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The	Control potential water quality impacts from construction site run-off	All construction sites	Contractor	Construction stage	• TM-EIAO; and • WPCO

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	detailed design of the sand/silt traps shall be undertaken by the contractor prior to the commencement of construction; • Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 shall be covered with tarpaulin or similar fabric during rainstorms. Measures shall be taken to prevent the washing away of construction materials, soil, silt or debris into any marine water bodies; • All vehicles and plant shall be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities shall be provided at every construction site exit where practicable. Wash-water shall have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road shall be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains; • Construction solid waste, debris and rubbish on site shall be collected, handled and disposed of properly to avoid water quality impacts; • All fuel tanks and storage areas shall be provided with locks and sited on sealed areas, within bunds 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; and • Regular environmental audit on the construction site shall be carried out in order to prevent any malpractices. Notices shall be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the meander, wetlands and fish ponds.					
S8.6.4.6	Sewage from workforce • Portable chemical toilets and sewage holding tanks shall be provided for handling the construction sewage generated by the workforce; • A licensed contractor shall be employed to provide	Control potential water quality impacts from sewage	All construction sites	Contractor	Construction stage	• TM-EIAO; and • WPCO

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.					
	Monitoring Implement a marine water quality monitoring programme under the EM&A on level of suspended solids (SS) / turbidity and dissolved oxygen (DO) shall be carried out.	Control potential water quality impacts from marine piling and pile excavation works	Selected monitoring stations (**Drawing no. 209506/EMA/WQ/001**)	Contractor	Construction station	• TM-EIAO; and • WPCO
S8.7.3.2	**Operational phase – Runoff from road surface** Proper drainage systems with silt traps and oil interceptors shall be installed, maintained and cleaned at regular intervals.	Control potential water quality impacts from road surface runoff	CBL and Road D9	Contractor	Construction and operational stage	• TM-EIAO; and • WPCO
Waste Management (Contraction Phase)						
S9.5.2	**Good Site Practices** Recommendations for good site practices: • Nomination of an approved personnel to be responsible for the implementation of good site practices, arrangements for collection and effective deposal to an appropriate facility of all wastes generated at the site; • Training of site personnel in proper waste management and chemical handling procedures; • Provision of sufficient waste disposal points and regular collection for disposal; • Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre; • Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and • Implementation of a recording system for the amount of wastes generated/recycled and disposal sites.	Good site practices which ensure waste generated during construction phase is properly managed	All construction sites	Contractor	Construction stage	• Waste Disposal Ordinance (Cap. 54); • ETWB TCW No. 19/2005

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
S9.5.4	**Waste Reduction Measures** Recommendations for achieving waste reduction include: • On-site reuse of any material excavated as far as practicable; • Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal; • Collection of aluminum cans and waste paper by individual collectors during construction should be encouraged. Separately labelled recycling bins should also be provided to segregate these wastes from other general refuse by the workforce; • Recycling of any unused chemicals and those with remaining functional capacity as far as possible; • Prevention of the potential damage or contamination to the construction materials though proper storage and good site practices; • Planning and stocking of construction materials should be made carefully to minimize amount of waste generated avoid unnecessary generation of waste; and • Training on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling should be provided to workers.	To reduce amount of waste generated during construction phase	All construction sites	Contractor	Construction stage	• Waste Disposal Ordinance (Cap. 54); • ETWB TCW No. 19/2005
S9.5.5-6	**Storage, Collection and Transportation of Waste** Recommendations for proper storage include: • 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 being washed away and to reduce wind-blown litter; and • Different locations should be designated to stockpile each material to enhance reuse. With respect to the collection and transportation of waste from the construction works, the following is recommended: • Remove waste in a timely manner; • Employ trucks with cover or enclosed containers for waste transportations; • Obtain relevant waste disposal permits from the appropriate	To reduce the environmental implications of improper storage	All construction sites	Contractor	Construction stage	• Waste Disposal Ordinance (Cap. 54); • ETWB TCW No. 19/2005

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	authorities; and • Disposal of waste should be done at licensed waste disposal facilities.					
S9.5.8-11	**C&D Materials** The following mitigation measures shall be implemented in handling the waste: • Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; • Carry out on-site sorting; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; • Disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final disposal sites to the Project Proponent and get its approval before implementation; • Standard formwork or pre-fabrication order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage; and • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	All construction sites	Contractor	Construction stage	• Waste Disposal Ordinance (Cap. 54); • ETWB TCW No. 19/2005 • ETWB TCW No. 06/2010
S9.5.13	**Excavated Marine Sediments** During transportation and disposal of the excavated marine sediments, the following measures shall be taken to minimize potential environmental impacts: • Bottom opening of barges should be fitted with tight fitting	To minimize potential impacts on water quality	All construction sites where applicable	Contractor	Construction stage	• ETWBTC (Works) No. 34/2002

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	seals to prevent leakage of material. Excess material should be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved; • Monitoring of the barge loading should be conducted to ensure that loss of material does not take place during transportation; • Transport barges or vessels should be equipped with automatic self-monitoring devices as specified by the DEP; and • Barges should not be filled to a level that would cause the overflow of materials or sediment-laden water during loading or transportation.					
S9.5.14-17	For those processes which generate chemical waste, the Contractor shall identify any alternatives that generate reduced quantities or even no chemical waste, or less dangerous types of chemical waste. If chemical waste is produced at the construction site, the Contractor is required to register with EPD as chemical waste producers. Chemical waste shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows. Containers used for storage of chemical wastes shall: • Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; • Have a capacity of less than 450 L unless the specification have been approved by EPD; and • Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations. The storage area for chemical wastes shall: • Be clearly labelled and used solely for the storage of chemical wastes; • Be enclosed on at least 3 sides; • Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest;	To ensure proper management of chemical waste	All construction sites	Contractor	Construction stage	• Waste Disposal (Chemical Waste) (General) Regulation; • Code of Practice on the Packaging, Labelling and Storage of Chemical Waste

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	• Have adequate ventilation; • Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste, if necessary); and • Be arranged so that incompatible materials are adequately separated. Disposal of chemical waste shall: • Be via a licensed waste collector; and • Be to a facility licensed to receive chemical waste, such as the CWTC which also offers a chemical waste collection service and can supply the necessary storage containers; or • Be to a re-user of the waste, under approval from EPD.					
S9.5.18	**Sewage** An adequate number of portable toilets shall be provided for the on-site construction workers. Any waste shall be transferred to a sewage treatment works by a licensed collector.	Proper handling of sewage from worker to avoid odour, pest and litter impacts	All construction sites	Contractor	Construction stage	• Waste Disposal Ordinance (Cap. 54)
S9.5.19	**General Refuse** General refuse generated on-site shall be stored in enclosed bins or compaction units separately from construction and chemical wastes. Recycling bins shall also be provided to encourage recycling. A reputable waste collector shall be employed by the Contractor to remove general refuse from the site on a daily basis separately from the construction and chemical wastes. Burning of refuse on construction sites is prohibited by law.	Minimize production of general refuse and avoid odour, pest and litter impacts	All construction sites	Contractor	Construction stage	• Waste Disposal Ordinance (Cap. 54)
S10.7.2.4	Good Site Practices – The integrity and effectiveness of all silt curtains shall be regularly inspected. Effluent monitoring should be incorporated to make sure that the discharged effluent from construction sites meets the relevant effluent discharge guidelines.	To minimize potential impacts on water quality and protect marine communities within Junk Bay	All construction sites	Contractor	Construction stage	• TM-EIAO; and • WPCO
S10.7.2.5	Site runoff control – For works on land, standard site runoff control measures will be established and strictly enforced to ensure that discharge of contaminated or silt-laden runoff into marine waters is minimized.	To minimize potential impacts on water quality and protect marine communities within Junk Bay	All construction sites	Contractor	Construction stage	• TM-EIAO; and • WPCO
S10.9.1.1	The marine water quality monitoring programme recommended in Chapter 8 of this EIA report and this EMIS would also serve to protect the marine communities inside Junk Bay.	To minimize potential impacts on water quality and protect marine	Selected monitoring stations (**Drawing no. 209506/EMA/WQ/001**)	Contractor	Construction stage	• TM-EIAO; and • WPCO

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
		communities within Junk Bay				
S11.6.2.2	Good Site Practices: – The integrity and effectiveness of all silt curtains should be regularly inspected. Effluent monitoring shall be incorporated to make sure that the discharged effluent from construction sites meets the relevant effluent discharge guidelines.	To minimize potential impacts on water quality and protect fishery resources	All construction sites	Contractor	Construction stage	• TM-EIAO; and • WPCO
S11.6.2.3	Site runoff control - For works on land, standard site runoff control measures will be established and strictly enforced to ensure that discharge of contaminated or silt-laden runoff is minimized.	To minimize potential impacts on water quality and protect fishery resources	All construction sites	Contractor	Construction stage	• TM-EIAO; and • WPCO
S11.8.1.1	The marine water quality monitoring programme recommended in Chapter 8 of this EIA report and this EMIS would also serve to protect the fishery resources.	To minimize potential impacts on water quality and protect fishery resources	Selected monitoring stations (**Drawing no. 209506/EMA/WQ/001**)	Contractor	Construction stage	• TM-EIAO; and • WPCO
Landscape and Visual						
S13.8.1.2	The following mitigation measures should be implemented in the construction stage • CM1 – The construction area and contractor's temporary works areas should be minimized to avoid impacts on adjacent landscape. • CM2 – Reduction of construction period to practical minimum. • CM3 – Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where the soil material meets acceptable criteria and where practical. The Contract Specification shall include storage and reuse of topsoil as appropriate. • CM4 – Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	Minimize effects of landscape and visual impacts	Work site/during construction	Funded and implemented by CEDD	Construction stage	

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	• CM5 – Trees unavoidably affected by the works shall be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. • CM6 – Advance screen planting to proposed roads and associated structures. • CM7 – hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone). • CM8 – Screening of construction works by hoardings/noise barriers around works area in visually unobtrusive colours, to screen Works. • CM9 – Control night-time lighting and glare by hooding all lights. • CM10 – Ensure no run-off into water body adjacent to the Project Area. • CM11 – Avoidance of excessive height and bulk of buildings and structures					
S13.8.1.2	OM1 – Compensatory tree planting for all felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006.	Minimize effects of landscape and visual impacts	Within the site boundary of the proposed works	Funded and implemented by CEDD. Maintained by CEDD and LCSD.	Design, construction and operational stages	
S13.8.1.2	The following mitigation measures should be implemented in the operational stage: • OM2 – A continuous belt of screen planting along the roads. Planting of the belt of trees shall be carried out as advance works ahead of other site formation and building works. • OM3 – Maximise soft landscape of the site, where space permits, roadside berms /slope treatment works should be created. • OM4 – During detailed design, refine structure layout to create a planting strips along the roads to enhance greenery. • OM5 – Use appropriate (visually unobtrusive and	Minimize effects of landscape and visual impacts	CBL and Road D9/during construction and operation	Funded and implemented by CEDD. Maintained by CEDD and LCSD.	Design, construction and operational stages	

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	non-reflective) building materials and colours, and aesthetic design in built structures. • OM6 – Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimizes potential negative landscape and visual impacts. Lighting units should be directional and minimize unnecessary light spill. • OM7 – Avoidance of excessive height and bulk of buildings and structures					
Landfill Gas						
S14.7.5	Precautionary measures The following guidance has been extracted from the EPD's Landfill Gas Hazard Assessment Guidance Note Guidance to ensure a robust and comprehensive set of measures to protect workers are provided. • During all works, safety procedures shall be implemented to minimize the risks of fires and explosions, asphyxiation of workers (especially in confined space) and toxicity effects resulting from contact with contaminated soils and groundwater. • Safety officers who are specifically trained with regard to LFG and leachate related hazards and the appropriate actions to take in adverse circumstances shall be present on all worksites throughout the works. • All personnel who work on site and all visitors to the site shall be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it. • Those staff who work in, or have responsibility for "at risk" areas, including all excavation workers, supervisors and engineers working within the consultation zone, shall receive appropriate training on working in areas susceptible to LFG hazards. • Enhanced personal hygiene practices including washing thoroughly after working and eating only in "clean" areas shall be adopted where contact may have been made with any groundwater which is thought to be contaminated with	Health and safety of the workers	Construction sites within 250m Consultation Zone (**Drawing no. 209506/EMA/LFG/001**)	Contractor	Construction stage	• Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	leachate. • Ground level construction plant shall be fitted with vertical exhausts at least 0.6m above ground level and with spark arrestors. • During piping assembly or ducting construction, all valves/seals shall be closed immediately after installation. As construction progresses, all valves/seals should be closed as installed to prevent the migration of gases through the pipeline/conduit. All piping /ducting shall be capped at the end of each working day. • Mobile offices, equipment stores, mess rooms etc. shall be located on an area which has been proven to be gas free (by survey with portable gas detectors) and ongoing monitoring shall be carried out to ensure that these areas remain gas free. Alternatively, such buildings shall be raised clear of the ground. If buildings are raised clear of the ground, the minimum, clear separation distance (as measured from the highest point on the ground surface to the underside of the lowest floor joist) shall be 500mm. However, in this case, it is highly recommended that all the site offices, equipment stores and mess rooms should be located outside the 250m Consultation Zone. • Smoking and naked flames shall be prohibited within confined spaces. "No Smoking" and "No Naked Flame" notices in Chinese and English shall be posted prominently around the construction site. Safety notices shall be posted warning of the potential hazards. • Welding, flame-cutting or other hot works may only be carried out in confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Office. The permit to work procedure shall set down clearly the requirements for continuous monitoring of methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure shall also require the presence of an appropriately qualified person who shall be responsible for reviewing the gas measurements as they are made, and who shall have executive responsibility for suspending the work in the event of					

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	unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise shall be permitted to carry out hot works in confined areas. • During the construction works, adequate fire extinguishers and breathing apparatus sets shall be made available on site and appropriate training given in their use.					
S14.7.6	**Landfill gas monitoring** The following monitoring shall be undertaken when construction works are carried out in confined space within the 250m Consultation Zone: • The works area shall be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring requirements and procedures specified in Paragraphs 8.23 to 8.28 of EPD's Guidance Note shall be followed. The monitoring frequency and areas to be monitored shall be set down prior to commencement of the works. Depending on the results of the measurements, actions required will vary. As a minimum these shall encompass the actions specified in Table 14.6 of the EIA report. • When portable monitoring equipment is used, the frequency and areas to be monitored should be set down prior to commencement of the works either by the Safety Officer or by an appropriately qualified person. • All measurements shall be made with the monitoring tube located not more than 10mm from the surface. • A standard form, detailing the location, time of monitoring and equipment used together with the gas concentrations measured, shall be used when undertaking manual monitoring to ensure that all relevant data are recorded. • If methane (flammable gas) or carbon dioxide concentrations are in excess of the trigger levels or that of oxygen is below the level specified in the Emergency Management in the following section, then evacuation shall be initiated.	Health and safety of the workers	Confined space of construction sites within 250m Consultation Zone	Contractor	Construction stage	• Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)
S14.7.8-9	**Emergency management** In the event of the trigger levels specified in Table 14.6 of the EIA report being exceeded, a person, such as the Safety	Health and safety of the workers	Confined space of construction sites within 250m Consultation Zone	Contractor	Construction stage	• Landfill Gas Hazard Assessment

EIA Ref	Environmental Protection Measures/ Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Location/ Timing	Implementation		Requirements and/or Standards to be Achieved
				Agent	Stage	
	Officer, shall be nominated, with deputies, to be responsible for dealing with any emergency which may occur due to LFG. In an emergency situation the nominated person, or his deputies, shall have the necessary authority and shall ensure that the confined space is evacuated and the necessary works implemented for reducing the concentrations of gas.					Guidance Note (EPD/TR8/97)
S14.7.16	**Protection measures – Operational phase** • An assumed presence of landfill gas shall be adopted at all times by maintenance workers; • all maintenance workers inspecting any manhole shall be fully trained in the issue of LFG hazard; • any manhole which is large enough to permit to access to personnel shall be subject to entry safety procedure; • Code of Practice on Safety and Health at Work in Confined Spaces shall be followed to ensures compliance with the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance; • a strictly regulated "work permit procedure" shall be implemented and the relevant safety procedures must be rigidly followed; and • Adequate communication with maintenance staff shall be maintained with respect to LFG.	Health and safety of the workers	Utility maintenance areas within 250m Consultation Zone/during operational period	Utility companies	Operational stage	• Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97); and • Code of Practice on Safety and Health at Work in Confined Space
S14.7.17	**General recommended precautionary & protection measures – Operational phase** LGF surveillance exercise shall be undertaken by the utility companies at the utility manholes/inspection chambers. The surveillance exercise shall be undertaken for the duration of the site occupancy, or until such time that EPD agree that surveillance is no longer required and this shall be based on all the available monitoring data for methane, carbon dioxide and oxygen.	Health and safety of the workers	Utility maintenance areas within 250m Consultation Zone/during operational period	Utility companies	Operational stage	• Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97); and • Code of Practice on Safety and Health at Work in Confined Space