

Lam Environmental Services Limited

Service Contract No: EDO/01/2017 Environmental Team for Development of Anderson Road Quarry Site Road Improvement Works Monthly EM&A Report (April 2023)

#### SERVICE CONTRACT NO: EDO/01/2017

#### ENVIRONMENTAL TEAM FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE -ROAD IMPROVEMENT WORKS

#### UNDER ENVIRONMENTAL PERMIT NO. EP-513/2016

#### MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

**APRIL 2023** 

CLIENTS:

Civil Engineering and Development Department

#### PREPARED BY:

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**CERTIFIED BY:** 

Victor Wong Environmental Team Leader

DATE:

May 2023



Civil Engineering and Development Department	Your reference:	
East Development Office		
8/F, South Tower, West Kowloon Government Offices	Our reference:	HKCEDD12/50/108792
11 Hoi Ting Road		
Yau Ma Tei	Date:	15 May 2023
Kowloon		,

#### Attention: Mr Leung Chi Foon

#### BY POST

Dear Sirs

Agreement No. EDO/04/2017 Independent Environmental Checker (IEC) for Development of Anderson Road Quarry Site – Road Improvement Works Monthly Environmental Monitoring & Audit Report (April 2023)

We refer to emails dated 10 and 12 May 2023 from Environmental Team, Lam Environmental Services Limited attaching a Monthly Environmental Monitoring and Audit Report (April 2023) for the captioned project.

We have no further comment and hereby verify the abovementioned report in accordance with Clause 3.4 of the Environmental Permit no. EP-513/2016.

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

Yours faithfully ANEWR CONSULTING LIMITED

James Choi Independent Environmental Checker

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#### **EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report April 2023 of Development of Anderson Road Quarry Site – Road Improvement Works under Environmental Permit no. EP-513/2016 (Hereafter as "the Project"). The construction works of the Project was commenced on 2 November 2018 and the tentative completion date is end of 2023. This is the 54<sup>th</sup> EM&A report presenting the environmental monitoring findings and information recorded during the period of 1 to 30 April 2023. The cut-off date of reporting is the end of each reporting month.
- ii. In the reporting month, the principal work activities conducted are as follow:

#### Works in Road Improvement Works 1 (RIW1)

- Construct RC works & backfilling at RWC2 Type 2 are in-progress.
- Construct socketed H pile at RWC2 Type 3 for piling construction is in-progress.
- Preparation works of drainage diversion at RWC2 Type 4 is in-progress.
- Watermain diversion at RWC2 Type 4 is in-progress.
- Backfilling works at Type 6 to 8 is in-progress.
- Construct pile cap at FE1-PC1b is in-progress.
- Trial pits excavation at CT5 are in-progress.
- Drainage diversion works at CT6.
- Backfilling to drainage trench at KS27 (West Side) is in-progress; Preparation works for RC works at KS27 (West side) is in-progress; RC works at KS27 (East Side) near Lee Hang House at Shun Lee Estate.

#### Works in Road Improvement Works 2 (RIW2)

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

#### Works in Road Improvement Works 3 (RIW3)

- Excavate trial pits at Sau Mui Ping Road / Lin Tak Road for watermain alignment confirmation in-progress.
- ELS works and watermain connection works at Sau Mun Ping Road / Hiu Kwong Street Sitting-out Area for watermain connection is in-progress.
- Backfilling works at RWD1 Bay 1 10.
- ELS works for Noise Barrier SE1, VB1 pending on watermain connection point issue.
- RC Works for Noise Barrier SE1 is in-progress.
- Rock excavate at Slope D1 lower portion is in-progress.



- Rock excavation using drill & split method, drainage works and road works at Slope D3 / Lin Tak Road are in-progress.
- Preparation works for excavate at Slope D4 is in-progress.
- ELS works at Bridge F1-4 is in-progress.

#### Air Quality Monitoring

- iii. 1-hour Total Suspended Particulates (TSP) monitoring was conducted at eight monitoring stations.The sampling frequency is 3 times in every 6 days in the reporting month.
- iv. No project related action or limit level exceedance was recorded in this reporting period.

#### Noise Monitoring

- v. Noise monitoring was conducted at five noise monitoring stations once per week in the reporting month.
- vi. No project related action or limit level exceedance was recorded in this reporting period.

#### Water Quality Monitoring

- vii. Water quality monitoring was conducted at four monitoring stations three days per week in the reporting month.
- viii. No water samples can be collected at Station E, AC1 and AC3 during this reporting period as the stations were dried out during the monitoring.
- ix. 2 action level exceedances for suspended solid were recorded in April 2023.

#### Site Inspections and Audit

- x. The Environmental Team (ET) conducted weekly site inspections during April 2023. No non-compliance was found during the site inspection while reminders and observations on environmental measures were recommended and recorded. Details can be referred to Section 7.
- xi. The Environmental Team (ET) conducted biweekly landscape site inspections April 2023. No non-compliance was found during the site inspection while reminders and observation on environmental measures were recommended and recorded. Details can be referred to Section 7.
- xii. The Environmental Team (ET) conducted monthly ecological monitoring once in April 2023. No non-compliance was found during the site inspection while reminders and observation on environmental measures were recommended and recorded. Details can be referred to Section 7.

#### Complaints, Notifications of Summons and Successful Prosecutions

xiii. No environmental complaints were received by the ET. The investigation summary for all the complaint cases were reported in the Complaint Log in in **Appendix 8.1**.



#### Reporting Changes

xiv. There are no changes to be reported.

#### Future Key Issues

xv. In coming reporting 2 months, the scheduled construction activities and the recommended mitigation measures are listed in **Table 9.1**.



#### 1 Introduction

#### 1.1 Scope of the Report

- 1.1.1. Lam Environmental Services Limited (LES) has been appointed to work as the Environmental Team (ET) under Environmental Permit (EP) no. EP-513/2016 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Development of Anderson Road Quarry site - Road Improvement Works (Register No.: AEIAR-195/2016).
- 1.1.2. In accordance with Clause 3.4 stated in EP-513/2016, four hard copy and one electronic copy of the monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month throughout the entire construction period.
- 1.1.3. In accordance with Section 11.3.1 of the Project EM&A Manual, the first Monthly EM&A Report should be prepared and submitted to EPD within a month after the major construction works commences with the subsequently Monthly EM&A Reports due in 10 works day of the end of each reporting month.

#### 1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- Section 2 *Project Background* summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4 *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- Section 5 *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 6 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 Environmental Site Audit summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.



- Section 8 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 9 Conclusion



#### 2 Project Background

#### 2.1 Background

- 2.1.1. The Development of Anderson Road Quarry (ARQ) Site is to provide land and the associated infrastructures for the proposed land uses at the existing ARQ site at the north-eastern of East Kowloon.
- 2.1.2. In addition to the site formation and infrastructure works within the ARQ site, a new bus-to-bus interchange (BBI) at the toll plaza of Tseung Kwan O Tunnel and a series of associated off-site road improvement works and pedestrian connectivity facilities are also proposed to mitigate the potential cumulative traffic impact arising from the proposed ARQ development.
- 2.1.3. The Project under Environmental Permit (EP) (EP No. EP-513/2016) is intended for three associated off-site road improvement works which comprises: (i) improvement of junction of (J/O) Lin Tak Road / Sau Mau Ping Road (RIW3) (ii) widening and improvement of sections of Clear Water Bay Road and On Sau Road (RIW2); and (iii) widening and improvement of sections of New Clear Water Bay Road and Shun Lee Tsuen Road (RIW1). The location of the Project is shown Figure 2.1.

#### 2.2 Scope of the Project and Site Description

2.2.1. The project contains various Schedule 2 Designated Projects (DPs) that, under the EIAO, require EPs to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the DPs under this Project.

ltem	Designated Project	EIAO Reference
DP2	A road which is an expressway, trunk road, primary distributor road or district distributor road including new roads, and major extensions or improvements to existing road	Schedule 2, Part I, A.1

 Table 2.1
 Schedule 2 Designated Projects under this Project

### 2.3 Project Organization and Contact Personnel

- 2.3.1 Civil Engineering and Development Department is the overall project controllers for the Project. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.3.2 The proposed project organization and lines of communication with respect to environmental protection works are shown in <u>Figure 2.2</u>. Key personnel and contact particulars are summarized in **Table 2.2**:



Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative	Senior Resident Engineer	Mr. Brad Chan	5506 0068	2473 3221
Chun Wo – China Metallurgical Group	Contractor	Site Agent	Mr. David Tung	3696 1833	3965 9854
Corporation Joint Venture		Environmental Officer	Ms. Siu King Lam	3965 9899	
ANewR Consulting Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. James Choi	2618 2836	3007 8648
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Victor Wong	3765 0649	2882 3331

#### Table 2.2 Contact Details of Key Personnel

#### 2.4 Construction Activities

2.4.1 In coming reporting 2 months, the scheduled construction activities are listed as follows:

- Construct RC works & backfilling at RWC2 Type 2 are in-progress.
- Construct socketed H pile at RWC2 Type 3 for piling construction is in-progress.
- Preparation works of drainage diversion at RWC2 Type 4 is in-progress.
- Watermain diversion at RWC2 Type 4 is in-progress.
- Backfilling works at Type 6 to 8 is in-progress.
- Construct pile cap at FE1-PC1b is in-progress.
- Trial pits excavation at CT5 are in-progress.
- Drainage diversion works at CT6.
- Backfilling to drainage trench at KS27 (West Side) is in-progress; Preparation works for RC works at KS27 (West side) is in-progress; RC works at KS27 (East Side) near Lee Hang House at Shun Lee Estate.
- Construct RC works at RWC3b; Rock excavation & ELS works at RWC3b are in-progress.
- Construct mini-pile works at SE2 (hill side toward Sai Keung direction) is in-progress; Excavate for expose utilities and utilities protection / diversion are in-progress.
- ELS works at CT4 in progress.
- Excavate trial pits at Sau Mui Ping Road / Lin Tak Road for watermain alignment confirmation in-progress.
- ELS works and watermain connection works at Sau Mun Ping Road / Hiu Kwong Street Sitting-out Area for watermain connection is in-progress.
- Backfilling works at RWD1 Bay 1 10.
- ELS works for Noise Barrier SE1, VB1 pending on watermain connection point issue.



- RC Works for Noise Barrier SE1 is in-progress.
- Rock excavate at Slope D1 lower portion is in-progress.
- Rock excavation using drill & split method, drainage works and road works at Slope D3 / Lin Tak Road are in-progress.
- Preparation works for excavate at Slope D4 is in-progress.
- ELS works at Bridge F1-4 is in-progress.



#### 3 Status of Regulatory Compliance

#### 3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

# Table 3.1 Summary of the current status on licences and/or permits on environmentalprotection pertinent to the Project

Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
Notification pursuant to Air Pollution Control (Construction Dust) Regulation	Form NA submitted to EPD on 29 May 2018.			
Environmental Permit	EP-513/2016	21 Jul 2016	N/A	Valid
Billing Account for Disposal				
Billing Account for Disposal of Construction Waste	7031075	20 Jul 2018	End of the Project	Valid
Chemical Waste Registration			1	
Registration as a Waste Producer for Sau Mau Ping Road to Lin Tak Road	5213-294-C4239-04	6 Aug 2018	N/A	Valid
Registration as a Waste Producer for Sau Mau Ping Area between Him Tat House and Sau Mau Ping Salt Water Service Reservoir	5213-293-C4239-05	6 Aug 2018	N/A	Valid
Registration as a Waste Producer for New Clear Water Bay Road (Start from 46 Clear Water Bay Road, End at Shun Lee Tsuen Road and San Lee Street	5213-291-C4239-02	13 Aug 2018	N/A	Valid
Registration as a Waste Producer for South Part of Hiu Ming Street Playground	5213-294-C4239-03	6 Aug 2018	N/A	Valid
Registration as a Waste Producer for Clear Water Bay Road and New Clear Water Bay Road (From the intersection of Fei Ngo Shan Road to Tai Pan Court) and on Sau Road (From the intersection of New Clear Water Bay Road to 9 Anderson Road	5213-831-C4239-08	6 Aug 2018	N/A	Valid
Registration as a Waste Producer for Sau Mau Ping Area Between Anderson Road and On Sau Road, next to Oi Tat House	5213-292-C4239-06	6 Aug 2018	N/A	Valid
Water Discharge Licence				
Water Pollution Ordinance Licence for Lin Tak Road to Sau Mau Ping Road including Tseung Kwan O Tunnel Toll Plaza	WT00032742-2018	18 Jan 2019	31 Jan 2024	Valid



Permits and/or Licences	Permit. No. / Account No.	Valid From	Expiry Date	Status
Water Pollution Ordinance Licence for intersection of Fei Ngo Shan Road to Tai Pan Court and on Sau Road (From the intersection of New Clear Water Bay Road to 9 Anderson Road	WT00033299-2019	22 Jul 2021	31 Mar 2024	Valid
Water Pollution Ordinance Licence for Sau Mau Ping area between Him Tat House and Sau Mau Ping Salt Water service Reservoir	WT00033229-2019	24 Jun 2019	30 Jun 2024	Valid
Construction Noise Permit				
CNP for a section of New Clear Water Bay Road in Area RIW1 for Pumping	GW-RE1155-22	1-Nov-22	30-Apr-23	Valid

#### 3.2 Status of Submission under the EP-513/2016

3.2.1. A summary of the current status on submission under EP-513/2016 is shown in *Table 3.2*.

#### Table 3.2 Summary of submission status under EP-513/2016

EP Condition	Submission	Date of Submission
Condition 1.12	Notification of Commencement Date of Works	24 September 2018
Condition 2.10	Management Organization of Main Construction Companies	27 September 2018
Condition 2.11	Submission of Design Drawing(s) of the Project	28 September 2018
Condition 2.12	Submission of Landscape and Visual Mitigation Plan(s)	28 September 2018
Condition 2.14 (a) and 2.15	Submission of Detailed Vegetation Survey Report (2nd submission)	7 December 2018
Condition 2.14 (b) and 2.15	Submission of Transplantation Proposal	7 December 2018
Condition 3.3	Submission of Baseline Environmental Monitoring Report (2nd submission)	18 December 2018
Condition 2.14 (c)	Transplantation Completion Report	3 May 2019
Condition 3.4	Monthly EM&A Report (February 2023)	15 March 2023
Condition 2.14(d)	Post-Transplantation Monitoring Report	6 April 2022



#### 4 Monitoring Requirements

#### 4.1 Noise Monitoring

#### NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure 4.1* &

#### <u>4.2.</u>

#### Table 4.1 Noise Monitoring Station

Monitoring Station ID	Monitoring Location	Measurement Type	Level (in terms of no. of floor)
NMC01	Kei Shun Special School	Façade	G/F
NMC02	Shun Lee Disciplined Services Quarters Block 6	Façade	3/F podium
NMC03	Sienna Garden Block 6	Free-field	G/F
NMC04	Po Tat Estate Tat Kai House	Free-field	3/F podium
NMC05	Hong Wah Court Block B Yee Hong House	Façade	G/F

#### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.2. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
  - One set of measurements between 0700-1900 hours on normal weekdays (six consecutive Leq/5min readings);
  - One set of measurements between 1900-2300 hours;
  - One set of measurements between 2300-0700 hours of next day; and
  - One set of measurements between 0700-2300 hours on holidays (three consecutive Leq/5min readings).
- 4.1.3. For the latter 3 sets of measurements specified in Section 4.1.2 above, one set of measurements shall at least include 3 consecutive Leq (5min) results.
- 4.1.4. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.5. If a school exists near the construction activity, noise monitoring shall be carried out at the monitoring stations for the schools during the examination periods. The ET leader shall liaise with the school's personnel and the examination authority to ascertain the exact dates and times of all examination periods during the course of the contract.



#### MONITORING EQUIPMENT

4.1.6. Noise monitoring was performed using sound level meter at the designated monitoring locations. The sound level meters shall comply with the International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator shall be deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in **Table 4.2**.

#### Table 4.2 Noise Monitoring Equipment

Equipment	Brand and Model	Series Number
Integrated Sound Level Meter	B&K 2250	2722311
Acoustic Calibrator	Larson Davis CAL200	13437

4.1.7. The calibration certificates of the noise monitoring equipment are attached in Appendix 4.2.

#### SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.1.8. Monitoring Procedure
  - (a) The monitoring station shall normally be at a point 1m from the exterior of the sensitive receiver's building façade and be at a position 1.2m above the ground.
  - (b) Façade measurements were made at the monitoring locations. For free-field measurement, a correction factor of +3 dB (A) would be applied.
  - (c) The battery condition was checked to ensure the correct functioning of the meter.
  - (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - (e) Frequency weighting: A, Time weighting: Fast, Measurement time set: continuous 5 mins
  - (f) Prior and after to the noise measurement, the meter was checked using the acoustic calibrator for 94dB (A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than ±1 dB (A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
  - (g) Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5m/s or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

#### 4.1.9. Maintenance and Calibration

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The sound level meter and calibrator were calibrated at yearly intervals.



#### EVENT AND ACTION PLAN

4.1.10. Noise Standards for Daytime Construction Activities are specified under EIAO-TM. The Action and Limit levels for construction noise are defined in **Table 4.3** and <u>Appendix 4.1</u>. Should non-compliance of the criteria occurs, action in accordance with the Event and Action Plan in <u>Appendix 6.1</u> shall be carried out.

#### Table 4.3 Action and Limit Level for Noise Monitoring

		Limit Level (dB(A))			
Monitoring Station	Action Level	0700-1900 hrs on normal weekdays	0700-2300 hrs on holidays (including Sundays); and 1900-2300 hrs on all days <sup>2</sup>	2300-0700 hrs of all days <sup>2</sup>	
NMC01	When one documented complaint is	65 / 70 <sup>1</sup>			
NMC02		75	60 / 65 / 70 <sup>3</sup>		
NMC03		75		45 / 50 / 55 <sup>3</sup>	
NMC04	received	75			
NMC05		75			

Remark 1: Limit level of NMC01 - Kei Shun Special School reduce to 65 dB (A) during examination periods if any. Remark 2: Construction noise during restricted hours is under the control of Noise Control Ordinance Limit Level to be selected based on Area Sensitivity Rating.

Remark 3: Limit Level for restricted hour monitoring shall act as reference level only. Investigation would be conducted on CNP compliance if exceedance recorded during restricted hour noise monitoring period.

#### 4.2 Air Monitoring

#### AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring stations for the Project are listed and shown in Table 4.4 and Figure 4.3 &

#### <u>4.4.</u>

Monitoring Station ID	Monitoring Location	Level (in terms of no of floor)
NCWBR_AMS-1	Shun Lee Fire Station	2/F Roof
NCWBR_AMS-2	Shun Lee Estate Lee Hang House	G/F
NCWBR_AMS-3	Shun Lee Disciplined Services Quarters (Block 6)	4/F podium
NCWBR_AMS-4	Sienna Garden	G/F
NCWBR_AMS-5	Shun Chi Court Shun Fung House	Roof



Monitoring Station ID	Monitoring Location	Level (in terms of no. of floor)
LTR_AMS-1	St Edward's Catholic Primary School	G/F
LTR_AMS-2	Environmental Protection Department's Restored Landfill Site Office	G/F
LTR_AMS-3	Po Tat Estate Tat Kai House	3/F podium

#### AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour TSP levels should be measured to indicate the impacts of construction dust on air quality.
- 4.2.3. The sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

#### SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.4. Monitoring Procedures
  - (a) Check the calibration period of portable direct reading dust meter prior to monitoring (The direct reading dust meter was calibrated at 2-years interval and checked with High Volume Sampler (HVS) yearly.)
  - (b) Record the site condition near / around the monitoring stations.
  - (c) Install the portable direct reading dust meter to the monitoring location.
  - (d) Slide the power switch to turn the power on.
  - (e) Check of portable direct reading dust meter to ensure the equipment operation in normal condition.
  - (f) Select the period of measurement to 60mins.
  - (g) Check and set the correct time.
  - (h) Select the appropriate unit display for the equipment.
  - Slide the power switch to turn the power off when the monitoring period ended (3 times 1 hour TSP monitoring per day).
  - (j) Uninstall the portable direct reading dust meter
  - (k) Collected the sampled data for analysis.
  - (I) Remark: Procedures (c) to (h) may be different subject to the brands and models of portable direct reading dust meter
- 4.2.5. Maintenance and Calibration
  - (a) The direct reading dust meter was calibrated at 2-years interval and checked with High Volume Sampler (HVS) yearly to determine the accuracy and validity of the results measured.
  - (b) Checking of direct reading dust meter will be carried out in order to determine the conversion factor between the direct reading dust meter and the standard equipment, HVS. The comparison check is to be considered valid based on correlation coefficient checked by HOKLAS laboratory.



4.2.6. The 1-hour TSP air quality monitoring was performed by using portable direct reading dust meters at each designated monitoring station. The brand and model of the equipment are given in **Table 4.5**.

Equipment	Brand and model	Series Number	
Portable direct reading dust meter		X19299	
	Met One BT- 645	C15622	
		C15621	
	Met One AEROCET 831	R14332	
	Met Olle ALROCET 851	W15448	

#### Table 4.5 Air Quality Monitoring Equipment

4.2.7. The calibration certificate of the air quality monitoring equipment are attached in Appendix 4.2.

#### WIND DATA

4.2.8. The representative wind data were obtained online from the Hong Kong Observatory which covered the 1-hr TSP monitoring periods. The wind data for April 2023 have not yet been published by the HKO.

#### EVENT AND ACTION PLAN

4.2.9. The Action and Limit levels for construction air quality are defined in Table 4.6 and <u>Appendix</u> <u>4.1</u>. The Event and Action Plan as shown in <u>Appendix 6.1</u> shall be implemented if non-compliance of the air quality criteria is identified.

#### Table 4.6 Action and Limit Level for Air Quality Monitoring

Monitoring Locations	1-hour TSP Level in μg/m3		
	Action Level	Limit Level	
NCWBR_AMS-1	284.4	500.0	
NCWBR_AMS-2	282.4	500.0	
NCWBR_AMS-3	287.9	500.0	
NCWBR_AMS-4	281.6	500.0	
NCWBR_AMS-5	270.0	500.0	
LTR_AMS-1	272.1	500.0	
LTR_AMS-2	281.1	500.0	
LTR_AMS-3	285.1	500.0	



#### 4.3 Water Quality Monitoring

#### WATER QUALITY MONITORING STATIONS

4.3.1. Water quality monitoring was undertaken at 7 monitoring stations in the reporting month. The proposed water quality monitoring stations of the Project are shown in *Table 4.7* and *Figure 4.5* & <u>4.6</u>.

Inland Water	Stations	Description	Easting	Northing
	E	Upstream Control Station	841329	821753
	F	Downstream Impact Station	841469	821635
Channelized streams across	AC1	Upstream Reference Station	-	-
the Project site	AC2	Upstream Reference Station	-	-
	AC3	Upstream Reference Station	-	-
Ma Yau Tong	Н	Upstream Control Station	843008	819880
Stream	I	Downstream Impact Station	842652	819573

#### Table 4.7 Marine Water Quality Stations for Water Quality Monitoring

#### WATER QUALITY PARAMETERS, FREQUENCY AND DURATION

- 4.3.2. The levels of dissolved oxygen (DO), turbidity and pH shall be measured in situ while suspended solids (SS) is determined by laboratory analysis at all the designated monitoring stations.
- 4.3.3. In association with the water quality parameters, other relevant data shall also be recorded, such as monitoring location / position, time, water temperature, salinity, DO saturation, weather conditions, and any special phenomena underway near the monitoring station.
- 4.3.4. The sampling frequency of at least three days per week should be undertaken when the highest dust impact occurs. Upon completion of the construction works, the monitoring exercise at the designated monitoring locations should be continued for four weeks in the same manner as the impact monitoring.
- 4.3.5. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased.
- 4.3.6. Replicate in-situ measurements should be carried out in each sampling event.

#### SAMPLING PROCEDURES AND MONITORING EQUIPMENT

Dissolved Oxygen and Temperature Measuring Equipment



- 4.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
  - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
  - a temperature of 0-45 degree Celsius
- 4.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 4.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

#### Turbidity Measurement Instrument

4.3.10. The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

Sampler

4.3.11. Due to low water level as mentioned in Section 6.4.3 of the EIA report, bucket sampler (Approximate 1L) will be use instead of water sampler in order to obtain surface water sample without disturb the stream sediment and collect representative results.

#### <u>Salinity</u>

4.3.12. A portable salinometer capable of measuring salinity in the range of 0-70 ppt shall be provided for measuring salinity of the water at each of monitoring location.

#### MONITORING METHODOLOGY

- 4.3.13. Monitoring Procedure
  - (a) The condition near the monitoring stations shall be observed and recorded on the data log sheet.
  - (b) Check of sensors and electrodes with certified standard solutions before each use.
  - (c) Wet bulb calibration for a DO meter should be carried out before measurement.
  - (d) Sample would be taken using bucket sampler at surface level.
  - (e) Transfer the sampled water carefully into cleaned water bottles (2x 1000ml) provided by the laboratory at the spot after the collection of the water sample for the subsequent laboratory Suspended Solid testing.
  - (f) Transfer the sampled water from the bucket sampler to the rinsed water container for in-situ measurement (In case of the in-situ measurement cannot be carried at spot due to safety and adverse weather condition, sampled water from the bucket sampler will



be transfer to cleaned water bottles provided by laboratory. Then, In-situ measurement will be conducted at a safe location which sampled water inside cleaned water bottle will be transfer to the rinsed water container for in-situ measurement) In-situ measurement shall be measured in duplicate.

- (g) Parameters including Water Temperature (°C), pH (units), Salinity (ppt), DO (mg/L), DO saturation (%) will be measured by the Multifunctional Meter and Turbidity (NTU) will be measured by turbid meter. (Water Temperature and Salinity will be measured as reference parameters)
- (h) Record the result on the data log sheet and record any special finding during / after in-situ measurement.
- (i) The water sample bottles will be stored in a cool box (at cooled to 4□ without being frozen), which shall be delivered to HOKLAS laboratory (ALS Technichem (HK) Pty Ltd) for further testing to determine the level of SS.
- 4.3.14. Maintenance and Calibration
  - (a) The responses of sensors and electrodes of the water quality monitoring equipment were cleaned and checked at regular intervals.
  - (b) DO meter (Multifunctional Meter) and turbid meter was certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at three monthly intervals.
- 4.3.15. Brand and model of the equipment are given in Table 4.8.

 Table 4.8
 Water Quality Monitoring Equipment

Equipment	Brand and model	Series Number
Multifunctional Meter	Multifunctional Meter         YSI Professional Plus         201	
Turbid meter	Xin Rui WGZ-3B	1807073

4.3.16. The calibration certificates of the water quality monitoring equipment are attached in <u>Appendix</u> <u>4.2.</u>

#### LABORATORY MEASUREMENT / ANALYSIS

4.3.17. Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, which is ALS Technichem (HK) Pty Ltd.

#### EVENT AND ACTION PLAN

4.3.18. The Action and Limit levels for construction water quality are defined in **Table 4.9** and <u>Appendix 4.1</u>. Should the monitoring results of the water quality parameters at any designated monitoring station exceed the water quality criteria, action in accordance with the Event and Action Plan in <u>Appendix 6.1</u> shall be carried out.



Monitoring	Surface pH		Surfa	ce DO	Surface 1	Furbidity	Surfa	ce SS
Station			(mg/L)		(NTU)		(mg/L)	
	Action	Limit	Action	Limit	Action	Limit	Action	Limit
	Level	Level	Level	Level	Level	Level	Level	Level
E	-	-	-	-	-	-	-	-
	Beyond	Beyond						
F	the range	the range	5.8	5.5	24.4	32.7	17.0	23.8
	of 6.6-8.4	of 6.5-8.5						
AC1	-	-	-	-	-	-	-	-
AC2	-	-	-	-	-	-	-	-
AC3	-	-	-	-	-	-	-	-
н	-	-	-	-	-	-	-	-
	Beyond	Beyond						
1	the range	the range	5.5	5.4	206.9	214.2	172.8	201.4
	of 6.6-8.4	of 6.5-8.5						

\* Remarks:

The value of 1.0mg/L was taken as the value for measurement with suspended solid level of <1.0mg/L for Action and Limit level calculation.

It is recommended that upstream monitoring station (monitoring station E, AC1, AC2, AC3 and H) would be taken as control reference for exceedance investigation only. Action and limit level would not be establish using the baseline data.

If the SS and Turbidity recorded from the Control Stations (E, H, AC1, AC2, AC3) are higher than the Impact Stations (I and F) on the same day of measurement, 120% and 130% of the Control Stations' results would be referenced as the Action and Limit Levels.



#### 5. Monitoring Results

- 5.0.1 The environmental monitoring will be implemented based on the division of works areas of each designed projects. Overall layout showing work areas and monitoring stations is shown in <u>Figure 2.1</u> and Figure 4.1 4.6 respectively.
- 5.0.2 The environment monitoring schedules for reporting month and coming month are presented in **Appendix 5.1.**

#### 5.1 Noise Monitoring Results

- 5.1.1 No action or limit level exceedance was recorded in this reporting period.
- 5.1.2 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix 5.2</u>.

#### 5.2 Air Monitoring Results

- 5.2.1 All 1-hour TSP monitoring was conducted as scheduled in the reporting month.
- 5.2.2 No action or limit level exceedance was recorded in this reporting month.
- 5.2.3 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in <u>Appendix 5.3.</u>

#### 5.3 Water Quality Monitoring Results

- 5.3.1 No water samples can be collected at Station E, AC1 and AC3 during this reporting period as the stations were dried out during the monitoring.
- 5.3.2 2 action level exceedances for suspended solid were recorded in April 2023.
- 5.3.3 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in <u>Appendix 5.4.</u>

#### 5.4 Waste Management

5.4.1 The quantities of waste for disposal in the Reporting Period are summarized in Table 5.1 and Table 5.2. The Monthly Summary Waste Flow Table is shown in <u>Appendix 5.5.</u> Whenever possible, materials were reused on-site as far as practicable.



#### Table 5.1 Summary of Quantities of Inert C&D Materials

Waste Type	Hard Rock and Large Broken Concrete (Inert) (in'000m3)	Reused in this Contract (Inert) (in '000m3)	Reused in other Projects (Inert) (in '000m3)	Disposal as Public Fill (Inert) (in '000m3)
Quantity (this month)	0	0.383	0	1.956
Quantity (Project commencement to the end of last month)	0	8.461	26.595	82.377
Cumulative Quantity-to-Date	0	8.844	26.595	84.333
Disposal Location	Nil	Nil	Nil	TKO137

#### Table 5.2 Summary of Quantities of C&D Wastes

Waste Type	Metals (in '000kg)	Paper / Cardboard Packing (in '000kg)	Plastics (in '000kg)	Chemical Wastes (in '000kg)	General Refuses (in '000m3)
Quantity (this month)	0	0	0	0	0.027
Quantity (Project commencement to the end of last month)	0.068	2.587	25.416	0.197	1.926
Cumulative Quantity-to-Date	0.068	2.587	25.416	0.197	1.953
Disposal Location	Nil	Nil	waste recycle was arranged	Nil	SENT



#### 6. Compliance Audit

- 6.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 6.1*.
- 6.0.2. The summary of exceedance is presented in <u>Appendix 6.2.</u>

#### 6.1 Noise Monitoring.

6.1.1 No project related action or limit level exceedance was recorded in this reporting period.

#### 6.2 Air Quality Monitoring

6.2.1 No project related action or limit level exceedance was recorded in this reporting period.

#### 6.3 Water Quality Monitoring

6.4 2 action level exceedances for suspended solid were recorded in April 2023.

#### 6.5 Review of the Reasons for and the Implications of Non-compliance

6.5.1 No environmental non-compliance was recorded in the reporting month.

#### 6.6 Summary of follow-up action on non-compliance

6.6.1 There was no particular follow-up action taken and recorded in the reporting period.



#### 7. Environmental Site Audit

- 7.0.1. Within this reporting month, weekly environmental site audits were conducted on 4, 14, 21 and 28 April 2023. IEC attended the joint site inspection on 14 April 2023.
- 7.0.2. No non-compliance was found during the site inspection while reminders and observations on environmental measures were recommended and recorded. Results and findings of these inspections in this reporting month are listed below in **Table 7.1**.

#### Table 7.1 Summary of Environmental Inspections

Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
4 April 2023	To review the noise mitigation measures in RIW1	Item was pending to be improved in May 2023	Item was pending to be improved in May 2023
28 April 2023	The drainage pumps and AquaSed tank should be operating to treat the waste water on site.	The drainage system was improved	Item was improved in May 2023

- 7.0.3. Within this reporting month, biweekly landscape site audits were conducted on 14 and 21 April 2023.
- 7.0.4. No non-compliance was found during the landscape site inspection. Results and findings of these inspections in this reporting month are listed below in **Table 7.2**.

#### Table 7.2 Summary of Landscape site inspections

Date	Reminder(s)/ Observation(s)	Action taken by Contractor	Outcome
14 April 2023	The tree protection zone should be re-established.	The tree protection zone was re-established.	Item was improved on 28 April 2023

7.0.5. No non-compliance was found during the ecological monitoring.



#### 8. Complaints, Notification of Summons and Prosecution

- 8.0.1. No environmental complaints were reported in the reporting month.
- 8.0.2. The cumulative complaint log and updated summary of complaints are presented in Appendix 8.1.
- 8.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in **Table 8.1** and **Table 8.2** respectively.

#### Table 8.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
April 2023	0
Total	46

#### Table 8.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0



8.0.4. QPME was observed on site at the slope of Lin Tak Road at RIW3. The contractor was recommended to review the implementation of QPMEs from time to time and considering using quieter PMEs whenever possible. Details of QPMEs are as shown in **Table 8.4**.

Type of construction equipment	Brand	Model no.	QPME ID	SWL [dB(A)]
Excavator	335FLCR	CAT0335FCSGJ20540	QPME, EPD-08379	104
Excavator	SK200-8	YN12-65530	QPME, EPD-06168	99



#### 9. Conclusion

- 9.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 9.0.2. The performance of the environmental management system of the previous three months (quarter) was generally satisfied. Mitigation measures according to the environmental mitigation implementation schedule and the EIA were generally implemented by the Contractor. Hence, the EM&A programme was considered effective and shall be maintained. The status of the water quality station shall be kept in view, as station E usually was unavailable.
- 9.0.3. The scheduled construction activities and the recommended mitigation measures for the coming 2 months are listed in Table 9.1. The construction programmes of the Project are provided in Appendix 9.1.

Key Construction Works	Recommended Mitigation Measures	
<ul> <li>Construct RC works &amp; backfilling at RWC2 Type 2 are in-progress.</li> <li>Construct socketed H pile at RWC2 Type 3 for piling construction is in-progress.</li> <li>Preparation works of drainage diversion at RWC2 Type 4 is in-progress.</li> <li>Watermain diversion at RWC2 Type 4 is in-progress.</li> <li>Backfilling works at Type 6 to 8 is in-progress.</li> <li>Construct pile cap at FE1-PC1b is in-progress.</li> <li>Construct pile cap at FE1-PC1b is in-progress.</li> <li>Trial pits excavation at CT5 are in-progress.</li> <li>Drainage diversion works at CT6.</li> <li>Backfilling to drainage trench at KS27 (West Side) is in-progress; Preparation works for RC works at KS27 (West side) is in-progress; RC works at KS27 (West side) is in-progress; RC works at KS27 (East Side) near Lee Hang House at Shun Lee Estate.</li> <li>Construct RC works at RWC3b; Rock excavation &amp; ELS works at RWC3b are in-progress.</li> <li>Construct mini-pile works at SE2 (hill side toward Sai Keung direction) is in-progress; Excavate for expose utilities and utilities protection / diversion are in-progress.</li> <li>ELS works at CT4 in progress.</li> <li>ELS works and watermain alignment confirmation in-progress.</li> <li>ELS works and watermain connection works at Sau Mun Ping Road / Hiu Kwong Street Sitting-out Area for watermain connection is in-progress.</li> <li>Backfilling works at RWD1 Bay 1 – 10.</li> <li>ELS works for Noise Barrier SE1, VB1 pending on watermain connection point issue.</li> <li>RC Works for Noise Barrier SE1 is in-progress.</li> </ul>	<ul> <li>To minimize the dust impact to the surrounding ASRs, dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be incorporated to control dust emission from the site;</li> <li>To reduce the noise impacts at the affected NSRs during normal daytime working hours, mitigation measures such as adopting quiet PME and construction noise barriers are recommended.</li> <li>To alleviate the construction noise impact on the affected NSRs, construction noise barriers or enclosures would be erected to provide screening from the construction plant.</li> <li>Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins.</li> <li>Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding.</li> </ul>	

# Table 9.1Construction Activities and Recommended Mitigation Measures in ComingReporting 2 Months



Key Construction Works	Recommended Mitigation Measures	
<ul> <li>Rock excavate at Slope D1 lower portion is in-progress.</li> <li>Rock excavation using drill &amp; split method, drainage works and road works at Slope D3 / Lin Tak Road are in-progress.</li> </ul>		
<ul> <li>Preparation works for excavate at Slope D4 is in-progress.</li> <li>ELS works at Bridge F1-4 is in-progress.</li> </ul>		



Figure 2.1

Project Layout



P:\*Proiects\*60328348\*DRAWING\*SKETCH\*SK0175.don



Figure 2.2

Project Organization Chart



## Project Organization Chart





Figure 4.1 to Figure 4.6

Locations of Monitoring Stations


Monitoring Station ID	EIA ID	Location						
NCWBR RIW								
NCWBR_AMS-1	/BR_AMS-1 ASLF-1 Shun Lee Fire Station							
NCWBR_AMS-2	ASLE-21	Shun Lee Estate Lee Hang House						
NCWBR_AMS-3	ASLD-10	Shun Lee Disciplined Services Quarters (Block 6)						
NCWBR_AMS-4	AFNS-3	Sienna Garden						
NCWBR_AMS-5	ASCC-05	Shun Chi Court Shun Fung House						

Figure 4.3

Location of Air Quality Monitoring Station

(for Road Improvement Work 1 & 2)



Monitoring Station ID	EIA ID	Location
LTR RIW		
LTR_AMS-1	ASECP-2	St Edward's Catholic Primary School
LTR_AMS-2	AEPD-01	Environmental Protection Department's Restored Landfill Site Office
LTR_AMS-3	APTE-14	Po Tat Estate Tat Kai House





NMC01	Kei Shun Special School Shun Lee Disciplined Services Quarters Block 6	
Voise Monitoring	g Station (Construction Phase)	
Monitoring Location ID	Description	Figure 4.1 Location of Noise Monitoring Station (Construction Phase) (for Road Improvement Work 1 & 2)





Appendix 3.1

Environmental Mitigation Implementation Schedule

# **APPENDIX C - IMPLEMENTATION SCHEDULE OF MITIGATION MEASURES**

## Introduction

This chapter presents the implementation schedule of mitigation measures for the Project. **Table C.1** summarizes the details of the recommended mitigation measures for all works areas. For each recommended mitigation measure, both the location and timing for the mitigation measures have clearly been identified as well as the parties responsible for implementing the mitigation measures and for maintenance (where applicable).

## Table C.1 Implementation Schedule of Mitigation Measures

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures Agent		Des	С	0	Dec	Legislation and Guidelines
Air Quality	Impact (Construction Phase)							
4.7.1	Hourly watering with intensity of 0.0455 L/m <sup>2</sup> (tentatively) on the active construction area so as to achieve a dust removal efficiency of 87.5%.	Active works areas	CEDD/Contractor		~			EIAO-TM, AQOs
4.7.2	<ul> <li>To minimize the dust impact to the surrounding ASRs, dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation should be incorporated to control dust emission from the site. Major control measures relevant to this Project are listed below, and they are recommended to be included in relevant contract documents.</li> </ul>	All works areas	CEDD/Contractor		~			Air Pollution Control (Construction Dust) Regulation
	<ul> <li>Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> </ul>							
	<ul> <li>Any dusty material remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> </ul>							
	<ul> <li>A stockpile of dusty material should not extend beyond the pedestrian barriers, fencing or traffic cones;</li> </ul>							
	- The load of dusty materials on a vehicles leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak form the vehicle;							

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	<ul> <li>Where practicable, vehicles washing facilities including a high pressure water jet should 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 should be paved with concrete, bituminous materials or hardcores;</li> </ul>							
	- When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;							
	<ul> <li>The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;</li> </ul>							
	<ul> <li>Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;</li> </ul>							
	<ul> <li>Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;</li> </ul>							
	- Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;							
	<ul> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> </ul>							
	<ul> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the three sides;</li> </ul>							

	Recommeded Mitigation Massures	Location of the	Implementation	Imple	ementa	Relevant		
N/A	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	- Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and							
	- Exposed earth should be properly treated by 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.							
Air Quality	Impact (Operational Phase)			1 1				
N/A	N/A	N/A	N/A					N/A
Noise Impa	act (Construction Phase)	·				•		·
	<ul> <li><u>Adoption of Quiet PMEs</u></li> <li>To reduce the noise impacts at the affected NSRs during normal daytime working hours, mitigation measures such as adopting quiet PME and construction noise barriers are recommended.</li> </ul>	All works areas	CEDD/Contractor		~			EIAO-TM
	<ul> <li><u>Construction Noise Barriers</u></li> <li>To alleviate the construction noise impact on the affected NSRs, construction noise barriers or enclosures would be erected to provide screening from the construction plant.</li> </ul>							
Noise Impa	act (Operational Phase)	-						·
5.8.5	Direct mitigation measures in the form of Vertical Noise Barriers, Cantilevered Noise Barriers, Semi-Enclosures and Full Enclosures are proposed on the Project Roads such that the noise level would be reduced to fulfil the EIAO requirements for RIW sites at:	Project roads	CEDD/Contractor			✓		EIAO-TM
	<ul> <li>Sau Mau Ping Road and Lin Tak Road,</li> <li>J/O Clear Water Bay Road and On Sau Road and</li> <li>New Clear Water Bay Road and Shun Lee Tsuen Road</li> </ul>							

		Location of the	Implementation	Imp	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	ο	Dec	Legislation and Guidelines
	•							
Water Qua	lity Impact (Construction Phase)							
6.9.1 -	Construction Site Run-off and General Construction Activities	All works areas	CEDD/Contractor		~			ProPECC PN 1/94
6.9.13	Boring and Drilling Water							Construction Site Drainage
	• Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be re-circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.							TM-DSS Water Pollution
	Wheel Washing Water							Control Ordinance
	• All vehicles and plant should be cleaned before they leave a construction site to minimize the deposition of earth, mud, debris on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfill to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.							
	Rubbish and Litter							
	• Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.							
	Construction Site Run-off							
	• The site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be followed as far as practicable to minimise surface run-off and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impact.							
	Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities							

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.							
	• Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Any practical options for the diversion and re-alignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains. Minimum distance of 100m should be maintained between the discharge points of construction site run-off and the existing saltwater intakes. No effluent will be discharged into typhoon shelter.							
	Construction works should be programmed to minimize soil excavation works in rainy seasons (April to September). If excavation in soil cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.							
	• Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.							
	<ul> <li>Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater</li> </ul>							

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	<ul> <li>pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.</li> <li>Construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms.</li> <li>Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.</li> <li>Good site practices should be adopted to remove rubbish and litter</li> </ul>							
	from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis. Site Effluent							
	<ul> <li>There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence which is under the ambit of regional office (RO) of EPD.</li> </ul>							
6.9.14 - 6.9.16	<ul> <li><u>Accidental Spillage and Potential Contamination of Surface Water and</u></li> <li><u>Groundwater</u></li> <li>Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations</li> </ul>	All works areas	CEDD/Contractor		~			Waste Disposal Ordinance Waste Disposal (Chemical Waste)

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	ο	Dec	Legislation and Guidelines
	in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied with for control of chemical wastes.							(General) Regulation
	<ul> <li>Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.</li> </ul>							The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
	• Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:							
	<ul> <li>Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;</li> </ul>							
	<ul> <li>Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and</li> </ul>							
	<ul> <li>Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>							
6.9.17 -	Sewage Effluent from Construction Workforce	All works areas	CEDD/Contractor		✓			Water Pollution
6.9.18	• The construction workforce on site will generate sewage. It is recommended to provide sufficient chemical toilets in the works areas. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis.							Control Ordinance
	<ul> <li>Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment. Regular environmental audit of the construction site will provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the project would not cause water</li> </ul>							

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant	
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines	
	pollution problem after undertaking all required measures.								
6.9.19	<ul> <li><u>Construction Works in Close Proximity of Inland Waters</u></li> <li>The practices outlined in ETWB TC (Works) No. 5/2005 "Protection of natural streams/rivers from adverse impacts arising from construction works" should also be adopted where applicable to minimize the water quality impacts upon any natural streams or surface water systems. Relevant mitigation measures from the ETWB TC (Works) No. 5/2005 are listed below:</li> </ul>	All works areas	CEDD/Contractor		*			Water Pollution Control Ordinance	
	<ul> <li>Construction works close to the inland waters should be carried out in dry season as far as practicable where the flow in the surface channel or stream is low.</li> </ul>								
	<ul> <li>The use of less or smaller construction plants may be specified in areas close to the water courses to reduce the disturbance to the surface water.</li> </ul>								
	<ul> <li>Temporary storage of materials (e.g. equipment, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works.</li> </ul>								
	<ul> <li>Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.</li> </ul>								
	<ul> <li>Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers.</li> </ul>								
	<ul> <li>Proper shoring may need to be erected in order to prevent soil or mud from slipping into the watercourses.</li> </ul>								
Water Qual	ity Impact (Operational Phase)	-	-	-	-	-	-		
6.9.20 - 6.9.23	<ul> <li>Best Management Practices (BMPs) to reduce storm water and non-point source pollution have been proposed for the RIW as follows:</li> </ul>	All works areas	CEDD/HyD	~		~		Water Pollution Control Ordinance	
	Design Measures								
	• Exposed surface shall be avoided within the RIW sites to minimize soil erosion. The development site shall be either hard paved or								

		Location of the	Implementation	Impl	ementa	tation Stage <sup>(1)</sup>		Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	<ul> <li>covered by landscaping area where appropriate.</li> <li>The streams and channelized nullahs near the RIW sites will be retained to maintain the original flow path. The drainage system will be designed to avoid flooding.</li> <li>Green areas / tree / shrub planting etc. will be introduced along roadside amenity strips and central dividers as far as possible, which can help to reduce soil erosion.</li> <li>Evergreen trees species, which in general generate relatively</li> </ul>							
	smaller amount of fallen leaves, should be selected where possible. Devices/ Facilities to Control Pollution							
	<ul> <li>Screening facilities such as standard gully grating and trash grille, with spacing which is capable of screening off large substances such as fallen leaves and rubbish should be provided at the inlet of drainage system.</li> </ul>							
	• Road gullies with standard design and silt traps and oil interceptors should be incorporated during the detailed design to remove particles present in stormwater runoff, where appropriate.							
	Administrative Measures							
	<ul> <li>Good management measures such as regular cleaning and sweeping of road surface/ open areas are suggested. The road surface/ open area cleaning should also be carried out prior to occurrence rainstorm.</li> </ul>							
	• Manholes, as well as stormwater gullies, ditches provided at the Project sites should be regularly inspected and cleaned (e.g. monthly). Additional inspection and cleansing should be carried out before forecast heavy rainfall.							
Waste Man	agement Implication (Construction Phase)		•					
7.6.1 – 7.6.3	<ul> <li><u>Good Site Practices</u></li> <li>Appropriate waste handling, transportation and disposal methods for all waste arising generated during the construction works for the Project should be implemented to ensure that construction wastes do not enter the nearby streams or drainage channel.</li> <li>It is anticipated that adverse impacts would not arise on the</li> </ul>	All works areas	CEDD/Contractor		~			Waste Disposal Ordinance DEVB TCW No. 6/2010, ETWB TCW No. 19/2005

		Location of the Implementa	Implementation	Impl	ementa	age <sup>(1)</sup>		
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	construction site, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities include:							
	<ul> <li>Nomination of approved personnel, such as a site manager, to be responsible for good site practices, and making arrangements for collection of all wastes generated at the site and effective disposal to an appropriate facility.</li> </ul>							
	<ul> <li>Training of site personnel in proper waste management and chemical waste handling procedures.</li> </ul>							
	<ul> <li>Provision of sufficient waste reception/ disposal points, of a suitable vermin-proof design that minimises windblown litter.</li> </ul>							
	<ul> <li>Arrangement for regular collection of waste for transport off- site and final disposal.</li> </ul>							
	<ul> <li>Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li> </ul>							
	<ul> <li>Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.</li> </ul>							
	<ul> <li>A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be proposed.</li> </ul>							
	- A Waste Management Plan should be prepared and should be submitted to the Engineer for approval. One may make reference to <i>ETWB TCW No. 19/2005</i> for details.							
	• In order to monitor the disposal of C&D materials at landfills and public filling areas, as appropriate, and to control fly tipping, a trip- ticket system should be included as one of the contractual requirements to be implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. One may take reference to DEVB TCW No.6/2010 for details.							
7.6.4 – 7.6.5	<ul> <li>Waste Reduction Measures</li> <li>Good management and control of construction site activities/</li> </ul>	All works areas	CEDD/Contractor	~	~			Waste Disposal Ordinance

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	processes can minimise the generation of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:							ETWB TCW No. 19/2005
	- Segregate and store different types of construction related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.							
	<ul> <li>Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors.</li> </ul>							
	<ul> <li>Any unused chemicals or those with remaining functional capacity shall be recycled.</li> </ul>							
	<ul> <li>Maximising the use of reusable steel formwork to reduce the amount of C&amp;D materials.</li> </ul>							
	<ul> <li>Prior to disposal of C&amp;D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill.</li> </ul>							
	- Adopt proper storage and site practices to minimise the potential for damage to, or contamination of, construction materials.							
	- Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated.							
	<ul> <li>Minimize over ordering of concrete, mortars and cement grout by doing careful check before ordering.</li> </ul>							
	<ul> <li>In addition to the above measures, other specific mitigation measures are recommended below to minimise environmental impacts during handling, transportation and disposal of wastes.</li> </ul>							
7.6.6 – 7.6.8	Construction and Demolition Materials	All works areas	CEDD/Contractor		~			Waste Disposal Ordinance
	The C&D materials generated from site clearance, demolition of existing roads, slope excavation works, and construction of new							Waste Disposal

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	roads, retaining wall and piling works should be sorted on-site into inert C&D materials (that is, public fill) and C&D waste. To minimise the impact resulting from collection and transportation of C&D							(Chemical Waste) (General) Regulation
	materials as far as practicable. C&D waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process. Within the stockpile areas, the following measures should be taken to control potential environmental impacts or nuisance:							Public Health and Municipal Services Ordinance (Cap. 132) - Public Cleansing and Prevention of
	<ul> <li>Waste such as soil should be handled and stored well to ensure secure containment;</li> </ul>							Nuisances Regulation
	- Covering material during heavy rainfall;							Land
	<ul> <li>Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away;</li> </ul>							(Miscellaneous Provisions) Ordinance
	- Locating stockpiles to minimise potential visual impacts; and							Code of Practice on the Packaging,
	- Minimising land intake of stockpile areas as far as possible.							Labelling and
	General Refuse							Storage of Chemical Wastes
	<ul> <li>General refuse should be stored in enclosed bins or compaction units separate from C&amp;D materials. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&amp;D materials. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material.</li> </ul>							Packaging, Labelling and Storage of Chemical Wastes
	Chemical Wastes							
	<ul> <li>If chemical wastes were to be produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the</li> </ul>							

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	corresponding chemical characteristics of the waste such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport the chemical wastes. The licensed collector shall deliver the waste to the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.							
Waste Mar	nagement Implication (Operational Phase)							
N/A	N/A	N/A	N/A					
Land Cont	amination (Construction Phase)							
N/A	N/A	N/A	N/A					
Land Cont	amination (Operational Phase)	·				•		·
N/A	N/A	N/A	N/A					
Ecological	Impact (Terrestrial) (Construction Phase)	·				•		·
9.13.2- 9.13.5	Measures to Avoid/ Minimize Impacts to Flora Species of Conservation Importance	All works areas	CEDD/Contractor		~			EIAO-TM
	• Within the Project Site boundary, two flora species of conservation importance (Incense Tree and Luofushan Joint-fir) would be subject to direct impacts. A detailed vegetation survey should be conducted by a qualified ecologist / botanist within the Project Site boundary.							
	<ul> <li>A Transplantation Proposal should be prepared by a qualified ecologist / botanist with detailed findings of the vegetation survey (i.e. number and locations of the affected individuals, assessment of the suitability and / or practicality of the transplantation) and locations of receptor site(s), transplantation methodology, implementation programme of transplantation, post-transplantation monitoring and maintenance programme. The proposal should be submitted to and approved by AFCD prior to commencement of any works (including ground investigation. The approved transplantation works should be supervised by a qualified botanist / horticulturist / Certified Arborist with relevant experience in</li> </ul>							
	transplanting flora species of conservation importance. After transplantation, a 3-year monitoring and maintenance programme							

		Location of the	Implementation	Impl	ementa	tion St	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	<ul> <li>of the transplanted species should be conducted to ensure the establishment of the transplanted trees.</li> <li>Hoarding or fencing should be erected around the works areas during the construction phase to restrict access, to adjacent habitats supporting flora species of conservation importance, by site workers and to reduce human disturbance.</li> </ul>							
9.13.6- 9.13.8	<ul> <li>Measures to Avoid/ Minimize Habitat Loss to Woodland and Plantation</li> <li>Habitat loss could be avoided in the first instance by retaining existing vegetation wherever possible, particularly mature and semi-mature trees present within the works areas. Any trees retained should be adequately protected during construction phase to promote their health and longevity. Areas which would be temporarily affected by construction activities (i.e. slope works) should be reinstated after completing the construction works.</li> <li>Hoarding or fencing should be erected around the works areas during construction phase to restrict access to natural habitats</li> </ul>	All works areas	CEDD/Contractor	×	~			EIAO-TM
9.13.9-	adjacent to works areas by site workers. Measures to Minimise Disturbance from Construction Activities	All works areas	CEDD/Contractor					EIAO-TM
9.13.12	<ul> <li>Construction dust should be suppressed to avoid and minimize the dust covering leaves of plants that would affect their photosynthesis, and thus their health and growth:</li> </ul>	All WORS aleas	CEDE/Contractor		V			
	- Regular spraying of haul roads.							
	- Proper storage of construction materials.							
	<ul> <li>Covering trucks or transporting wastes in enclosed containers to minimize windblown litter and dust during transportation of waste.</li> </ul>							
	• Noise impact during construction phase should be avoided and minimized to reduce the disturbance to the habitats adjacent to the works areas:							
	<ul> <li>Machines and plant (e.g. trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.</li> </ul>							
	- Machines and plants known to emit strong directional noise							

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	should, wherever possible, be orientated so that the noise is directed away from the nearby habitats.							
	<ul> <li>Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>							
	- Using Quiet Mechanical Plant (QMP) to limit noise emissions at source.							
	- QMP and other machines and plants (e.g. air compressors, concrete pumps) should be covered by noise enclosure to further reduce noise impact.							
	• Through night-time lighting control during construction phase, glare disturbance to wildlife would be controlled.							
9.13.13	Measures to Minimise Pollution to Watercourses	All works areas	CEDD/Contractor		~			EIAO-TM
	• Good site practices should be adopted to avoid any pollution from entering the watercourses. Practices to minimize surface runoff and to reduce suspended solid levels should be undertaken.							
	<ul> <li>Drainage arrangements should include sediment traps to collect and control construction run-off.</li> </ul>							
	- All works and storage area should be restricted to the site boundary.							
	- General refuse and construction wastes should be collected and disposed of in a timely and appropriate manner.							
	<ul> <li>Regular check of the construction boundary to avoid unmitigated impacts imposed on nearby watercourse.</li> </ul>							
Ecological	Impact (Terrestrial) (Operational Phase)	1				1	1	1
9.13.14	Measures to Minimize Impacts from Noise Barriers	All works areas	CEDD/Contractor			~		EIAO-TM
	<ul> <li>During the operational phase, the road networks and associated noise barriers may result in bird collision and mortality. Mitigation measures such as use of tinted materials and superimposing dark patterns or strips on the barrier, as per EPD / Highways Department requirements would be employed to minimise incidents</li> </ul>							

		Location of the	Implementation	Imp	lementa	ation Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
	of mortality from collision.							
Landscape	e and Visual (Construction Phase)							
10.10.4 (Table 10.9)	All existing trees to be retained shall be carefully protected during construction.	All works areas	CEDD/Contractor	~	~			DEVB TC (W) No.10/2013
10.10.4 (Table 10.9)	Tree Transplantation Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWB TCW No. 29/2004, <b>DEVB TC (W) No.7/2015</b> and " <b>Guidelines on Tree Transplanting</b> ",	All works areas	CEDD/Contractor	*	~			ETWB TCW No. 29/2004 DEVB TC (W) No.7/2015 Guidelines on
	GLTMS of DEVB.							Tree Transplanting, GLTMS of DEVB
10.10.4 (Table 10.9)	Erection of decorative screen hoarding for reducing visual impacts	All works areas	CEDD/Contractor		~			EIAO-TM
10.10.4 (Table 10.9)	Measures to avoid / minimize impacts to flora species of conservation importance.	All works areas	CEDD/Contractor	~	~			EIAO-TM
Landscape	e and Visual (Operational Phase)							I
10.10.4 (Table	Compensatory tree planting for loss of existing trees (Compensation for loss of road side amenity)	All works areas	Design and Construction Stage - CEDD	<b>v</b>	~	~		DEVB TC (W) No.7/2015
10.10)			Operational Stage – HyD/LCSD					GEO publication No. 1/2011
10.10.4 (Table	Compensatory woodland planting	All works areas	Design and Construction Stage - CEDD	~	~	~		DEVB TC (W) No.7/2015
10.10)			Operational Stage – HyD/ArchSD					GEO publication No. 1/2011

		Location of the	Implementation	Imp	lementa	ation Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
10.10.4 (Table 10.10)	Compensatory shrub mix planting	All works areas	Design and Construction Stage - CEDD Operational Stage – HyD	~	~	~		DEVB TC (W) No.7/2015 GEO publication No. 1/2011
10.10.4 (Table 10.10)	Hydro-seeding planting with shrub seed mix	All works areas	Design and Construction Stage - CEDD Operational Stage – HyD	~	V	~		DEVB TC (W) No.7/2015 GEO publication No. 1/2011
10.10.4 (Table 10.10)	Tall buffer advance screen tree / shrub / climber planting	All works areas	Design and Construction Stage - CEDD Operational Stage – HyD	V	~	~		DEVB TC (W) No.7/2015 GEO publication No. 1/2011
10.10.4 (Table 10.10)	Planting of road verges, central divider and around structures	All works areas	Design and Construction Stage - CEDD Operational Stage – HyD, LCSD	~	~	~		ETWB(W) No. 2/2004 Subject to ACABAS approval
10.10.4 (Table 10.10)	Reinstate modified watercourse	All works areas	Design and Construction Stage - CEDD Operational Stage - DSD	~	~	~		EIAO-TM
10.10.4 (Table 10.10)	Provision of visually pleasing aesthetic treatment on noise barriers ( with climbers provided if space available) and enclosures	All works areas	Design and Construction Stage - CEDD Operational Stage - HyD	~	~	~		ETWB(W) No. 2/2004 Subject to ACABAS approval
10.10.4 (Table 10.10)	Hard Landscape Treatment Carriageway, Structures and Roadside Furniture (for example, pleasing aesthetic finishing of retaining wall)	All works areas	Design and Construction Stage - CEDD	~	~	~		ETWB(W) No. 10/2005 Subject to

		Location of the	Implementation	Imp	lementa	ation St	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	0	Dec	Legislation and Guidelines
			Operational Stage – HyD/LCSD/ArchSD					ACABAS approval
10.10.4 (Table 10.10)	Planting of toe planters for slope enhancement	All works areas	Design and Construction Stage - CEDD Operational Stage – LCSD	~	~	~		EIAO-TM GEO publication No. 1/2011
10.10.4 (Table 10.10)	Planting of berm planters/ planting strips for slope enhancement	All works areas	Design and Construction Stage - CEDD Operational Stage – HyD	V	~	~		EIAO-TM GEO publication No. 1/2011
Landfill Ga	s Hazard (Construction Phase)	·	·			•	•	·
11.9.2 - 11.9.4	<ul> <li>Contractors shall note the possible presence of landfill gas in the ground (even if it is unlikely) and shall take this into account in the design, construction of the proposed works.</li> <li>A Safety Officer or an appropriately qualified person, trained in the use of gas detection equipment, landfill gas related hazards and the appropriate actions to take in the event of adverse circumstances, shall be present on site throughout the works, in particular, when works are undertaken below ground.</li> <li>The contractor shall take cognizance of the presence of surface water and leachate management system and landfill gas management systems near the proposed works area. The contractor shall take all reasonable care to avoid any damage, loss, injury, interruption or impairment of the integrity of the landfill facilities within the works limits, storage area and across road area. The contractor shall also liaise and seek EPD and their landfill contractor – Hong Kong Landfill Restoration Group Limited (HKLRG) agreement on site arrangement before carrying out the</li> </ul>	landfill consultation zones	CEDD/Contractor		¥	<i>✓</i>		EPD's Landfill Gas Hazard Assessment Guidance Note
11.9.5 - 11.9.11	<ul> <li>proposed work.</li> <li><u>Safety Measures</u></li> <li>The contractor shall be aware of, and inform all workers</li> </ul>	Works areas within landfill consultation	CEDD/Contractor		~			EPD's Landfill Gas Hazard
	accordingly, that methane and carbon dioxide is always likely to be	zones						Assessment

		Location of the	Implementation	Impl	ementa	tion Sta	age <sup>(1)</sup>	Relevant
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	ο	Dec	Legislation and Guidelines
	<ul> <li>present in the soil voids.</li> <li>All personnel working on site and all visitors to the site be informed of the nearby landfill site and the possibility of landfill gas in the vicinity of the proposed works area. Safety warning notices shall be posted.</li> <li>No worker shall be allowed to work alone at any time inside the trenches or joint bays or near to any excavation. At least one other worker shall be available to assist in a rescue in an emergency case.</li> <li>Smoking and naked flames shall be strictly prohibited within the site or confined space if any. 'No Smoking' and 'No Naked Flame' notices shall be posted prominently at the site entrance and other conspicuous locations.</li> <li>All electrical equipment, such as motors and extension cords, shall be intrinsically safe.</li> <li>Adequate safely equipment shall be available at all times. This includes but is not limited to fire extinguishing equipment, breathing apparatus and personal protective equipment.</li> <li>In the event of working inside a confined space is required, sufficient approved resuscitation equipment, breathing apparatus and safety torches shall be available. Persons involved in or supervising such work shall be trained and practiced for the use of such equipment. A permit-to-work system for entry into confined</li> </ul>			Des		0	Dec	Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space
11.9.12- 11.9.16	<ul> <li>space shall be established by an approved qualified person and consistently enforced. All relevant Ordinances, Legislations, Guidelines and Codes of Practice pertaining to work in confined space must be strictly adhered to.</li> <li>Monitoring         <ul> <li>The works area shall be monitored periodically during construction for the presence of methane, carbon dioxide and oxygen using gas detection equipment. The gas detection equipment shall be an intrinsically safe portable instrument, appropriately calibrated and capable of measuring the following gases in the ranges indicated below:</li></ul></li></ul>	Works areas within landfill consultation zones	CEDD/Contractor		×			EPD's Landfill Gas Hazard Assessment Guidance Note

		Location of the	Implementation	Impl	ementa	age <sup>(1)</sup>	Relevant	
EIA Ref.	Recommeded Mitigation Measures	Measures	Agent	Des	С	ο	Dec	Legislation and Guidelines
	<ul> <li>Carbon dioxide 0 – 100%; and</li> </ul>							
	– Oxygen 0 – 21%.							
	During construction, monitoring of excavations shall be undertaken as follows:							
	• For excavation deeper than 1 m, measurements shall be made:							
	<ul> <li>At the ground surface before excavation commences;</li> </ul>							
	<ul> <li>Immediately before any worker enters an excavation;</li> </ul>							
	<ul> <li>At the beginning of each working day for the entire period the excavation remains open; and</li> </ul>							
	<ul> <li>Periodically through the working day whilst workers are in the excavation.</li> </ul>							
	• For excavation between 300 mm and 1 m deep, measurements shall be made:							
	<ul> <li>Directly after the excavation has been completed; and</li> </ul>							
	<ul> <li>Periodically whilst the excavation remains open.</li> </ul>							
	• For excavation less than 300 mm, monitoring may be omitted at the discretion of the Safety Officer or other appropriate qualified person.							
	• The monitoring frequency and area to be monitored shall be set down prior to commencement of ground works either by the Safety Officer or by an appropriately qualified person.							
	• Monitoring should be undertaken by the Safety Officer or by an appropriately qualified person. The monitoring results shall be recorded and kept on site and shall be readily available at all times for inspection by the relevant authority.							
	<ul> <li>Depending upon the results of measurements, actions will vary. Actions shall be set down by the Safety Officer or other appropriately qualified person prior to commencement of occupancy of the proposed works area.</li> </ul>							

Note:

(1) Des = Design; C = Construction; O = Operation; Dec = Decommissioning



Appendix 4.1

Action and Limit Level



# Action and Limit Level

# Action and Limit Level for Noise Monitoring

		Limi	t Level (dB(A))	
Monitoring Station	Action Level	0700-1900 hrs on normal weekdays	0700-2300 hrs on holidays (including Sundays); and 1900-2300 hrs on all days <sup>2</sup>	2300-0700 hrs of all days <sup>2</sup>
NMC01		65 / 70 <sup>1</sup>		
NMC02	When one	75		
NMC03	documented complaint is	75	60 / 65 / 70 <sup>3</sup>	45 / 50 / 55 <sup>3</sup>
NMC04	received	75		
NMC05		75		

Remark 1: Limit level of NMC01 - Kei Shun Special School reduce to 65 dB (A) during examination periods if any.

Remark 2: Construction noise during restricted hours is under the control of Noise Control Ordinance Limit Level to be selected based on Area Sensitivity Rating.

Remark 3: Limit Level for restricted hour monitoring shall act as reference level only. Investigation would be conducted on CNP compliance if exceedance recorded during restricted hour noise monitoring period.

# Baseline Level for Noise Monitoring (For reference and calculation of Construction Noise Levels (CNLs))

		E	Baseline Level (dB(A))	
Monitoring Station	Action Level	0700-1900 hrs on normal weekdays	0700-2300 hrs on holidays (including Sundays); and 1900- 2300 hrs on all days	2300-0700 hrs of all days
NMC01		69.3	69.0	66.6
NMC02	When one	72.0	66.3	68.6
NMC03	documented complaint is	78.2	77.9	73.8
NMC04	received	66.6	64.0	62.1
NMC05		61.8	59.8	57.9

All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq – Baseline Leq = CNL), in order to facilitate the interpretation of the noise exceedance.



# Action and Limit Level for Air Quality Monitoring

Monitoring Locations	1-hour TSP Level inµg/m3		
	Action Level	Limit Level	
NCWBR_AMS-1	284.4	500.0	
NCWBR_AMS-2	282.4	500.0	
NCWBR_AMS-3	287.9	500.0	
NCWBR_AMS-4	281.6	500.0	
NCWBR_AMS-5	270.0	500.0	
LTR_AMS-1	272.1	500.0	
LTR_AMS-2	281.1	500.0	
LTR_AMS-3	285.1	500.0	

# Action and Limit Level for Water Monitoring

Monitoring Station	Surfa	се рН		ce DO g/L)	Surf Turbidit			ce SS g/L)
	Action	Limit	Action	Limit	Action	Limit	Action	Limit
	Level	Level	Level	Level	Level	Level	Level	Level
E	-	-	-	-	-	-	-	-
	Beyond	Beyond						
F	the range	the range	5.8	5.5	24.4	32.7	17.0	23.8
	of 6.6-8.4	of 6.5-8.5						
Н	-	-	-	-	-	-	-	-
	Beyond	Beyond						
I	the range	the range	5.5	5.4	206.9	214.2	172.8	201.4
	of 6.6-8.4	of 6.5-8.5						

\*Remarks:

- The value of 1.0mg/L was taken as the value for measurement with suspended solid level of <1.0mg/L for Action and Limit level calculation.

- It is recommended that upstream monitoring station (monitoring station E and H) would be taken as control reference for exceedance investigation only. Action and limit level would not be establish using the baseline data.

- In the event that the SS and Turbidity recorded from the Control Stations (E and H) are higher than the Impact Stations (I and F) on the same day of measurement, 120% and 130% of the Control Stations' results should be referenced as the Action and Limit Levels.



Appendix 4.2

Copies of Calibration Certificates



## 综合試驗 有限公司 SOILS & MATERIALS ENGINEERING CO., LTD. 香港新界葵涌永基路 2 2 - 2 4 號好爸爸創科大廈 Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong

Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



# CERTIFICATE OF CALIBRATION

Certificate No.:	22CA0511 01		Page	1	of	2
Item tested						
Description:	Sound Level Mete	r (Type 1)	Microphone		Preamp	
Manufacturer:	B&K		B & K		B&K	
Type/Model No.:	2250-L		4950		ZC0032	
Serial/Equipment No.:	2722311		2698703		13318	
Adaptors used:	-		-		-	
Item submitted by						
Customer Name:	Lam Environment	al Services Limited				
Address of Customer:						
Request No.:	12					
Date of receipt:	11-May-2022					
Date of test:	12-May-2022					
Reference equipment	used in the calib	ration				
Description:	Model:	Serial No.	Expiry Date:		Traceat	ole to:
Multi function sound calibrator	B&K 4226	2288444	23-Aug-2022		CIGISME	EC
Signal generator	DS 360	61227	27-May-2022		CEPREI	
Ambient conditions						
	22 ± 1 °C					
Temperature:	22 1 1 0					
Temperature: Relative humidity:	55 ± 10 %					

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

## Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.



Date: 13-May-2022



**Comments:** The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

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Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

Company Chop:



# 綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港新界葵涌永基路22-24號好爸爸創科大度 Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:	22CA0511 01	Page	2	of	2

## 1, Electrical Tests

The electrical tests were perfomed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
525 223 35 10 623				
Self-generated noise	A	Pass	0.3	
	С	Pass	0.8	
	Lin	Pass	1.6	
Linearity range for Leq	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	A	Pass	0.3	
1 , 3 0	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
5 5	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	Pass	0.3	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 <sup>3</sup> at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3	
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

#### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
	Weighting A at 8000 Hz	Pass	0.5	

#### 3, Response to associated sound calibrator

#### N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



# **CERTIFICATE OF CALIBRATION**

Certificate No.:	22CA1101 02-02	2	Page:	1 <b>of</b> 2
Item tested				
Description:	Acoustical Calib	rator (Class 1)		
Manufacturer:	Larson Davis			
Type/Model No.:	CAL200			
Serial/Equipment No.:	13437			
Adaptors used:	-			
Item submitted by				
Curstomer:	Lam Environmer	ntal Services Ltd.		
Address of Customer:	-			
Request No.:	-			
Date of receipt:	01-Nov-2022			
Date of test:	04-Nov-2022			
Reference equipmen	t used in the cali	bration		
Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2412857	23-May-2023	SCL
Preamplifier	B&K 2673	2743150	28-Jun-2023	CEPREI
	B&K 2610	2346941	30-Jun-2023	CEPREI
Measuring amplifier		~~~~	04 1 0000	05005
Measuring amplifier Signal generator	DS 360	33873	21-Jan-2023	CEPREI
	DS 360 34401A	33873 US36087050	21-Jan-2023 30-May-2023	CEPREI
Signal generator				

### **Ambient conditions**

Temperature:	22 ± 1 °C
Relative humidity:	55 ± 10 %
Air pressure:	1005 ± 5 hPa

### **Test specifications**

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3. The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

### **Test results**

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

1

Feng Junqi



**Comments:** The results reported in this certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument. The results apply to the item as received.

Date:

05-Nov-2022

© Soils & Materials Engineering Co., Ltd.

Approved Signatory:

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007

**Company Chop:** 



## 综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港新界葵涌永基路22-24號好爸爸創科大廈

Good Ba Ba Hitech Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



# **CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.:

22CA1101 02-02

Page: 2 of

or

2

#### 1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	dB
1000	94.00	93.76	0.10

#### 2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz	STF = 0.011 dB
Estimated expanded uncertainty	0.005 dB

### 3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz	Actual Frequency = 1000.0 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

### 4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.7%
Estimated expanded uncertainty	0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Л	1	- End -		$\sim 1$	
Calibrated by:	NY.	Checke	d by:	- ande	
	ung Chi Yip			Chan Yuk Yiu	
Date: 04-	-Nov-2022 U		Date:	05-Nov-2022	

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP156-2/Issue 1/Rev.C/01/05/2005


#### Portable Dust Meter Performance Check Record

Portable Dust Meter		
Туре	:	Particulare Monitor
Manufacturer	:	MET ONE INSTRUMENTS
Model Number	:	BT-645
Serial Number	:	C15622
Performance Check Date	:	20-Jul-22
Standard Equipment		
Туре	:	High Volume Sampler
Manufacturer	:	TISCH
Model Number	:	TE-5170
Equipment Number	:	HVS018 (S/N:2656)
Last Calibration Date	:	29-Jun-22

#### Portable Dust Meter Performance Check Results

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m <sup>3</sup> (Standard equipment) (Y - Axis)	Concentration in ug/m <sup>3</sup> (Performance Check / Calibrated equipment) (X - Axis)
1	20/7/22 09:30	31	1010	15	8
2	20/7/22 10:32	31	1010	6	6
3	20/7/22 13:00	31	1010	8	6
* Filter paper weighting was	conducted by HOKLAS accredited laboratory.	•		·	· · · · ·



Slope (K- factor)	:	3.8000
Correlation Coefficient	:	0.9918
Validity of Performance Check / Calibration Record	:	20/7/2023





#### Portable Dust Meter Performance Check Record

Portable Dust Meter		
Туре	:	Particulare Monitor
Manufacturer	:	MET ONE INSTRUMENTS
Model Number	:	BT-645
Serial Number	:	C15621
Performance Check Date	:	20-Jul-22
Standard Equipment		
Туре	:	High Volume Sampler
Manufacturer	:	TISCH
Model Number	:	TE-5170
Equipment Number	:	HVS018 (S/N:2656)
Last Calibration Date	:	29-Jun-22

#### Portable Dust Meter Performance Check Results

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m <sup>3</sup> (Standard equipment) (Y - Axis)	Concentration in ug/m <sup>3</sup> (Performance Check / Calibrated equipment) (X - Axis)
1	20/7/22 09:30	31	1010	15	8
2	20/7/22 10:32	31	1010	6	6
3	20/7/22 13:00	31	1010	8	6
* Filter paper weighting was	conducted by HOKLAS accredited laboratory.	•		•	· · · · ·

#### Linear Regression of Y on X

Slope (K- factor)	:	4.4000
Correlation Coefficient	:	0.9924
Validity of Performance Check / Calibration Record	:	20/7/2023





#### Portable Dust Meter Performance Check Record

Portable Dust Meter		
Туре	:	Particulare Monitor
Manufacturer	:	MET ONE INSTRUMENTS
Model Number	:	AEROCET831
Serial Number	:	R14332
Performance Check Date	:	17-May-22
Standard Equipment		
Туре	:	High Volume Sampler
Manufacturer	:	TISCH
Model Number	:	TE-5170
Equipment Number	:	HVS018 (S/N:2656)
Last Calibration Date	:	29-Apr-22

#### Portable Dust Meter Performance Check Results

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m <sup>3</sup> (Standard equipment) (Y - Axis)	Concentration in ug/m <sup>3</sup> (Performance Check / Calibrated equipment) (X - Axis)
1	17/5/22 09:30	33	1020	46	57
2	17/5/22 10:32	33	1020	30	44
3	17/5/22 13:00	33	1020	31	42

# Linear Regression of Y on X Slope (K- factor) : Correlation Coefficient : Validity of Performance Check / Calibration Record :





#### Portable Dust Meter Performance Check Record

Portable Dust Meter		
Туре	:	Particulare Monitor
Manufacturer	:	MET ONE INSTRUMENTS
Model Number	:	AEROCET831
Serial Number	:	W15448
Performance Check Date	:	17-May-22
Standard Equipment		
Туре	:	High Volume Sampler
Manufacturer	:	TISCH
Model Number	:	TE-5170
Equipment Number	:	HVS018 (S/N:2656)
Last Calibration Date	:	29-Apr-22

#### Portable Dust Meter Performance Check Results

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m <sup>3</sup> (Standard equipment) (Y - Axis)	Concentration in ug/m <sup>3</sup> (Performance Check / Calibrated equipment) (X - Axis)
1	17/5/22 09:30	33	1020	46	88
2	17/5/22 10:32	33	1020	30	69
3	17/5/22 13:00	33	1020	31	66
* Filter paper weighting was	conducted by HOKLAS accredited laboratory.	•		•	·

## Linear Regression of Y on X Slope (K- factor)

Slope (K- factor)	:	0.8000
Correlation Coefficient	:	0.9821
Validity of Performance Check / Calibration Record	:	17/5/2023





#### Portable Dust Meter Performance Check Record

Portable Dust Meter		
Туре	:	Particulare Monitor
Manufacturer	:	MET ONE INSTRUMENTS
Model Number	:	BT-645
Serial Number	:	X19299
Performance Check Date	:	30-Apr-22
Standard Equipment		
Туре	:	High Volume Sampler
Manufacturer	:	TISCH
Model Number	:	TE-5170
Equipment Number	:	HVS018 (S/N:2656)
Last Calibration Date	:	29-Apr-22

#### Portable Dust Meter Performance Check Results

Trial no. in 1-hr period	Time	Mean Temp (°C)	Mean Pressure (hPa)	Concentration in ug/m <sup>3</sup> (Standard equipment) (Y - Axis)	Concentration in ug/m <sup>3</sup> (Performance Check / Calibrated equipment) (X - Axis)
1	30/4/22 09:30	25	1012	46	34
2	30/4/22 10:30	25	1012	54	46
3	30/4/22 13:00	25	1012	48	37

# Linear Regression of Y on X Slope (K- factor) : 0.7000 Correlation Coefficient : 0.9982 Validity of Performance Check / Calibration Record : 30/4/2023





ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

## **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

CONTACT: CLIENT:	DEREK LO LAM ENVIRONMENTAL SERVICES LTD	WORK ORDER:	HK2308430
ADDRESS:	19/F, REMEX CENTRE, 42 WONG CHUK HANG ROAD, HONG KONG	SUB-BATCH: LABORATORY: DATE RECEIVED: DATE OF ISSUE:	0 HONG KONG 03-Mar-2023 13-Mar-2023

#### SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the

laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type:	Multifunctional Meter
Service Nature:	Performance Check
Scope:	Dissolved Oxygen, pH Value, Salinity and Temperature
Brand Name/ Model No.:	[YSI]/ [Pro Quatro]
Serial No./ Equipment No.:	[20M100002/20M101455]/ [N/A]
Date of Calibration:	10-March-2023

#### **GENERAL COMMENTS**

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

Cha Aij

Mr Chan Siu Ming, Vico Manager - Inorganics

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## **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

	8-	
6		
	(ALS)	1

WORK ORDER: HK2308430

SUB-BATCH: DATE OF ISSUE: CLIENT:	0 13-Mar-2023 LAM ENVIRONMENTAL SERVICE	ES LTD	
Equipment Type: Brand Name/ Model No.:	Multifunctional Meter [YSI]/ [Pro Quatro]		
Serial No./ Equipment No.:	[20M100002/20M101455]/ [N/A	]	
Date of Calibration:	10-March-2023	Date of Next Calibration:	10-June-2023

#### PARAMETERS:

#### Dissolved Oxygen Method Ref: APHA (23rd edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.62	1.55	-0.07
4.95	4.89	-0.06
7.06	7.15	+0.09
	Tolerance Limit (mg/L)	±0.20

#### **pH Value**

#### Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)		
4.0	3.86	-0.14		
7.0	6.98	-0.02		
10.0	9.88	-0.12		
	Tolerance Limit (pH unit)	±0.20		

#### Salinity

#### Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	10.04	+0.4
20	20.17	+0.9
30	30.44	+1.5
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Cha Ain

Mr Chan Siu Ming, Vico Manager - Inorganics

## **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

. /			
6			
	(A)	LS)	

WORK ORDER:	HK2308430		
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 13-Mar-2023 LAM ENVIRONMENTAL SERVICE	IS LTD	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	Multifunctional Meter [YSI]/ [Pro Quatro] [20M100002/20M101455]/ [N/A] 10-March-2023	Date of Next Calibration:	10-June-2023

#### PARAMETERS:

12

#### Temperature

#### Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
14.0	13.0	-1.0
24.0	22.5	-1.5
43.0	41.7	-1.3
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

The Aling

Mr Chan Siu Ming, Vico Manager - Inorganics



#### **REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION**

Information supplied by customer:					
CONTACT:	MR. DEREK LO	JOB REFERENCE NO.:	22777053-C03D3701		
CLIENT:	LAM ENVIRONMENTAL SERVIO	CES LTD.			
DATE RECEIVED:	03/03/2023				
DATE OF ISSUE:	13/03/2023				
ADDRESS:	19/F, REMAX CENTRE, 42 WONG	G CHUK HANG ROAD,			
	HONG KONG				
PROJECT:					

#### METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

#### **COMMENTS**

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of FT Laboratories Ltd will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1807073	
Equipment No.:		
Date of Calibration:	10/03/2023	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Certified By:

WONG Chi Wai Sanio Senior Chemist

Issue Date:

13/03/2023

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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION**

WORK ORDER:	22777053-C03D3701
DATE OF ISSUE:	13/03/2023
CLIENT:	LAM ENVIRONMENTAL SERVICES LTD.

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1807073	
Equipment No.:		
Date of Calibration:	10/03/2023	
Date of next Calibation:	10/06/2023	
Lab I.D.:	H230010-01	

#### **Parameters:**

Turbidity

#### Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance							
0	0.00								
4	4.00	0.0%							
10	9.98	-0.2%							
40	40.00	0.0%							
100	98.86	-1.1%							
400	400	0.0%							
1000	994	-0.6%							
	Tolerance Limit (±)	10%	÷						

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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Appendix 4.3

Wind data extracted from HKO Automatic Weather Station

### Extract of Meteorological Observations in Hong Kong for April 2023

\*The data is unavailable from the website of the Hong Kong Observatory



Appendix 5.1

Monitoring Schedules for Reporting Month

lam	SERVICE CONTRACT NO. EDO/01/2017 ENVIRONMENTAL TEAM FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - ROAD IMPROVEMENT WORKS Tentative Impact Water Quality, Air Quality and Noise Monitoring Schedule April 2023									
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday				
						1-Apr				
2-Apr		4-Apr	5-Apr	6-Apr WQM NM AQM	7-Apr	8-Apr				
9-Apr	10-Apr	11-Apr	AQM	13-Apr WQM NM	14-Apr	15-Apr WQM				
16-Apr	17-Apr WQM NM	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr				
23-Apr	24-Apr WQM AQM	25-Apr	26-Apr WQM	27-Apr	28-Apr	29-Apr				
30-Apr										

Remark:

1. WQM: Water Quality Monitoring

AQM: Air Quality Monitoring

NM: Noise monitoring is scheduled at the beginning of each week

2. Monitoring Location:	Inland Water	Station	Description
		E	Upstream Control Station
		F	Downstream Impact Station
	Channelized nullah across the project site	AC1	Upstream Control Station
		AC2	Upstream Control Station
		AC3	Upstream Control Station
	Ma Yau Tong Stream	Н	Upstream Control Station
		I	Downstream Impact Station

3. The interval between 2 sets of monitoring should not be less than 36 hours

#### SERVICE CONTRACT NO. EDO/01/2017 ENVIRONMENTAL TEAM FOR DEVELOPMENT OF ANDERSON ROAD QUARRY SITE - ROAD IMPROVEMENT WORKS Tentative Impact Water Quality, Air Quality and Noise Monitoring Schedule May 2023

r			May 2023		r	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-May	2-May WQM NM	3-May	4-May	5-May	6-May WQM
7-May	8-May WQM NM	9-May	10-May	AQM	12-May	13-May
14-May	15-May WQM NM	16-May	17-May WQM AQM	18-May	19-May WQM	20-May
21-May	WQM	23-May NM AQM	24-May	25-May	26-May	27-May WQM
28-May	29-May WQM NM AQM	30-May	31-May			

Remark:

1. WQM: Water Quality Monitoring

AQM: Air Quality Monitoring

NM: Noise monitoring is scheduled at the beginning of each week

2. Monitoring Location:	Inland Water	Station	Description
		E	Upstream Control Station
		F	Downstream Impact Station
	Channelized nullah across the project site	AC1	Upstream Control Station
		AC2	Upstream Control Station
		AC3	Upstream Control Station
	Ma Yau Tong Stream	Н	Upstream Control Station
		I	Downstream Impact Station

3. The interval between 2 sets of monitoring should not be less than 36 hours



Appendix 5.2

Noise Monitoring Results and Graphical Presentations

#### Day Time (0700 - 1900hrs on normal weekdays)

Location: NMC-01 - G/F, Kei Shun Special School

			Measure	ement Noi	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Weather	Time	Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit:	: dB(A), (5	-min)		Unit:	dB(A), (30-min)	
		13:00	71.3	76.0	64.3				
		13:05	68.4	71.1	62.3				
6 Apr 2023	Cloudy	13:10	67.5	70.1	61.8	69	69.3	<baseline level<="" td=""><td>70</td></baseline>	70
0 Apr 2020	cloudy	13:15	67.5	70.0	60.3		0010		
		13:20	66.7	69.7	59.0				
		13:25	68.0	70.8	61.5				
		09:04	69.1	71.8	64.3				
		09:09	69.1	71.5	65.0			<baseline level<="" td=""><td rowspan="3">70</td></baseline>	70
13 Apr 2023	Cloudy	09:14	69.2	71.7	64.8	69	69.3		
1071pi 2020		09:19	67.6	70.3	61.9				
		09:24	68.8	71.4	61.8				
		09:29	69.1	71.7	65.0				
		09:04	69.6	72.2	65.2		69.3	63	70
		09:09	69.8	72.7	65.2				
17 Apr 2023	Cloudy	09:14	70.4	72.9	66.5	70			
11 /10/ 2020	Cloudy	09:19	70.0	72.6	64.4	10			10
		09:24	70.2	72.7	65.7				
		09:29	71.1	73.8	66.9				1
		8:30	70.2	73.1	65.2				
		8:35	69.8	72.8	65.0				
25 Apr 2023	Fine	8:40	70.0	73.2	64.9	70	69.3	57	70
20 Apr 2020	1110	8:45	68.9	72.9	65.2	,0	00.0	57	10
		8:50	69.2	73.0	65.0				
		8:55	69.1	73.1	65.1				

#### Day Time (0700 - 1900hrs on normal weekdays)

Location: NMC-02 - 3/F podium, Shun Lee Disciplined Services Quarters Block 6

			Measure	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Weather	Time	Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit:	: dB(A), (5	-min)		Unit:	dB(A), (30-min)	
		13:42	70.2	72.4	66.5				
		13:47	70.0	72.5	66.2				
6 Apr 2023	Cloudy	13:52	69.9	72.3	65.7	70	72.0	<baseline level<="" td=""><td>75</td></baseline>	75
0 Apr 2020	Cloudy	13:57	69.9	72.4	66.4	10	72.0		10
		14:02	68.9	71.7	64.9				
		14:07	70.1	71.8	64.7				
		09:46	69.7	72.6	65.9				
		09:51	68.2	70.6	64.8			<baseline level<="" td=""><td rowspan="3">75</td></baseline>	75
13 Apr 2023	Cloudy	09:56	69.1	71.2	65.4	70	72.0		
1074012020	Cloudy	10:01	72.1	73.3	65.9				
		10:06	68.8	70.7	65.9				
		10:11	69.2	71.9	63.4				
		09:42	71.4	74.0	67.6		72.0	<baseline level<="" td=""><td rowspan="2"></td></baseline>	
		09:47	72.0	74.7	68.8				
17 Apr 2023	Cloudy	09:52	71.2	73.8	68.1	71			75
11 1101 2020	Cloudy	09:57	69.9	72.0	67.6		12.0		10
		10:02	70.7	73.1	66.8				
		10:07	71.4	73.7	67.4				
		9:20	70.5	72.9	66.1				
		9:25	71.2	73.0	66.2				
25 Apr 2023	Fine	9:30	70.6	72.8	66.0	71	72.0	<baseline level<="" td=""><td>75</td></baseline>	75
207.012020	1 110	9:35	70.5	73.1	66.2	,,,	72.0	<daseime level<="" td=""><td>15</td></daseime>	15
		9:40	70.8	73.1	66.1				
		9:45	70.4	73.0	66.2				

#### Day Time (0700 - 1900hrs on normal weekdays)

Location: NMC-03 - G/F, Sienna Garden Block 6

			Measure	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Weather	Time	Leq	L10	L90	Leq	Leq	Leq	Leq
					-min)		Unit:	dB(A), (30-min)	
		14:45	72.8	77.5	62.2				
		14:50	71.4	72.7	56.3				
6 Apr 2023	Cloudy	14:55	75.1	77.6	64.1	74	78.2	<baseline level<="" td=""><td>75</td></baseline>	75
6 Api 2023	Cloudy	15:00	74.2	77.6	61.9	74	10.2		75
		15:05	74.2	76.5	65.7				
		15:10	73.5	76.5	65.8				
		13:01	75.4	78.9	63.8				
		13:06	75.1	78.4	64.0			<baseline level<="" td=""><td rowspan="4">75</td></baseline>	75
13 Apr 2023	Cloudy	13:11	71.6	75.6	59.2	75	78.2		
13 Apr 2023	Cloudy	13:16	75.0	78.0	61.7				
		13:21	74.4	76.5	64.5				
		13:26	75.1	78.0	61.0				
		10:42	76.3	79.3	63.9		78.2	<baseline level<="" td=""><td rowspan="3">75</td></baseline>	75
		10:47	74.5	78.8	64.0				
17 Apr 2023	Cloudy	10:52	74.5	78.1	64.5	74			
11 Apr 2020	Cloudy	10:57	72.9	76.2	62.3				10
		11:02	72.7	75.8	62.5				
		11:07	74.4	76.6	64.0				
		10:05	75.1	77.2	62.5				
		10:10	75.2	77.2	63.4				
25 Apr 2023	Fine	10:15	75.4	77.0	62.8	75	78.2	<baseline level<="" td=""><td>75</td></baseline>	75
		10:20	75.0	77.0	63.5				
		10:25	75.2	77.6	63.4				
		10:30	75.6	77.5	63.2				

#### Day Time (0700 - 1900hrs on normal weekdays)

Location: NMC-04 - 3/F Podium, Po Tat Estate Tat Kai House

			Measure	ement Noi	ise Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Weather	Time	Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)			Unit: dB(A), (30-min)			
		10:29	63.1	64.4	61.0		66.6		
		10:34	64.0	65.0	62.6				
6 Apr 2023	Cloudy	10:39	64.6	66.8	57.7	64		<baseline level<="" td=""><td>75</td></baseline>	75
0 Apr 2023	Cloudy	10:44	62.9	64.3	60.9	04	00.0		15
		10:49	64.0	65.7	60.7				
		10:54	63.4	64.5	60.7				
		14:02	65.6	67.4	63.7				75
		14:07	62.4	63.1	61.5		66.6	<baseline level<="" td=""></baseline>	
13 Apr 2023	Cloudy	14:12	63.1	64.7	59.5	64			
		14:17	64.1	66.1	58.7				
		14:22	62.9	65.5	58.3				
		14:27	62.2	64.1	58.0				
		13:45	64.5	65.3	60.9		66.6	<baseline level<="" td=""><td rowspan="6">75</td></baseline>	75
		13:50	64.8	66.6	62.0				
17 Apr 2023	Cloudy	13:55	65.5	66.2	62.6	65			
	,	14:00	64.0	67.1	59.7				
		14:05	63.6	65.4	60.0				
		14:10	64.8	64.4	59.9				
		11:05	64.1	66.5	58.6				
		11:10	64.5	66.2	59.0			<baseline level<="" td=""><td></td></baseline>	
25 Apr 2023	Fine	11:15	64.5	66.3	58.4	64	66.6		75
		11:20	64.6	66.4	59.2		2.5.0		
		11:25	64.2	66.2	58.6				
		11:30	64.5	66.0	59.1				

#### Day Time (0700 - 1900hrs on normal weekdays)

Location: NMC-05 - G/F, Hong Wah Court Block B Yee Hong House

			Measure	ement Noi	se Level	Average Noise Level	Baseline Level	Construction Noise Level	Limit Level
Date	Weather	Time	Leq	L10	L90	Leq	Leq	Leq	Leq
			Unit: dB(A), (5-min)		Unit: dB(A), (30-min)				
		11:15	70.7	75.5	58.4				75
		11:20	74.7	76.7	67.4				
6 Apr 2023	Cloudy	11:25	69.2	74.8	59.7	69.6	61.8	68.8	
0 Api 2023	Cloudy	11:30	62.0	64.7	58.2	09.0	01.0	08.0	75
		11:35	62.6	66.0	57.2				
		11:40	62.0	64.4	58.2				
		16:48	65.2	68.1	61.0			58.2	75
		16:53	63.5	65.8	60.0		61.8		
13 Apr 2023	Cloudy	16:58	62.8	64.1	59.5	63.4			
13 Apr 2023		17:03	63.0	65.8	59.1	63.4			
		17:08	62.7	64.9	59.8				
		17:13	62.3	64.0	58.9				
		14:31	72.2	76.5	61.1		61.8	70.3	75
		14:36	70.3	73.0	62.2				
17 Apr 2023	Cloudy	14:41	69.7	72.4	63.1	70.9			
17 Api 2023	Cloudy	14:46	71.0	73.3	65.0	10.5			
		14:51	70.5	73.3	63.5				
		14:56	71.1	74.5	64.1				
		13:05	65.2	69.2	62.4				
		13:10	65.6	69.5	63.1			64.1	
25 Apr 2023	Fine	13:15	65.8	69.4	62.8	66.1	61.8		75
_0p. 2020		13:20	66.8	68.9	63.2		0.10	• • • •	
		13:25	66.4	69.2	63.0				
		13:30	66.8	69.5	62.9				



Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)







Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)







Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Report on 1-hour TSP monitoring at NCWBR\_AMS-1 - Shun Lee Fire Station

Action Level (µg/m3) -	284.4
Limit Level (µg/m3) -	500.0

Date	Weather Condition	Time	Mass Concentration (µg/m3)
6-Apr-23	Fine	9:18	6.4
6-Apr-23	Fine	10:19	6.1
6-Apr-23	Fine	11:20	5.0
12-Apr-23	Fine	8:48	23.4
12-Apr-23	Fine	9:49	24.2
12-Apr-23	Fine	10:50	22.1
18-Apr-23	Fine	10:03	16.0
18-Apr-23	Fine	11:04	13.0
18-Apr-23	Fine	12:05	12.4
24-Apr-23	Fine	8:56	15.4
24-Apr-23	Fine	9:57	9.8
24-Apr-23	Fine	10:58	8.0
29-Apr-23	Fine	8:19	32.5
29-Apr-23	Fine	9:20	31.9
29-Apr-23	Fine	10:21	34.8



Report on 1-hour TSP monitoring at NCWBR\_AMS-2 - Shun Lee Estate Lee Hang House

Action Level (µg/m3) -	282.4
Limit Level (µg/m3) -	500.0

Date	Weather Condition	Time	Mass Concentration (µg/m3)
6-Apr-23	Fine	9:01	81.3
6-Apr-23	Fine	10:02	61.0
6-Apr-23	Fine	11:03	48.0
12-Apr-23	Fine	8:39	20.2
12-Apr-23	Fine	9:40	14.9
12-Apr-23	Fine	10:42	16.8
18-Apr-23	Fine	9:17	70.2
18-Apr-23	Fine	10:18	53.3
18-Apr-23	Fine	11:19	49.6
24-Apr-23	Fine	8:54	20.7
24-Apr-23	Fine	9:55	12.0
24-Apr-23	Fine	10:56	13.9
29-Apr-23	Fine	8:05	37.9
29-Apr-23	Fine	9:06	37.5
29-Apr-23	Fine	10:07	37.4



#### Report on 1-hour TSP monitoring at NCWBR\_AMS-3 - Shun Lee Disciplined Services Quarters (Block 6) Action Level (µg/m3) - 287.9 Limit Level (µg/m3) - 500.0

Date	Weather Condition	Time	Mass Concentration (µg/m3)
6-Apr-23	Fine	9:24	112.9
6-Apr-23	Fine	10:25	65.5
6-Apr-23	Fine	11:26	52.7
12-Apr-23	Fine	8:59	27.6
12-Apr-23	Fine	10:00	25.4
12-Apr-23	Fine	11:01	24.7
18-Apr-23	Fine	9:23	34.2
18-Apr-23	Fine	10:24	25.4
18-Apr-23	Fine	11:25	22.2
24-Apr-23	Fine	8:49	6.7
24-Apr-23	Fine	9:50	9.9
24-Apr-23	Fine	10:51	13.1
29-Apr-23	Fine	8:45	22.6
29-Apr-23	Fine	9:46	23.2
29-Apr-23	Fine	10:46	23.2



Report on 1-hour TSP monitoring at NCWBR\_AMS-4 - Sienna Garden

Action Level (µg/m3) -	281.6
Limit Level (µg/m3) -	500.0

Date	Weather Condition	Time	Mass Concentration (µg/m3)
6-Apr-23	Fine	9:58	33.4
6-Apr-23	Fine	10:59	20.3
6-Apr-23	Fine	12:00	16.9
12-Apr-23	Fine	9:18	32.2
12-Apr-23	Fine	10:19	33.2
12-Apr-23	Fine	11:21	31.4
18-Apr-23	Fine	9:47	36.1
18-Apr-23	Fine	10:48	29.8
18-Apr-23	Fine	11:49	27.7
24-Apr-23	Fine	9:00	17.8
24-Apr-23	Fine	10:01	21.6
24-Apr-23	Fine	11:31	20.9
29-Apr-23	Fine	8:10	60.6
29-Apr-23	Fine	9:11	63.1
29-Apr-23	Fine	10:11	64.0



Date	Weather Condition	Time	Mass Concentration (µg/m3)
6-Apr-23	Fine	9:40	39.9
6-Apr-23	Fine	10:41	26.6
6-Apr-23	Fine	11:42	22.0
12-Apr-23	Fine	9:10	49.2
12-Apr-23	Fine	10:11	52.7
12-Apr-23	Fine	11:12	54.2
18-Apr-23	Fine	9:41	75.6
18-Apr-23	Fine	10:42	85.4
18-Apr-23	Fine	11:43	83.6
24-Apr-23	Fine	8:17	21.8
24-Apr-23	Fine	9:18	82.9
24-Apr-23	Fine	10:19	184.7
29-Apr-23	Fine	8:10	52.4
29-Apr-23	Fine	9:11	45.2
29-Apr-23	Fine	10:12	49.5



Report on 1-hour TSP monitoring at LTR\_AMS-1 - St Edward's Catholic Primary School

Action Level (µg/m3) -	272.1
Limit Level (µg/m3) -	500.0

Date	Weather Condition	Time	Mass Concentration (µg/m3)
6-Apr-23	Fine	8:29	56.8
6-Apr-23	Fine	9:30	41.0
6-Apr-23	Fine	10:31	39.2
12-Apr-23	Fine	10:28	23.0
12-Apr-23	Fine	11:29	20.6
12-Apr-23	Fine	12:30	19.0
18-Apr-23	Fine	10:53	21.2
18-Apr-23	Fine	11:54	18.8
18-Apr-23	Fine	12:55	18.7
24-Apr-23	Fine	8:52	67.9
24-Apr-23	Fine	9:53	83.2
24-Apr-23	Fine	10:54	61.7
29-Apr-23	Fine	8:19	44.0
29-Apr-23	Fine	9:20	35.0
29-Apr-23	Fine	10:21	33.3

#### Report on 1-hour TSP monitoring at LTR\_AMS-2 - Environmental Protection Department's Restored Landfill Site Office Action Level (µg/m3) - 281.1 Limit Level (µg/m3) - 500.0

Date	Weather Condition	Time	Mass Concentration (µg/m3)
6-Apr-23	Fine	8:30	41.3
6-Apr-23	Fine	9:31	31.8
6-Apr-23	Fine	10:32	31.4
12-Apr-23	Fine	10:21	72.0
12-Apr-23	Fine	11:22	68.0
12-Apr-23	Fine	12:23	63.0
18-Apr-23	Fine	10:35	44.9
18-Apr-23	Fine	11:36	37.8
18-Apr-23	Fine	12:37	56.1
24-Apr-23	Fine	10:30	129.4
24-Apr-23	Fine	13:00	75.7
24-Apr-23	Fine	14:01	131.8
29-Apr-23	Fine	8:48	118.6
29-Apr-23	Fine	9:49	144.3
29-Apr-23	Fine	10:50	99.0



Report on 1-hour TSP monitoring at LTR\_AMS-3 - Po Tat Estate Tat Kai House

Action Level (µg/m3) -	285.1
Limit Level (µg/m3) -	500.0

Date	Weather Condition	Time	Mass Concentration (µg/m3)
6-Apr-23	Fine	10:22	46.8
6-Apr-23	Fine	11:23	35.3
6-Apr-23	Fine	12:24	31.2
12-Apr-23	Fine	9:52	6.5
12-Apr-23	Fine	10:53	7.7
12-Apr-23	Fine	11:54	6.6
18-Apr-23	Fine	10:30	13.0
18-Apr-23	Fine	11:31	12.3
18-Apr-23	Fine	12:32	12.9
24-Apr-23	Fine	10:17	36.0
24-Apr-23	Fine	13:00	26.6
24-Apr-23	Fine	14:01	20.8
29-Apr-23	Fine	8:40	102.3
29-Apr-23	Fine	9:41	84.9
29-Apr-23	Fine	10:42	100.2



#### Service Contract No. EDO/01/2017 Environmental Team for Development of Anderson Road Quarry Site Road Improvement Works







## Service Contract No. EDO/01/2017 Environmental Team for Development of Anderson Road Quarry Site

Road Improvement Works

#### **Graphic Presentation of TSP Result**







#### Service Contract No. EDO/01/2017 Environmental Team for Development of Anderson Road Quarry Site Road Improvement Works








## Service Contract No. EDO/01/2017 Environmental Team for Development of Anderson Road Quarry Site Road Improvement Works







Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

### Water Monitoring Result at Monitoring Station E - Channelized nullah across the Project site (Upstream Control Station)

Date	Time	Weater Condition	Sampling Depth m		°C	perature Average	Va	pH - alue	Average	Va	Salini ppt alue			00 Satu % alue	ration Average	Va	DO mg/l lue		Va	Turbic NTU	lity J Average	m	led Solids g/L Average
4/4/2023	-	Cloudy	Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		-	
6/4/2023	-	Fine	Surface	-	-		-	-		-	-		-	-		-	-		-	-		-	
11/4/2023	-	Fine	Surface	-	-		-	-		-	-	-	-	-		-	-	-	-	-		-	
13/4/2023	-	Cloudy	Surface	-	-		-	-		-	-		-	-		-	-		-	-		-	
15/4/2023	-	Cloudy	Surface	-	-		-	-		-	-		-	-		-	-	_	-	-		-	
17/4/2023	-	Cloudy	Surface	-	-	_	-	-		-	-	_	-	-		-	-	_	-	-		-	_
19/4/2023	-	Cloudy	Surface	-	-		-	-		-	-		-	-		-	-		-	-		-	
21/4/2023	-	Cloudy	Surface	-	-		-	-		-	-		-	-		-	-		-	-		-	
24/4/2023	-	Cloudy	Surface	-	-		-	-		-	-		-	-		-	-		-	-		-	
26/4/2023	-	Fine	Surface	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
28/4/2023	-	Fine	Surface	-	-		-	-		-	-		-	-		-	-	-	-	-		-	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level. Upstream Monitoring Station (Monitoring Station E) would be taken as control reference for exceedance investigation only.

## Water Monitoring Result at Monitoring Station F - Channelized nullah across the Project site (Downstream Impact Station)

Date	Time	Weater Condition	Sampling Depth m		°C	berature Average	Va	pH - Ilue	Average	Va	Salini ppt alue			O Satur %	ation Average	Va	DO mg/L lue		Va	Turbid NTU alue		m	led Solids g/L Average
4/4/0000	9:40		Queferra	21.00	21.00		8.10	8.10		0.13	0.13	0.40	92.2	92.5		8.21	8.23		10.85	10.56	40.0	1.9	
4/4/2023	9:42	Cloudy	Surface	21.00	21.00	21.00	8.10	8.10	8.1	0.13	0.13	0.13	92.1	92.4	92.30	8.19	8.22	8.2	10.56	10.56	10.6	6.0	4.0
6/4/2023	9:15	Fine	Surface	21.20	21.20	21.20	8.00	8.00	8.0	0.11	0.11	- 0.11	94.3	93.6	93.10	8.37	8.31	8.3	8.16	8.15	8.2	23.3	23.8
6/4/2023	9:17	Fille	Sunace	21.20	21.20	21.20	8.00	8.00	0.0	0.11	0.11	0.11	92.8	91.7	93.10	8.24	8.14	0.3	8.15	8.15	0.2	24.2	23.0
11/4/2023	9:15	Fine	Surface	23.20	23.20	23.20	7.50	7.50	7.5	0.07	0.07	0.07	95.6	95.7	95.75	8.15	8.16	8.2	8.15	8.16	8.2	3.6	4.9
11/4/2023	9:17	1 me	Sunace	23.20	23.20	23.20	7.50	7.50	1.5	0.07	0.07	0.07	95.8	95.9	35.75	8.17	8.18	0.2	8.20	8.22	0.2	6.2	4.5
13/4/2023	0:00	Cloudy	Surface	23.60	23.60	23.60	7.78	7.78	7.8	0.13	0.13	0.13	79.2	78.3	76.68	6.71	6.63	6.5	8.80	8.79	8.8	5.0	4.7
10/4/2020	0:00	Cloudy	Gunace	23.60	23.60	20.00	7.79	7.80	7.0	0.13	0.13	0.10	75.1	74.1	70.00	6.36	6.28	0.0	8.88	8.89	0.0	4.4	4.7
15/4/2023	0:01	Cloudy	Surface	25.70	25.70	25.70	8.08	8.09	8.1	0.18	0.18	0.18	90.9	88.5	87.08	7.42	7.21	7.1	10.82	10.81	10.7	2.8	2.5
10/1/2020	0:01	cloudy	Gundoo	25.70	25.70	20.10	8.09	8.09	0.1	0.18	0.18	0.10	85.6	83.3	01.00	6.97	6.79		10.68	10.66	10.7	2.1	2.0
17/4/2023	0:00	Cloudy	Surface	24.10	24.10	24.10	6.99	7.01	7.0	0.15	0.15	0.15	92.0	92.9	91.33	7.72	7.80	7.7	16.05	16.20	16.3	3.3	3.4
	0:00	,		24.10	24.10		7.02	7.04		0.15	0.15		91.1	89.3		7.65	7.50		16.23	16.53		3.4	
19/4/2023	0:00	Cloudy	Surface	24.70	24.50	24.45	7.86	7.86	7.9	0.21	0.21	0.21	70.7	69.6	73.93	5.87	5.81	6.2	13.19	13.49	13.4	1.8	1.7
	0:00			24.30	24.30		7.86	7.87		0.21	0.21		76.8	78.6		6.42	6.57		13.45	13.42		1.6	
21/4/2023	14:00	Cloudy	Surface	22.50	22.50	22.50	7.55	7.55	7.6	0.09	0.09	0.09	95.7	95.2	95.33	8.05	8.00	8.0	7.77	7.25	7.5	16.0	10.9
	14:02			22.50	22.50		7.55	7.55		0.09	0.09		95.1	95.3		8.00	8.10		7.76	7.20		5.8	
24/4/2023	9:40	Cloudy	Surface	23.40	23.40	23.40	7.40	7.40	7.4	0.08	0.08	0.08	94.0	94.2	94.13	7.96	7.98	8.0	4.71	4.70	4.7	9.5	6.8
	9:42			23.40	23.40		7.40	7.40		0.08	0.08		94.1	94.2		7.94	7.97		4.71	4.70		4.1	
26/4/2023	9:25	Fine	Surface	20.20	20.20	20.20	8.08	8.08	8.1	0.10	0.10	0.10	110.8	110.9	110.75	10.03	10.40	10.1	4.84	4.78	4.8	41.5	23.0
	9:27			20.20	20.20		8.08	8.08		0.10	0.10		110.7	110.6		10.02	10.01		4.77	4.75		4.5	
28/4/2023	9:30	Fine	Surface	20.10	20.10	20.10	8.10	8.10	8.1	0.09	0.09	0.09	106.4	106.4	106.30	9.62	9.62	9.6	6.18	5.47	5.4	5.0	7.0
	9:32			20.10	20.10		8.10	8.10		0.09	0.09		106.2	106.2		9.60	9.60		5.03	5.01		9.0	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.

#### Water Monitoring Result at Monitoring Station H - Ma Yau Tong Stream (Upstream Control Station)

Date	Time	Weater Condition	Sampling Depth m		er Temp °C Ilue	erature Average	Va	pH - llue	Average	Va	Salini ppt Ilue	2		O Satur %	ration Average	Va	DO mg/L lue		Va	Turbidit NTU Ilue	y Average		led Solids g/L Average
4/4/0000	9:00	01	0	21.30	21.30	01.00	7.70	7.70		0.32	0.32	0.00	95.4	95.5	04.00	8.39	8.40		36.26	36.25		23.4	
4/4/2023	9:02	Cloudy	Surface	21.30	21.30	21.30	7.70	7.70	7.7	0.32	0.32	0.32	96.1	92.2	94.80	8.45	8.46	8.4	36.25	36.25	36.3	24.5	24.0
6/4/2023	8:05	Fine	Surface	21.20	21.20	21.20	7.79	7.79	7.8	0.30	0.30	0.30	84.4	85.6	86.18	8.37	8.31	8.3	26.14	26.14	26.1	25.5	25.3
6/4/2023	8:07	FINE	Sunace	21.20	21.20	21.20	7.79	7.79	7.0	0.30	0.30	0.30	87.3	87.4	00.10	8.24	8.14	0.3	26.13	26.13	20.1	25.0	25.5
11/4/2023	8:35	Fine	Surface	23.40	23.40	23.40	7.66	7.66	7.6	0.60	0.60	0.60	93.5	93.6	93.70	7.90	7.90	7.9	15.35	15.35	15.4	23.7	24.2
11/4/2023	8:37	FINE	Sunace	23.40	23.40	23.40	7.66	7.60	7.0	0.60	0.60	0.60	93.9	93.8	93.70	7.94	7.93	7.9	15.36	15.36	15.4	24.6	24.2
13/4/2023	0:00	Cloudy	Surface	22.70	22.80	22.78	8.03	7.98	8.0	4.68	4.68	4.68	67.9	72.2	70.23	5.71	6.06	5.9	6.66	6.74	6.7	3.8	3.7
13/4/2023	0:00	Cloudy	Sunace	22.80	22.80	22.70	7.93	7.93	0.0	4.68	4.68	4.00	68.9	71.9	70.23	5.77	6.02	5.5	6.56	6.64	0.7	3.6	5.7
15/4/2023	0:01	Cloudy	Surface	25.00	25.10	25.08	7.33	7.33	7.3	4.21	4.21	4.21	74.0	73.7	72.13	5.97	5.94	5.8	99.34	95.84	97.5	112.0	113.0
13/4/2023	0:01	Cloudy	Gundee	25.10	25.10	20.00	7.34	7.34	1.5	4.21	4.21	7.21	71.4	69.4	72.10	5.75	5.60	0.0	96.49	98.37	51.5	114.0	110.0
17/4/2023	0:01	Cloudy	Surface	24.60	24.60	24.60	6.18	6.22	6.2	4.10	4.10	4.10	73.9	69.5	70.43	6.01	5.66	5.7	26.94	27.18	27.2	6.9	6.7
17/4/2023	0:01	Cloudy	Sunace	24.60	24.60	24.00	6.23	6.27	0.2	4.10	4.10	4.10	67.9	70.4	70.43	5.56	5.73	5.7	27.30	27.35	21.2	6.5	0.7
19/4/2023	0:00	Cloudy	Surface	24.80	24.80	24.80	7.45	7.45	7.5	7.95	7.97	7.97	61.2	58.0	56.40	4.85	4.59	4.5	17.24	17.10	17.2	2.2	2.5
13/4/2023	0:00	Cloudy	Gunace	24.80	24.80	24.00	7.45	7.45	1.5	7.97	7.97	1.01	55.9	50.5	50.40	4.43	4.00	ч.0	17.20	17.15	17.2	2.7	2.5
21/4/2023	13:30	Cloudy	Surface	23.30	23.30	23.30	7.49	7.49	7.5	0.44	0.44	0.44	99.0	99.2	99.20	8.41	8.42	8.7	28.32	28.30	28.3	13.9	14.0
2.17.172020	13:32	eleady	Canado	23.30	23.30	20.00	7.49	7.49	1.0	0.44	0.44	0.1.1	99.1	99.5	00120	9.41	8.45	0.17	28.30	28.31	20.0	14.0	1 110
24/4/2023	8:30	Cloudy	Surface	23.40	23.40	23.30	7.54	7.54	7.5	0.41	0.41	0.41	94.0	93.9	93.93	7.98	7.97	8.0	17.80	17.80	17.8	32.7	22.8
	8:32			23.20	23.20		7.54	7.54		0.41	0.41		93.9	93.9		7.97	7.97		17.80	17.81		12.8	
26/4/2023	8:08	Fine	Surface	20.10	20.10	20.10	7.83	7.83	7.8	0.83	0.83	0.83	95.0	95.2	95.08	8.58	8.60	8.5	8.70	8.66	8.5	5.8	8.6
20, 1, 2020	8:10			20.10	20.10	20110	7.83	7.83		0.83	0.83	0.00	95.1	95.0		8.09	8.58	0.0	8.55	8.28	0.0	11.4	
28/4/2023	8:10	Fine	Surface	20.00	20.00	20.00	7.78	7.78	7.8	0.68	0.68	0.68	91.0	90.1	90.45	8.21	8.14	8.2	5.88	5.88	5.9	16.3	15.5
2011/2020	8:12	1 110	Cuildoo	20.00	20.00	20.00	7.78	7.78	1.0	0.68	0.68	0.00	90.2	90.5	00.10	8.10	8.18	0.2	5.88	5.88	0.0	14.7	10.0

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level. Upstream Monitoring Station (Monitoring Station H) would be taken as control reference for exceedance investigation only.

#### Water Monitoring Result at Monitoring Station I - Ma Yau Tong Stream (Downstream Impact Station)

Date	Time	Weater Condition	Sampling Depth m		er Temp °C Ilue	erature Average	Va	pH - lue	Average	Va	Salini ppt llue			O Satur %	ation Average	Va	DO mg/L lue	Average	Va	Turbid NTU alue		Suspend mg Value	led Solids g/L Average
	8:20			21.20	21.20		7.98	7.98		0.39	0.39		96.6	96.6	ŭ	8.54	8.55	¥	21.99	21.99		10.3	
4/4/2023	8:22	Cloudy	Surface	21.20	21.20	21.20	7.98	7.98	8.0	0.39	0.39	0.39	96.4	95.8	96.35	8.53	8.46	8.5	21.99	21.99	22.0	11.2	10.8
6/4/2023	8:30	Fine	Surface	21.30	21.30	21.30	7.80	7.80	7.8	0.35	0.35	0.35	94.9	94.7	94.68	8.39	8.37	8.4	18.61	18.62	18.7	25.2	- 21.6
0/4/2023	8:32	Fille	Sunace	21.30	21.30	21.30	7.80	7.80	7.0	0.35	0.35	0.55	94.6	94.5	94.00	8.36	8.35	0.4	18.67	18.73	10.7	17.9	21.0
11/4/2023	8:10	Fine	Surface	23.00	23.00	23.00	7.60	7.60	7.6	0.50	0.50	0.50	92.0	92.2	92.33	8.09	8.10	8.1	11.82	11.80	11.8	15.8	17.8
11/4/2023	8:12	Tinc	Gunace	23.00	23.00	20.00	7.60	7.60	7.0	0.50	0.50	0.00	92.5	92.6	32.33	8.04	8.15	0.1	11.80	11.80	11.0	19.8	17.0
13/4/2023	0:01	Cloudy	Surface	22.80	22.80	22.80	7.63	7.62	7.6	0.77	0.77	0.77	87.5	85.5	86.65	7.51	7.34	7.4	21.88	21.93	21.9	20.8	21.1
10/1/2020	0:01	oloddy	Cundoo	22.80	22.80	22.00	7.62	7.61	1.0	0.77	0.77	0.11	86.1	87.5	00.00	7.39	7.50	7.4	21.98	21.92	21.0	21.4	21.1
15/4/2023	0:01	Cloudy	Surface	24.90	24.90	24.90	7.72	7.71	7.7	1.07	1.07	1.07	88.5	89.0	88.70	7.29	7.33	7.3	16.08	16.11	16.0	8.6	8.3
10, 1/2020	0:01	0.0003		24.90	24.90	2	7.70	7.70		1.07	1.07		88.9	88.4	00.10	7.32	7.27	1.0	16.03	15.66		7.9	0.0
17/4/2023	0:01	Cloudy	Surface	24.80	24.80	24.80	7.18	7.23	7.2	0.82	0.81	0.81	84.6	83.5	83.60	6.98	6.89	6.9	14.43	15.44	15.2	5.9	5.6
	0:01			24.80	24.80		7.24	7.25		0.81	0.81		83.9	82.4		6.92	6.80		15.27	15.61		5.3	
19/4/2023	0:00	Cloudy	Surface	24.40	24.40	24.40	7.66	7.66	7.7	1.09	1.09	1.09	90.2	90.4	88.25	7.49	7.50	7.3	5.09	5.03	5.0	11.7	- 7.4
	0:00			24.40	24.40		7.66	7.66		1.09	1.09		87.8	84.6		7.29	7.02		5.05	4.95		3.1	
21/4/2023	13:00	Cloudy	Surface	23.00	23.00	23.00	7.45	7.45	7.5	0.40	0.40	0.40	96.9	92.0	95.53	8.23	8.24	8.2	35.11	35.00	35.1	41.8	42.3
	13:02			23.00	23.00		7.45	7.45		0.40	0.40		96.7	96.5		8.21	8.20	-	35.10	35.00		42.8	
24/4/2023	8:55	Cloudy	Surface	23.20	23.20	23.20	7.55	7.55	7.6	0.40	0.40	0.40	95.8	95.7	95.73	8.20	8.19	8.2	20.50	20.51	20.5	18.3	15.7
	8:57	,		23.20	23.20		7.55	7.55	-	0.40	0.40		95.6	95.8		8.08	8.21	-	20.49	20.31		13.1	
26/4/2023	8:32	Fine	Surface	20.10	20.10	20.10	7.81	7.81	7.8	0.88	0.88	0.88	85.0	105.8	100.00	8.09	9.55	9.1	6.06	6.06	6.1	16.5	- 14.0
	8:34	-		20.10	20.10		7.81	7.81	-	0.88	0.88		104.8	104.4		9.48	9.43	-	6.06	6.06	-	11.4	
28/4/2023	8:38	Fine	Surface	20.20	20.20	20.20	7.75	7.75	7.8	0.66	0.66	0.66	96.8	96.9	96.98	8.74	8.25	8.5	4.77	4.76	4.7	3.8	3.9
	8:40			20.20	20.20		7.75	7.75		0.66	0.66		97.0	97.2		8.76	8.18		4.72	4.70		3.9	

Remarks:

Single underline denotes exceedance over Action Level.

Double underline denotes exceedance over Limit Level.



## Water Monitoring Result at Monitoring Station AC1 - Channelized nullah across the Project site (Upstream Reference Station)

Date	Time	Weater Condition	Sampling Depth m		er Tem °C	perature Average		pH - alue	Average		Salini ppt ilue	ty Average		O Satu %			DO mg/l	Average		Turbic NTU	dity J Average	m	ded Solids g/L Average
	-			- Va	liue	Average	-	-	Average	-	iue -	Average	- Va	-	Average		-	Avelage	-	-	Average	- value	Average
4/4/2023	-	Cloudy	-	-	-		-	-		-	-	-	-	-		-	-		-	-		-	
6/4/2023	-	Fine	-	-	-		-	-		-	-	-	-	-		-	-		-	-		-	
	-			-	-		-	-		-	-		-	-		-	-		-	-		-	
11/4/2023	-	Fine	-	-	-		-	-		-	-	-	-	-		-	-		-	-		-	
	-			-	-		-	-		-	-		-	-		-	-		-	-		-	
13/4/2023	-	Cloudy	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-		-	
	-			-	-		-	-		-	-		-	-		-	-		-	-		-	
15/4/2023	-	Cloudy	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-		-	
	-	,		-	-		-	-		-	-		-	-		-	-		-	-		-	
17/4/2023	-	Cloudy	-	-	-	_	-	-		-	-	_	-	-		-	-		-	-		-	
, ,	-	,		-	-		-	-		-	-		-	-		-	-		-	-		-	
19/4/2023	-	Cloudy	-	-	-	-	-	-		-	-	_	-	-	-	-	-		-	-		-	
10, 1/2020	-	cloudy		-	-		-	-		-	-		-	-		-	-		-	-		-	
21/4/2023	-	Cloudy	-	-	-		-	-		-	-	_	-	-		-	-		-	-		-	
2174/2020	-	cloudy		-	-		-	-		-	-		-	-		-	-		-	-		-	
24/4/2023	-	Cloudy	_	-	-		-	-		-	-	_	-	-		-	-		-	-		-	
24/4/2023	-	Cioudy	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-		-	
26/4/2023	-	Fine		-	-		-	-		-	-		-	-		-	-		-	-		-	
20/4/2023	-	1 1116	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-		-	-
28/4/2023	-	Fine		-	-		-	-		-	-		-	-		-	-		-	-		-	
20/4/2023	-	FILLE	-	-	-		-	-		-	-	-	-	-		-	-		-	-		-	

Remarks:

## Water Monitoring Result at Monitoring Station AC2 - Channelized nullah across the Project site (Upstream Reference Station)

Date	Time	Weater Condition	Sampling Depth	Wat	er Temp °C	erature		pH -			Salini ppt	1	C	O Satur %	ation		DO ma/L			Turbidity NTU			led Solids a/L
		Condition	m	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	Average
4/4/2023	9:30	Cloudy	Surface	21.00	21.00	21.00	8.12	8.12	8.1	0.14	0.14	0.14	94.8	94.7	94.55	8.44	8.44	8.4	10.71	10.70	10.7	4.7	3.6
., ., 2020	9:32	cicuaj	Canado	21.00	21.00	21100	8.12	8.12	011	0.14	0.14	0	94.4	94.3	0 1100	8.41	8.40	0.1	10.69	10.73	1011	2.4	0.0
6/4/2023	9:05	Fine	Surface	21.10	21.10	21.10	8.00	8.00	8.0	0.10	0.10	0.10	93.3	92.5	92.65	8.29	8.21	8.2	9.21	9.20	9.3	3.00	2.8
0/1/2020	9:07	1 110	Currace	21.10	21.10	21.10	8.00	8.00	0.0	0.10	0.10	0.10	92.5	92.3	02.00	8.22	8.20	0.2	9.18	9.60	0.0	2.60	2.0
11/4/2023	9:05	Fine	Surface	23.30	23.30	23.30	7.55	7.55	7.6	0.08	0.08	0.08	94.0	94.2	93.98	7.96	7.98	8.0	10.11	10.20	10.2	7.3	4.9
11/4/2023	9:07	Tino	Gunace	23.30	23.30	20.00	7.55	7.55	7.0	0.08	0.08	0.00	93.8	93.9	55.50	7.94	7.94	0.0	10.15	10.23	10.2	2.4	4.0
13/4/2023	0:00	Cloudy	Surface	22.10	22.10	22.10	8.32	8.31	8.3	0.17	0.17	0.17	80.9	79.9	78.70	7.05	6.97	6.9	2.73	2.77	2.8	9.1	9.4
13/4/2023	0:00	Cloudy	Surace	22.10	22.10	22.10	8.30	8.30	0.5	0.17	0.17	0.17	77.4	76.6	78.70	6.75	6.68	0.9	2.82	2.81	2.0	9.6	9.4
15/4/2023	0:01	Cloudy	Surface	24.90	24.90	24.95	7.67	7.69	7.7	0.11	0.11	0.11	96.1	93.1	91.95	7.95	7.70	7.6	4.86	5.68	5.1	11.1	11.6
15/4/2023	0:01	Cloudy	Surace	25.00	25.00	24.95	7.70	7.70	1.1	0.11	0.11	0.11	90.0	88.6	91.95	7.44	7.32	7.0	5.06	4.92	5.1	12.0	11.0
17/4/2023	0:00	Cloudy	Surface	23.60	23.60	23.60	6.86	6.88	6.9	0.10	0.10	0.10	84.2	78.7	79.08	7.13	6.67	6.7	45.74	45.46	45.6	9.2	12.8
17/4/2023	0:00	Cloudy	Sunace	23.60	23.60	23.00	6.89	6.90	0.9	0.10	0.10	0.10	77.4	76.0	19.00	6.55	6.44	0.7	45.65	45.54	43.0	16.3	12.0
19/4/2023	0:00	Cloudy	Surface	23.60	23.60	23.60	7.69	7.69	7.7	0.07	0.07	0.07	74.7	72.6	72.53	6.34	6.17	6.2	168.70	165.60	165.7	76.3	68.5
13/4/2023	0:00	Cloudy	Surface	23.60	23.60	23.00	7.69	7.69	1.1	0.07	0.07	0.07	72.0	70.8	12.55	6.11	6.01	0.2	165.50	163.10	105.7	60.6	00.0
21/4/2023	13:50	Cloudy	Surface	22.80	22.80	22.80	7.58	7.58	7.6	0.10	0.10	0.10	96.0	96.2	96.25	8.10	8.12	8.1	8.55	8.50	8.5	2.9	3.7
21/7/2023	13:52	Cloudy	Oundoo	22.80	22.80	22.00	7.58	7.58	7.0	0.10	0.10	0.10	96.3	96.5	50.20	8.13	8.15	0.1	8.45	8.42	0.0	4.5	0.1
24/4/2023	9:30	Cloudy	Surface	23.50	23.50	23.50	7.45	7.45	7.5	0.09	0.09	0.09	93.5	93.6	93.40	7.91	7.92	7.9	5.99	5.95	5.9	5	3.2
24/4/2023	9:32	Cioudy	Guilace	23.50	23.50	20.00	7.45	7.45	1.5	0.09	0.09	0.03	93.2	93.3	33.40	7.88	7.89	1.5	5.90	5.92	5.9	1.3	J.2
26/4/2023	9:15	Fine	Surface	20.20	20.20	20.20	8.09	8.09	8.1	0.10	0.10	0.10	108.7	108.3	108.93	9.84	9.80	9.8	5.88	5.88	5.9	6	17.0
20/4/2023	9:17	FILLE	Sunace	20.20	20.20	20.20	8.09	8.09	0.1	0.10	0.10	0.10	109.2	109.5	100.93	9.80	9.82	9.0	6.00	6.00	0.9	28	17.0
28/4/2023	9:20	Fine	Surface	20.20	20.20	20.20	8.10	8.10	8.10	0.08	0.08	0.08	107.8	108.2	108.45	9.75	9.18	9.66	4.97	4.92	4.93	19.4	19.2
20/4/2023	9:22	FILLE	Sunace	20.20	20.20	20.20	8.10	8.10	0.10	0.08	0.08	0.00	109.0	108.8	100.40	9.86	9.83	9.00	4.93	4.89	4.90	18.9	19.2

Remarks:

Upstream Monitoring Station (Monitoring Station AC2) would be taken as reference for exceedance investigation only.

## Water Monitoring Result at Monitoring Station AC3 - Channelized nullah across the Project site (Upstream Reference Station)

Date	Time	Weater Condition	Sampling Depth m		er Temp °C Ilue	erature Average	Va	pH - alue	Average	Va	Salini ppt lue	ty Average		O Satur %	ation Average	Va	DO mg/L lue		Va	Turbid NTU		m	ded Solids ig/L Average
4/4/2023	-	Cloudy	Surface	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	
6/4/2023	-	Fine	Surface	-	-	_	-	-	-	-	-	-	-	-	_	-	-		-	-	-	-	<u> </u>
11/4/2023	-		0	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
11/4/2023	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13/4/2023	0:00	Cloudy	Surface	23.50 23.60	23.50 23.60	23.6	7.46 7.40	7.46 7.42	7.4	0.14	0.14 0.14	0.1	76.0 80.9	73.9 76.3	76.8	6.45 6.86	6.27 6.47	6.5	5.73 5.60	5.78 5.70	5.7	2.2 2.3	2.3
15/4/2023	0:01	Cloudy	Surface	24.70		24.7	7.28	7.28	7.3	0.25	0.25	0.3	89.4	87.4	86.6	7.42	7.25	7.2	12.10	12.08	12.2	2.4	2.0
	0:01			24.70 23.40	24.70 23.40		7.28 6.49	7.28 6.50		0.25 0.31	0.25 0.31		85.6 74.4	83.8 73.6		7.10 6.32	6.95 6.25		12.17 14.74	12.37 14.77		1.6 6.1	<u> </u>
17/4/2023	0:00	Cloudy	Surface	23.50	23.50	23.5	6.51	6.53	6.5	0.31	0.31	0.3	71.4	69.3	72.2	6.06	5.88	6.1	16.77	16.61	15.7	7.2	6.7
19/4/2023	0:00	Cloudy	Surface	23.80 23.80	23.80 23.80	23.8	7.48 7.48	7.48 7.48	7.5	0.17	0.17 0.17	0.2	67.0 65.2	65.9 69.4	66.9	5.65 5.50	5.56 5.85	5.6	36.17 43.58	40.53 44.62	41.2	9.7 13.6	11.7
21/4/2023	-	Cloudy	Surface	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-
24/4/2023	-	7:12	Surface	-	-		-	-	_	-	-	-	-	-	_	-	-		-	-	_	-	
	-			-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
26/4/2023	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
28/4/2023	-	Fine	Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	

Remarks:

Upstream Monitoring Station (Monitoring Station AC3) would be taken as reference for exceedance investigation only.

























Graphic Presentation of WQM Result



































#### Station AC2 - Upstream reference station - DO























Appendix 5.5

Monthly Summary Waste Flow Table

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

		Actual Quan	tities of Inert C&I	O Materials Genera	ted Monthly			Actual Quantities	of C&D Wastes (	Generated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract (see Note 6)	Reused in other Projects (see Note 6)	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste (see Note 5)	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	1.318	0.000	0.105	0.707	0.506	0.000	0.006	0.120	0.232	0.000	0.026
Feb	1.518	0.000	0.390	0.712	0.415	0.000	0.000	0.000	0.000	0.000	0.040
Mar	2.316	0.000	1.035	0.372	0.908	0.081	0.000	0.000	0.000	0.000	0.033
Apr	2.338	0.000	0.383	0.000	1.956	0.221	0.000	0.000	0.000	0.000	0.027
May											
Jun											
Sub-total	7.490	0.000	1.913	1.792	3.785	0.302	0.006	0.120	0.232	0.000	0.126
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	7.490	0.000	1.913	1.792	3.785	0.302	0.006	0.120	0.232	0.000	0.126

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

Notes:

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

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

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

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

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

(6) Assume a dump truck delivers  $7.5 \text{ m}^3$  material in 1 trip.



Appendix 6.1

**Event Action Plans** 



#### **Event and Action Plan for Construction Noise**

EVENT		ACTION	
	ET	IEC ER	CONTRACTOR
Action Level being exceeded	<ol> <li>Notify ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	<ol> <li>Review the investigation results submitted by the ET;</li> <li>Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures.</li> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Require Contractor to propose remedial measures for the analyzed noise problem;</li> <li>Ensure remedial measures are properly implemented.</li> </ol>	<ol> <li>Submit noise mitigation proposals to ET Leader / ER;</li> <li>Implement noise mitigation proposals.</li> </ol>
Limit Level being exceeded	<ol> <li>Inform IEC, ER, Contractor and EPD;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Identify source and investigate the cause of exceedance;</li> <li>Carry out analysis of Contractor's working procedures;</li> <li>Discuss with the IEC, Contractor and ER on remedial measures required;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of remedial measures;</li> <li>If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further proposal if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the ER until the exceedance is abated.</li> </ol>



### Event and Action Plan for Construction Air Quality

		ACTION		
EVENT	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform Contractor, IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method; and</li> <li>Review and advise the ET and ER on the effectiveness of the proposed remedial measures.</li> </ol>	1. Notify Contractor.	<ol> <li>Identify source(s), investigate the causes of exceedance and propose remedial measures;</li> <li>Implement remedial measures; and</li> <li>Amend working methods agreed with the ER as appropriate</li> </ol>
2. Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform Contractor, IEC and ER;</li> <li>Advise the Contractor and ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with Contractor, IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET, ER and Contractor on possible remedial measures;</li> <li>Advise the ET and ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> <li>If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.</li> </ol>	<ol> <li>Identify source and investigate the causes of exceedance;</li> <li>Submit proposals for remedial measures to the ER with a copy to ET and IEC within three working days of notification;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal as appropriate.</li> </ol>



## Event and Action Plan for Construction Air Quality (Con't)

			ACTION				
EVENT	ET	•	IEC	EF	र	CC	ONTRACTOR
LIMIT LEVEL							
1. Exceedance for one sample	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Identify source, investigate the causes of exceedance and propose remedial measures; Inform Contractor, IEC, ER, and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	1. 2. 3.	of exceedance in writing;	1. 2. 3. 4. 5.	investigate the causes of exceedance; Take immediate action to avoid further exceedance; Submit proposals for remedial measures to ER with a copy to ET and IEC within three working days of notification; Implement the agreed proposals; and
2. Exceedance for two or more consecutive samples	1. 2. 3. 4. 5. 6. 7. 8. 9.	Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring.	<ol> <li>Check monitoring data submitted by the ET;</li> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	1. 2. 3. 4.	of exceedance in writing; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; and	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> </ol>	investigate the causes of exceedance; Take immediate action to avoid further exceedance; Submit proposals for remedial measures to the ER with a copy to the IEC and ET within three working days of notification; Implement the agreed proposals; Revise and resubmit proposals if problem still not under control; and



### Event and Action Plan for Water Quality

EVENT		ACTI	ON	
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
Action level being exceeded by one sampling day	<ol> <li>Repeat in situ measurement to confirm findings;</li> <li>Identify reasons for noncompliance and source(s) of impact;</li> <li>Inform IEC and Contractor;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Repeat measurement on next day of exceedance.</li> </ol>	<ol> <li>Discuss with ET, ER and Contractor on the mitigation measures;</li> <li>Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Discuss with ET, IEC and Contractor on the proposed mitigation measures;</li> <li>Make agreement on the mitigation measures to be implemented.</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Inform the ER and confirm notification of the noncompliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Consider changes of working methods;</li> <li>Discuss with ET, ER and IEC and propose mitigation measures to IEC and ER;</li> <li>Implement the agreed mitigation measures.</li> </ol>
Action level being exceeded by more than one consecutive sampling days	<ol> <li>Repeat in situ measurement to confirm findings;</li> <li>Identify reasons for noncompliance and source(s) of impact;</li> <li>Inform IEC and Contractor;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Prepare to increase the monitoring frequency to daily;</li> <li>Repeat measurement on next day of exceedance.</li> </ol>	<ol> <li>Discuss with ET, ER and Contractor on the mitigation measures;</li> <li>Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Discuss with ET, IEC and Contractor on the proposed mitigation measures;</li> <li>Make agreement on the mitigation measures to be implemented;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Inform the ER and confirm notification of the noncompliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Consider changes of working methods;</li> <li>Discuss with ET, ER and IEC and propose mitigation measures to IEC and ER within three working days;</li> <li>Implement the agreed mitigation measures.</li> </ol>



### Event and Action Plan for Water Quality (cont'd)

EVENT	ACTION										
	ET	IEC	ER	CONTRACTOR							
LIMIT LEVEL											
Limit level being exceeded by one sampling day	<ol> <li>Repeat in situ measurement to confirm findings;</li> <li>Identify reasons for noncompliance and source(s) of impact;</li> <li>Inform IEC Contractor and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level.</li> </ol>	<ol> <li>Discuss with ET, ER and Contractor on the mitigation measures;</li> <li>Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>Request Contractor to critically review the working methods;</li> <li>Make agreement on the mitigation measures to be implemented;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ol> <li>Inform the ER and confirm notification of the noncompliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Consider changes of working methods;</li> <li>Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within three working days;</li> <li>Implement the agreed mitigation measures.</li> </ol>							
Limit level being exceeded by more than one consecutive sampling days	<ol> <li>Repeat in situ measurement to confirm findings;</li> <li>Identify reasons for noncompliance and source(s) of impact;</li> <li>Inform IEC Contractor and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.</li> </ol>	<ol> <li>Discuss with ET, ER and Contractor on the mitigation measures;</li> <li>Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>Request Contractor to critically review the working methods;</li> <li>Make agreement on the mitigation measures to be implemented;</li> <li>Supervise the implementation of remedial measures;</li> <li>Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level.</li> </ol>	<ol> <li>Inform the ER and confirm notification of the noncompliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Consider changes of working methods;</li> <li>Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within three working days;</li> <li>Implement the agreed mitigation measures;</li> <li>As directed by the ER, to slow down or to stop all or part of the construction activities.</li> </ol>							



### Event and Action Plan for Landscape and Visual

EVENT	ACTION											
	ET	IEC	ER	CONTRACTOR								
LIMIT LEVEL												
Nonconformity on one occasion	<ol> <li>Identify source(s);</li> <li>Inform the Contractor, IEC and ER;</li> <li>Discuss remedial actions with IEC, ER and Contractor;</li> <li>Monitor remedial actions until rectification has been completed</li> </ol>	<ol> <li>Check inspection report;</li> <li>Check contractor's working method;</li> <li>Discuss with ET, ER and Contractor on possible remedial measures;</li> <li>Advise ER on effectiveness of proposed remedial measures;</li> <li>Check implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of non-conformity in writing</li> <li>Review and agree on the remedial measures proposed by the Contractor;</li> <li>Supervise implementation of remedial</li> </ol>	<ol> <li>Identify source and investigate the non- conformity</li> <li>Implement remedial measures</li> <li>Amend working methods agreed with ER as appropriate</li> <li>Rectify damage and undertake any necessary replacement</li> </ol>								
Repeated Nonconformity	<ol> <li>Identify source(s)</li> <li>Inform the Contractor, IEC and ER;</li> <li>Discuss inspection frequency</li> <li>Discuss remedial actions with IEC, ER and Contractor</li> <li>Monitor remedial actions until rectification has been completed;</li> <li>If non- conformity stops, cease additional monitoring</li> </ol>	<ol> <li>Check inspection report</li> <li>Check Contractor's working method</li> <li>Discuss with ET, ER and Contractor on possible remedial measures</li> <li>Advise ER on effectiveness of proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Notify the Contractor</li> <li>In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Identify source and investigate the non- conformity</li> <li>Implement remedial measures</li> <li>Amend working methods agreed with ER as appropriate</li> <li>Rectify damage and undertake any necessary replacement. Stop relevant portion of works as determined by ER until the non- conformity is abated.</li> </ol>								



Appendix 6.2

Summary for Notification of Exceedance



#### Lam Environmental Services Limited

Ref no.	Date	Location	Parameters	Measured	Action Level	Limit Level	Follow-up action	
			<u>(Unit)</u>					
202304_RIW2_1	6/4/2023	F	рН	8.0	6.6-8.4	6.5-8.5	Possible reason:	Natural variation in water quality due to unknown sources or rainfalls in the vicinity of the water quality monitoring station.
			DO(mg/l)	8.3	5.8	5.5		
			Turbidity	8.2	24.4	32.7		
			SS (mg/L)	23.8	17.0	23.8		
							Action taken/ to be taken:	Repeated in-situ measurement had been conducted immediately to confirm the exceedances. The construction activities conducted at the time was checked with the Contractor.
							Remarks/ Other Observations:	Since the SS level at the Control Stations during the same time period was much lower, the exceedance is considered to be project related. Although the recorded level didn't exceed the limit level in the discharge licence, the Contractor is reminded to ensure the wastewater treatment facility is operating properly to avoid any potential exceedance.
202304_RIW2_2	26/4/2023	F	рН	8.1	6.6-8.4	6.5-8.5	Possible reason:	Natural variation in water quality due to unknown sources or rainfalls in the vicinity of the water quality monitoring station.
			DO(mg/l)	10.1	5.8	5.5		
			Turbidity	4.8	24.4	32.7	Action taken/ to be	Repeated in-situ measurement had been conducted immediately to confirm
			SS (mg/L)	23.0	17.0	23.8		the exceedances. The construction activities conducted at the time was checked with the Contractor.
							Remarks/ Other Observations:	Since the SS level at the Control Stations during the same time period was much lower, the exceedance is considered to be project related. Although the
								recorded level didn't exceed the limit level in the discharge licence, the Contractor is reminded to ensure the wastewater treatment facility is operating properly to avoid any potential exceedance.



Appendix 8.1

Complaint Log



## Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		DSD	Water Bay Road, near the junction of	The complainant reported that muddy water was improperly overflown from the construction site under Contract NE/2017/03 at Clear Water Bay Road and eventually to the downstream public storm water drainage system on 02 September 2019	The investigation report from contractor has revealed that the gaps between sand bags at site boundary would be the potential source of muddy water leakage.	Closed
					Remedial action taken according to the investigation report conducted by Contractor:	
					<ol> <li>The sand bags were replaced by cement sand mortar which filled the gaps between water-filled barriers along the site boundary to block the leakage point.</li> </ol>	
					<ol> <li>Additional sedimentation tank has been added to increase buffer for further treatment by the wastewater treatment facility.</li> </ol>	
	2 September 2019				<ol> <li>Concrete ramp was provided at the site entrance to mitigate against potential surface runoff related impact.</li> </ol>	
	2010				<ol> <li>Specific training for the subcontractor and front-line staff has been provided to enhance their knowledge on the requirements of discharge license.</li> </ol>	
					ET recorded WQM exceedance on SS on 06 Sept 2019 and 09 Sept 2019, effectiveness of remedial measures under rainy days requires close monitoring. Regular joint site inspections on 06 &19 September 2019 had observed that wastewater treatment facilities required further improvement particularly in rainy days.	
					ET and IEC recommended contractor to provide proper protection to the nearby gullies like membrane or sandbags.	
					ET reminded Contractor/RSS to inform ET and IEC upon the receipt of environmental complaint to allow timely investigation.	


Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
20200315	15 March 2020	Resident of Hong Wah Court	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, resident of Hong Wah Court, reported to CEDD by email dated on 15 March 2020 that the resident at Hong Wah Court was affected by the noise nuisance from the construction site under Contract NE/2017/03 at Lin Tak Road since the construction activities started for approximately one year especially for the period under the attack of coronavirus-19 recently.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. Noise barriers have been setup along the haul road and working area as much as possible.</li> <li>2. The head of the drillers and breakers has been wrapped with noise absorption materials during operation.</li> <li>3. The contractor has made different combination of group of plants to avoid multiple noisy works operating at the same time.</li> <li>4. Moveable noise barrier was observed in place for breaking works.</li> </ul>	Closed
20200403	3 April 2020	Resident of Hong Wah Court	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, a resident of Hong Wah Court, reported to AECOM through the hotline dated on 3 April 2020 that the resident at Hong Wah Court was affected by the noise nuisance from the construction site under Contract NE/2017/03 at Lin Tak Road. She claimed that the slope cutting works have been carried out from 8:00 to 18:00, which was very annoying and made her anxious especially under the situation that the government called citizen to stay at home avoiding the infection of coronavirus-19. The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 7 April 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitorings, slope cutting with breaker and driller were the major sources of the construction noise.	Remedial action taken according to the observations by ET: 1. Noise barriers have been setup along the haul road and working area, and only partially covered the works area and plants due to limited site conditions. 2. The head of the drillers and breakers had been wrapped with noise absorption materials during operation.	Closed
20200420	20 April 2020	Resident of Hong Wah	Slope at Lin Tak Road, Opposite to	The complainant, a resident of Hong Wah Court, reported to AECOM through the hotline dated on 20 April 2020 that the noise level generated from the construction	Remedial action taken according to the observations by ET:	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Court	Hong Wah Court	site at the slope of Lin Tak Road reached 80-90 dB consecutively from 8:00 to 18:30 and affecting their health. Moreover, the district councilor has reflected the complaint from resident of Hong Wah Court and query about the implementation of the noise barrier.	<ol> <li>Sequencing of works to avoid the operation of breaker and driller at the same time</li> <li>No remedial action was taken by contractor on improving the setting up of noise barriers for the covering of working area and the plant.</li> <li>No remedial action was taken by contractor on deploying movable noise barrier at drilling works or wrapping noise reductive materials at the head of the driller.</li> </ol>	
0200518	18 May 2020	Public	New Clear Water Bay Road from the construction site at the slope under Shun Lee Disciplined Services Quarters	The complainant reported through the 1823 electronic form dated on 18 May 2020 that silty water was discharged to public road, New Clear Water Bay Road, from the construction site at the slope under Shun Lee Disciplined Services Quarters. The complaint concerned on the silty runoff at New Clear Water Bay Road was referred by AECOM to ET on 21 May 2020. According to the information provided by the contractor, silty runoff to public road was due to the damaged pipe at the top of the slope Shun Lee Disciplined Services Quarters, water leaked from the pipe flew along the exposed down slope and became silty.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. Placing sand bags at the perimeter of the site and the site exit as bunds.</li> <li>2. Repairing the damaged pipe to stop the water leakage.</li> </ul>	Closed
20200525	25 May 2020	Public	New Clear Water Bay Road from the construction site at the slope under Shun Lee Disciplined Services Quarters	The complainant reported through the 1823 electronic form dated on 25 May 2020 that silty water was discharged to public road, New Clear Water Bay Road from the construction site at the slope under Shun Lee Disciplined Services Quarters. The complaint concerned on the silty runoff at New Clear Water Bay Road was referred by AECOM to ET on 3 June 2020 respectively. According to the observation and inspection, the silty runoff should be caused by the large volume of water flow through the soil surface of the construction site after heavy rainfall.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>Placing sand bags at the site boundary and the site exit as bunds.</li> <li>Deployed one more set of sedimentation tank and wastewater treatment facilities.</li> <li>Diversion of part of the runoff from the top of the slope to avoid flowing through soil surface.</li> </ul>	Closed
202007007	7 July 2020	Resident of Hong Wah	Slope at Lin Tak	The complainant, District Councilor, reported to AECOM through the hotline dated on 7 July 2020 that the	Remedial action taken according to the observations	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Court	Road, Opposite to Hong Wah Court	resident complaint the construction noise generated from the construction site at the slope of Lin Tak Road was annoying and no mitigation measures for the construction noise was implemented. The complaints regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 7 July 2020 respectively. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, slope cutting with breaker and driller were the major sources of the construction noise.	<ul> <li>by ET:</li> <li>Setting up of noise barriers for the covering of working area and the plant was observed since 15 June 2020.</li> <li>Quieter breaker, claimed by the contractor, was observed installed.</li> <li>The plant and working area were covered by noise barrier most of the time during the monitoring and inspections.</li> </ul>	
20200718	18 July 2020	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, District Councilor, reported to AECOM through the hotline dated on 18 July 2020 that no water spraying was carried out by contractor during dusty construction works at the slope of Lin Tak Road and fugitive dust was observed and cause dust impact to the complainant's property. The complaints regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 20 July 2020 respectively. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, slope cutting with breaker and driller were the major sources of dust emissions.	Remedial action taken according to the observations by ET: 1. Facilities for water spraying was observed being setup at the slope of Lin Tak Road.	Closed
20200718	18 July 2020	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, District Councilor, reported to AECOM through the hotline dated on 18 July 2020 that the resident of block C complained the construction noise generated from the construction site at the slope	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. Setting up of noise barriers for the covering of working area and the plant was observed since</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				of Lin Tak Road was causing noise nuisance. The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 20 July 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, slope cutting with breaker and driller were the major sources of the construction noise.	<ol> <li>15 June 2020.</li> <li>Quieter breaker, claimed by the contractor, was observed installed.</li> <li>The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>Sequencing of works was observed that the driller and breaker were operated alternatively to avoid concurrent noisy works.</li> </ol>	
20200724	24 July 2020	Public	New Clear Water Bay Road near Sienna Garden	The complainant, resident of Sienna Garden, reported to AECOM through the hotline dated on 24 July 2020 that the noise generated from the air compressor at the construction site of New Clear Wter Bay Road Road was annoying. The complaints regarding the construction noise at New Clear Water Bay Road referred by AECOM was received by ET on 27 July 2020 respectively. According to the observation on-site and information provided by the contractor, piling work was conducting near Sienna Garden at New Clear Water Bay Road.	Remedial action taken according to the observation during inspection conducted by ET: 1. Setting up of noise barriers for screening up the air compressor was observed since 30 July 2020.	Closed
20200729	29 July 2020	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, Resident of Hong Wah Court, reported to AECOM through the hotline dated on 29 July 2020 that the construction noise generated from the construction site at the slope of Lin Tak Road was causing noise nuisance to upper level of the building and the phone call of the complainant was influenced. The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 30 July 2020.	<ol> <li>Remedial action taken according to the observations by ET:</li> <li>Setting up of noise barriers for the covering of working area and the plant was observed since 15 June 2020.</li> <li>Quieter breaker, claimed by the contractor, was observed installed.</li> <li>The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>Sequencing of works was observed that the</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, slope cutting with breaker and driller were the major sources of the construction noise.	driller and breaker were operated alternatively to avoid concurrent noisy works.	
20200825	25 August 2020	Public	New Clear Water Bay Road near Choi Wan Estate	The complainant reported to 1823 online dated on 25 August 2020 that the construction noise generated from the construction site at New Clear Water Bay Road adjacent to Choi Wan Estate was causing noise nuisance to complainant's apartment. Construction activities starting from 8:30 to dusk and even on Sunday. The construction activities have been conducted for a year especially for drilling works. The complainant has measured the construction noise with mobile app and obtained 64dB in average for one driller. The complainant said the condition was worse when two to three drillers operated at the same time. The complainant asked the completion date of the construction works and whether the construction noise would affect the health of people as the complainant was seriously influenced by the noise and causing insomnia. The complaint regarding the construction noise at New Clear Water Bay Road referred by CEDD and AECOM was received by ET on 30 August 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that ELS to RW pile cap and construct RW footing were the major construction works conducted under contract NE/2017/03 at the photo record provided by the complaint at RIW1 near New Clear Water Bay Road adjacent to Choi Wan Estate starting from June 2020 to August 2020. Based on the observation of recent monitoring, excavation, grouting, welding and loading and unloading of materials were the major sources of the construction noise. Pre-drilling works have been conducted at the section near New Clear	Remedial action taken according to the observations by ET: No further mitigation measure for construction noise was implemented at the moment as no drilling works were observed recently.	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Water Bay Road adjacent to the Shun Lee Disciplined Services Quarters which is distance from the area that the complainant mentioned.		
20200831	31 August 2020	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, Resident of Hong Wah Court, reported to AECOM through the hotline dated on 31 August 2020 that the construction noise generated from the construction site at the slope of Lin Tak Road was causing noise nuisance and also causing air quality impact. The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 2 September 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, slope cutting with breaker and driller were the major sources of the construction noise. Besides, breaking, drilling and loading and unloading of dusty materials were the major sources spreading dust.	<ol> <li>Remedial action taken according to the observations by ET:</li> <li>Setting up of noise barriers for the covering of working area and the plant was observed since 15 June 2020.</li> <li>Quieter breaker, claimed by the contractor, was observed installed.</li> <li>The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>Sequencing of works was observed that the driller and breaker were operated alternatively to avoid concurrent noisy works.</li> <li>Water spraying for breaking works was observed.</li> </ol>	Closed
20200925_1	25 Sep 2020	Public	Slope at Lin Tak Road, opposite to Hong Wah Court	The complainant, district councillor, reported to AECOM through the hotline dated on 25 and 26 September 2020 that the residents from Block B and C have complaint the construction noise generated from the construction site at the slope of Lin Tak Road was causing noise nuisance and queried about the standard level of construction level and the limit level set for the project. The measurement from the resident reached 107dB. The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 28 September 2020. According to the information provided by the contractor, and also reported in EM&A monthly report,	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The condition of noise barriers was improved on 30 September 2020 and extended the coverage on 8 October 2020.</li> <li>2. Quieter breaker, claimed by the contractor, was observed installed.</li> <li>3. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, breaking works and drilling works were the major sources of the construction noise.		
20200925_2	25 Sep 2020	EPD	Slope at Lin Tak Road, opposite to Hong Wah Court	The complainant reported to EPD dated on 25 September 2020 that the contractor did not comply with the commitment of using silent equipment and the noise barriers were not placed properly. The complainant complaint about the equipment generated noise reaching 60dB to 80dB, which has exceeded the limit stated in EIAO. The complainant was also unsatisfied with the improper use of noise barriers, for example, the plant was not covered by noise barrier and the noise barriers were not relocated according to the change in working area. The complaint regarding the construction noise at Lin Tak Road referred by EPD was received by ET on 28 September 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, breaking works and drilling works were the major sources of the construction noise.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The condition of noise barriers was improved on 30 September 2020 and extended the coverage on 8 October 2020.</li> <li>2. Quieter breaker, claimed by the contractor, was observed installed.</li> <li>3. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> </ul>	Closed
20200926	26 Sep 2020	EPD	Slope at Lin Tak Road, opposite to Hong Wah Court	The complainant reported to EPD dated on 26 September 2020 that the contractor did not comply with the commitment of paying extra effort in noise blocking and delay the starting time to 10:00 and end at 17:00. The construction noise generated reaching 80dB consecutively from 10:00 to 18:30. The complaint regarding the construction noise at Lin Tak Road referred by EPD was received by ET on 28 September 2020. According to the information provided by the	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The condition of noise barriers was improved on 30 September 2020 and extended the coverage on 8 October 2020.</li> <li>2. Quieter breaker, claimed by the contractor, was observed installed.</li> <li>3. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, breaking works and drilling works were the major sources of the construction noise.		
20200927_1	27 Sep 2020	EPD	Slope at Lin Tak Road, opposite to Hong Wah Court	The complainant reported to EPD dated on 27 September 2020 that the contractor did not comply with the commitment of paying extra effort in noise blocking and delay the starting time to 10:00 and end at 17:00. The complaint regarding the construction noise at Lin Tak Road referred by EPD was received by ET on 28 September 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, breaking works and drilling works were the major sources of the construction noise.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The condition of noise barriers was improved on 30 September 2020 and extended the coverage on 8 October 2020.</li> <li>2. Quieter breaker, claimed by the contractor, was observed installed.</li> <li>3. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> </ul>	Closed
20200927_2	27 Sep 2020	EPD	Slope at Lin Tak Road, opposite to Hong Wah Court	The complainant reported to EPD dated on 26 September 2020 that the contractor did not comply with the commitment of paying extra effort in noise blocking and delay the starting time to 10:00 and end at 17:00. The construction noise generated reaching 80dB consecutively from 10:00 to 18:30. The complaint regarding the construction noise at Lin Tak Road referred by EPD was received by ET on 28 September 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, breaking works and drilling works were the major sources of the	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The condition of noise barriers was improved on 30 September 2020 and extended the coverage on 8 October 2020.</li> <li>2. Quieter breaker, claimed by the contractor, was observed installed.</li> <li>3. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				construction noise.		
20200928	28 Sep 2020	EPD	Slope at Lin Tak Road, opposite to Hong Wah Court	The complainant reported to EPD dated on 28 September 2020 that the construction noise level was within 50dB to 60dB and was acceptable from May 2020 to 21 September 2020. Starting from 21 September 2020, slope works have moved towards the estate to under 50m in distance. Moreover, the noise barriers were not erected properly by the workers and the construction noise level reached 80dB to 100dB. The restriction due to level difference of the construction site was understood by the considerate area was at relatively flat ground and should have enough space for setting up noise barrier. The contractor should follow the EIAO to minimize the construction noise and comply with the commitment of using quieter method or exploring other methods, hence, the residents do not have to suffer the high construction noise environment, The contractor may consider using quieter breaker and better materials for reducing the construction noise. The complaint regarding the construction noise at Lin Tak Road referred by EPD was received by ET on 28 September 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, breaking works and drilling works were the major sources of the construction noise.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The condition of noise barriers was improved on 30 September 2020 and extended the coverage on 8 October 2020.</li> <li>2. Quieter breaker, claimed by the contractor, was observed installed.</li> <li>3. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> </ul>	Closed
20201105	5 Nov 2020	EPD	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, general public, reported to EPD dated on 5 November 2020 that noise nuisance was generated from the construction site of Chun Wo. The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 10 November 2020. According to the information provided by the	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>2. Noise absorption material was observed installed at the upper level.</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, breaking works and drilling works were the major sources of the construction noise.	<ol> <li>Additional noise barrier was observed installed at lower level on 9 November 2020.</li> <li>Sequencing of noisy works to be not operating at the same time for most of the time during inspection.</li> <li>Grouping of PME and scheduled working time have been set by the contractor shown on site.</li> </ol>	
20201106	6 Nov 2020	EPD	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, general public, reported to EPD dated on 6 November 2020 that the incident of construction noise from Lin Tak Road have happened for more than two months. The residents at Hong Wah Court have complaint to the contractor, consultant and CEDD as well as the distrct councilor but no improvement was observed and the noise generated were very disturbing. The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 10 November 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, breaking works and drilling works were the major sources of the construction noise.	<ol> <li>Remedial action taken according to the observations by ET:</li> <li>The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>Noise absorption material was observed installed at the upper level since 20 October 2020.</li> <li>Additional noise barrier was observed installed at lower level on 9 November 2020.</li> <li>Sequencing of noisy works to be not operating at the same time for most of the time during inspection.</li> <li>Grouping of PME and scheduled working time have been set by the contractor shown on site.</li> </ol>	Closed
20201109	9 Nov 2020	EPD	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, general public, reported to EPD dated on 9 November 2020 that the use of quiet equipment and the noise barriers were not installed properly. The noise generated by the plants using on site have reached 60dB to 80dB and exceeded the limit stated in EIAO. The improper installation of noise barriers was the most unsatisfactory for the resident that the plant always worked beyond the coverage of noise barriers and the noise barriers were not setup according to the working progress. The complaint regarding the construction noise at Lin	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>2. Noise absorption material was observed installed at the upper level since 20 October 2020.</li> <li>3. Additional noise barrier was observed installed at lower level on 9 November 2020.</li> <li>4. Sequencing of noisy works to be not operating at</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				Tak Road referred by EPD was received by ET on 9 November 2020. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, breaking works and drilling works were the major sources of the construction noise.	<ul> <li>the same time for most of the time during inspection.</li> <li>5. Grouping of PME and scheduled working time have been set by the contractor shown on site.</li> </ul>	
20201111	11 Nov 2020	EPD	Tseung Kwan O Road near Tseung Kwan O Tunnel	The complainant reported to EPD that effluent discharge was observed from the construction site of CEDD near the Tseung Kwan O Tunnel dated on 11 November 2020. The incident has been observed for 6 months. The complaint concerned on the effluent discharge at Tseung Kwan O Road was referred by EPD to ET on 16 November 2020. According to the observation and inspection, the incident was caused by the overflow of runoff due to the blockage of gully and no connection of temporary drainage system was observed between the site and the gully at Tseung Kwan O Road and no discharge was observed from the site to the nearby gully.	Remedial action taken according to the observations by ET: 1. No remedial action is needed	Closed
20210123	23 Jan 2021	EPD	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, general public, reported to EPD dated on 23 January 2021 that the construction noise was serious and the work period was predicted to be end in 2023 was considered to be long. The complainant has also mentioned the noise barrier was observed but not efficient in noise reduction. The complainant request the contractor to wrap the driller head during drilling works; cover the drilling area entirely by noise barrier till the line of sight of all levels could be blocked; setting up noise monitoring station at different floors at Hong Wah Court; increase number of inspection; setting up limit in length of noisy works in future.	<ol> <li>Remedial action taken according to the observations by ET:</li> <li>The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>Noise absorption material was observed installed at the upper level since 20 October 2020.</li> <li>Additional noise barrier was observed installed at lower level on 9 November 2020.</li> <li>Cantilever was observed at middle level since 12 January 2021.</li> <li>Sequencing of noisy works to be not operating at the same time for most of the time during</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				The complaint regarding the construction noise at Lin Tak Road referred by EPD was received by ET on 11 February 2021. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, drilling works were the major sources of the construction noise.	inspection. 6. Grouping of PME and scheduled working time have been set by the contractor shown on site.	
20210205	05 Feb 2021	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, district councilor, reported to AECOM through project hotline dated on 05 February 2021 that the residents reflected the noise mitigation measures were not efficient, around 70% of time the driller worked outside the noise barriers coverage, making noise. The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 05 February 2021. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, drilling works were the major sources of the construction noise.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>2. Noise absorption material was observed installed at the upper level since 20 October 2020.</li> <li>3. Additional noise barrier was observed installed at lower level on 9 November 2020.</li> <li>4. Cantilever was observed at middle level since 12 January 2021.</li> <li>5. Sequencing of noisy works to be not operating at the same time for most of the time during inspection.</li> <li>6. Grouping of PME and scheduled working time have been set by the contractor shown on site.</li> </ul>	Closed
20210206	06 Feb 2021	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, resident of Hong Wah Court, reported to AECOM through project hotline dated on 06 February 2021 that the residents reflected that one excavator was in operation from 08:20 and one driller was in operation later from 08:40 on 06 February 2021.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. The plant and working area were covered by noise barrier in most of the time during noise</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 01 March 2021. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019.	<ul> <li>monitoring and site inspections.</li> <li>Noise absorption material was observed installed at the upper level since 20 October 2020.</li> <li>Additional noise barrier was observed installed at lower level on 9 November 2020.</li> <li>Cantilever was observed at middle level since 12 January 2021.</li> <li>Sequencing of noisy works to be not operating at the same time for most of the time during inspection.</li> <li>Grouping of PME and scheduled working time have been set by the contractor shown on site.</li> </ul>	
20210310	10 Mar 2021	Public	New Clear Water Bay Road near Choi Wan Estate	The complainant reported to 1823 online dated on 10 March 2021 that the construction noise generated from the construction site at New Clear Water Bay Road adjacent to Choi Wan Estate was causing noise nuisance to complainant's apartment. The complaint regarding the construction noise at New Clear Water Bay Road near Choi Wan Estate referred by CEDD and AECOM was received by ET on 15 March 2021. According to the information provided by the contractor, and also reported in EM&A monthly report, that earth works temporary soil nail, form working platform, reinforced concrete works and no-fine concrete construction were the major construction works conducted under contract NE/2017/03 in the past three months at RIW1 near New Clear Water Bay Road. Based on the observation of recent monitoring, excavation and loading and unloading of materials were the major sources of the construction noise.	Remedial action taken according to the observations by ET: 1. No further mitigation measure for construction noise was implemented at the moment.	Closed
210427_1	27 Apr 2021	Public	Clear Water Bay Road, near Sienna	The complainant, resident of No.8 Fei Ha Road, reported to AECOM through the hotline dated on 27 April 2021 that the construction activities were	Remedial action taken according to the observations by ET:	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
			Garden block 6	<ul> <li>commenced around 7:00 am, making big noise "boom boom" from the construction site under Contract NE/2017/03 at Clear Water Bay Road. Nearby residents were affected by the noise nuisance and the complainant asked Contractor to commence the construction activities after 9:00 am.</li> <li>In addition, the complainant also reflected that the windows need to be closed all the time due to the fugitive dust from the construction works at RIW2. Contractor was required to review and enhance the dust mitigation measures.</li> <li>The complaints regarding the construction noise and dust at Clear Water Bay Road referred by AECOM was received by ET on 27 April 2021.</li> <li>According to the information provided by the contractor, and recent site inspections, that breaking, excavation, and mini-pile works were conducted under contract NE/2017/03 at RIW2 of Clear Water Bay Road. Based on the observation of recent monitoring, breaking and piling were the major noise source.</li> </ul>	<ol> <li>Noise barriers have been setup for noise mitigation measure.</li> <li>QPME was observed on site.</li> <li>Work sequence at Clear Water Bay Road near residential estate was re-arranged, piling works will be commenced after 09:00am in order to minimize the nuisance to the residents and commencement time of other site activities will be remained unchanged.</li> <li>Water spraying has been applied and cylindrical tarpaulin was used to enclose the piling area for dust suppression measures.</li> </ol>	
210427_2	27 Apr 2021	Public	Clear Water Bay Road, near Sienna Garden block 6	The complainant, reported to AECOM through the hotline dated on 27 April 2021 that they were affected by the noise nuisance from the construction site under Contract NE/2017/03 at Clear Water Bay Road in the early morning. The complaints regarding the construction noise at Clear Water Bay Road referred by AECOM was received by ET on 27 April 2021. According to the information provided by the contractor, and recent site inspections, that breaking, excavation, and mini-pile works were conducted under contract NE/2017/03 at RIW2 of Clear Water Bay Road. Based on the observation of recent monitoring, breaking and piling were the major noise source.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. Noise barriers have been setup for noise mitigation measure.</li> <li>2. QPME was observed on site.</li> <li>3. Work sequence at Clear Water Bay Road near residential estate was re-arranged, piling works will be commenced after 09:00am in order to minimize the nuisance to the residents and commencement time of other site activities will be remained unchanged.</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
210508	08 & 10 May 2021	Public	Clear Water Bay Road, near Sienna Garden block 6	The complainant, resident of No. 8 Fei Ha Road, reported to AECOM through the hotline dated on 08 and 10 May 2021 that they were severely affected by the noise nuisance and fugitive dust from the construction site under Contract NE/2017/03 at Clear Water Bay Road. The complaints regarding the construction noise and fugitive dust at Clear Water Bay Road referred by AECOM was received by ET on 12 May 2021. According to the information provided by the contractor, and recent site inspections, that breaking, excavation, and mini-pile works were conducted under contract NE/2017/03 at RIW2 of Clear Water Bay Road. Based on the observation of recent monitoring, breaking and piling were the major noise source.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. Noise barriers have been setup for noise mitigation measure.</li> <li>2. QPME was observed on site.</li> <li>3. Work sequence at Clear Water Bay Road near residential estate was re-arranged, piling works will be commenced after 09:00am in order to minimize the nuisance to the residents and commencement time of other site activities will be remained unchanged.</li> <li>4. Water spraying has been applied and cylindrical tarpaulin was used to enclose the piling area for dust suppression measures.</li> </ul>	Closed
210614	14 June 2021	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, general public, reported to EPD dated on 14 June 2021 that nearby residents were affected by the construction noise generated from the driller in relation to the site area at Lin Tak Road in the early morning The complaint regarding the construction noise at Lin Tak Road referred by EPD was received by ET on 24 June 2021. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring, drilling and breaking works were the major sources of the construction noise.	<ol> <li>Remedial action taken according to the observations by ET:</li> <li>The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>Noise absorption material was observed installed at the upper level since 20 October 2020.</li> <li>Additional noise barrier was observed installed at lower level on 9 November 2020.</li> <li>Sequencing of noisy works to be not operating at the same time for most of the time during inspection.</li> <li>Grouping of PME and scheduled working time have been set by the contractor shown on site.</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
210831	31 August 2021	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, general public, reported to EPD dated on 31 August 2021 that nearby residents were affected by the construction noise generated from the driller in relation to the site area at Lin Tak Road in the morning. The complaint regarding the construction noise at Lin Tak Road referred by EPD was received by ET on 03 September 2021. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019. Based on the observation of recent monitoring and construction site diary on August 2021, drilling and rock splitting work were the major sources of the construction noise.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>4. The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>5. Noise absorption material was observed installed at the upper level since 20 October 2020.</li> <li>6. Additional noise barrier was observed installed at lower level on 9 November 2020.</li> <li>7. Sequencing of noisy works to be not operating at the same time for most of the time during inspection.</li> <li>8. Grouping of PME and scheduled working time have been set by the contractor shown on site.</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
210916	16 September 2021	Public	At New Clear Water Bay Road near Choi Wan Estate	The complainant reported to 1823 online dated on 16 September 2021 that the construction noise generated from the construction site at New Clear Water Bay Road adjacent to Choi Wan Estate was causing noise nuisance to complainant's apartment. Construction activities starting from 8:30 to dusk and even on Sunday. The construction activities have been conducted for a year especially for drilling works. The complainant has measured the construction noise with mobile app and obtained 64dB in average for one driller. The complainant said the condition was worse when two to three drillers operated at the same time. The complainant asked the completion date of the construction works and whether the construction noise would affect the health of people as the complainant was seriously influenced by the noise and causing insomnia. The complaint regarding the construction noise at Lin Tak Road referred by CEDD and AECOM was received by ET on 23 September 2021. According to the information provided by the contractor, and also reported in EM&A monthly report, that ELS to RW pile cap and construct RW footing were the major construction works conducted under contract NE/2017/03 at the photo record provided by the complaint at RIW1 near New Clear Water Bay Road adjacent to Choi Wan Estate. Based on the observation of recent monitoring, excavation, piling, grouting, welding and loading and unloading of materials were the major sources of the construction noise.	<ul> <li>Remedial action taken according to the observations by ET:</li> <li>1. Noisy equipment such as rock breakers were installed with noise barrier and absorptive material during operation.</li> <li>2. QPMEs and site activities rescheduling have been installed and planned by the contractor as mitigation measures.</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
210930	30 September 2021	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, reported to AECOM through project hotline dated on 30 September 2021 that the residents reflected that the construction noise generated from the construction site at the slope of Lin Tak Road causing large noise nuisance from 8 am to 6 pm during working days. The complaint regarding the construction noise at Lin Tak Road referred by AECOM was received by ET on 30 September 2021. According to the information provided by the contractor, and also reported in EM&A monthly report, that slope works using drill and split method were conducted under contract NE/2017/03 at RIW3 of Lin Tak Road starting from August 2019.	<ol> <li>Remedial action taken according to the observations by ET:</li> <li>The plant and working area were covered by noise barrier in most of the time during noise monitoring and site inspections.</li> <li>Noise absorption material was observed installed at the upper level since 20 October 2020.</li> <li>Additional noise barrier was observed installed at lower level on 9 November 2020.</li> <li>Cantilever was observed at middle level since 12 January 2021.</li> <li>Sequencing of noisy works to be not operating at the same time for most of the time during inspection.</li> <li>Grouping of PME and scheduled working time have been set by the contractor shown on site.</li> </ol>	Closed
211013	13 October 2021	Public	Slope at Lin Tak Road	The complainant reported through Project hotline that muddy runoff was observed from the construction site of CEDD near Lin Tak Road dated on 13 October 2021. The complaint concerned on the muddy runoff at Lin Tak Road was referred by RSS to ET on 18 October 2021. According to the observation and inspection, muddy runoff was caused by the adverse weather, Amber Rainstorm Warning Signal and Strong Wind Signal no.8 came into force on 13 October 2021. Heavy rainfall flowed down the slope and became muddy.	Remedial action taken according to the observations by ET: The Contractor has reinforced the bundings in the site area to prevent any potential muddy runoff from leaking outside the site area.	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
220214	14 February 2022	Public	New Clear Water Bay Road, near the Shun Lee Disciplined Services Quarters	The complainant reported to 1823 hotline on 14 February 2022 regarding construction noise and air pollution generated from the RIW2 construction sites. The case was referred to the ET on 4 March 2022. According to the Contractor's information, erection of formwork, piling excavation, sheet piling and grouting were conducted at RIW2 during February 2022. According to the monitoring records and inspections, there were no noise and air quality exceedances recorded at the monitoring stations at RIW2 during January, February and March 2022. Noise barriers around PMEs and water spraying as dust suppression were observed to be implemented by the Contractor.	Remedial actions to the Contractor as recommended by ET: 1. Turn off any noisy equipment in idle. 2. Provide regular water spraying in the site area during dry period.	Closed
220801	1 August 2022	EPD	New Clear Water Bay Road, near the Shun Lee Disciplined Services Quarters	The complainant has contacted EPD before August 2022 who noticed a 24 hour low frequency mechanical noise such as grouting noise and drilling noise emanating from the construction site (RIW1) at New Clear Water Bay Road since early June 2022. The case was referred to the ET on 1 August 2022. According to Contractor's information, pilling works were being conducted at RIW1 during day times in this time period. No major works with PMEs were scheduled between 19:00 and 07:00. No recent CNP was applied to the complained section of the site area.	Remedial actions to the Contractor as recommended by ET: 1. Turn off any PMEs after 19:00 on each working days. Inspections should be conducted by the Contractor to ensure compliances.	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
221010	10 October 2022	Public	Slope at Lin Tak Road, Opposite to Hong Wah Court	The complainant, resident of Hong Wah Court, reported to AECOM through project hotline on 10 October 2022 regarding the inadequate noise barrier for the rock breaker at Slope D3 during its operation at 8:40am, 8 Oct 2022 and 10:05am, 10 Oct 2022. According to Contractor's and complainant's information, rock breaking works were being conducted at Slope D3 during this time period. Noise barrier was presented at the slope near the breaker but was considered to be inadequate.	<ul> <li>The complaint is considered to be project related.</li> <li>Remedial actions to the Contractor as recommended by ET:</li> <li>1. Grouping of the PMEs and works schedule should be further reviewed to reduce the noise impact to the residents. The Contractor should provide the works schedule and notifications at the site entrance.</li> <li>2. Additional noise barriers should be provided around the rock breaker by the Contractor to mitigate the noise impact.</li> </ul>	Closed
221014	14 October 2022	Public	Slope at Lin Tak Road, Opposite to Hing Tin Estate	The complainant, resident of Hing Tin Estate, reported to AECOM through project hotline on 14 October 2022 regarding the inadequate noise barrier for the rock breaker at Slope D4 during its operation at 10:15am, 14 Oct 2022. According to Contractor's and complainant's information, rock breaking works were being conducted at Slope D4 during this time period. Noise barrier was presented at the slope near the breaker but was considered to be inadequate.	<ul> <li>The complaint is considered to be project related.</li> <li>Remedial actions to the Contractor as recommended by ET:</li> <li>1. Grouping of the PMEs and works schedule should be further reviewed to reduce the noise impact to the residents. The Contractor should provide the works schedule and notifications at the site entrance.</li> <li>2. Additional noise barriers should be provided around the rock breaker by the Contractor to mitigate the noise impact.</li> </ul>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
				The complainant, resident of Hong Wah Court, contacted EPD in February 2023 regarding the inadequate noise barrier for the rock breaker at Slope D3 during its operation in day time. The case was referred to the ET on 15 March 2023.	The complaint is considered to be project related. Additional noise monitoring were subsequently conducted by the ET to ensure compliance of the construction noise level in this works area.	
10 February		Slope D3 at Lin Tak	According to Contractor's and complainant's information, rock breaking works were being conducted	Remedial actions to the Contractor as recommended by ET:		
230210	2023	EPD	Road	at Slope D3 during this time period. Noise barrier was presented at the slope near the breaker but was considered to be inadequate.	<ol> <li>Grouping of the PMEs and works schedule should be further reviewed to reduce the noise impact to the residents. The Contractor should reduce the amount of PMEs working at the same time to reduce the impact.</li> </ol>	Closed
					<ol> <li>Additional noise barriers were provided around the rock breaker by the Contractor to mitigate the noise impact.</li> </ol>	
				The complainant, resident of Hong Wah Court, reported to AECOM through project hotline on 11 March 2023 regarding the inadequate noise barrier for the rock breaker at Slope D3 during its operation at 9:00am, 11 March 2023.	The complaint is considered to be project related. Additional noise monitoring were subsequently conducted by the ET to ensure compliance of the construction noise level in this works area.	
230311	11 March 2023	Public	Slope D3 at Lin Tak Road	According to Contractor's and complainant's information, rock breaking works were being conducted at Slope D3 during this time period. Noise barrier was presented at the slope near the breaker but was considered to be inadequate.	<ul> <li>Remedial actions to the Contractor as recommended by ET:</li> <li>1. Grouping of the PMEs and works schedule should be further reviewed to reduce the noise impact to the residents. The Contractor should reduce the amount of PMEs working at the same time to reduce the impact.</li> </ul>	Closed
					<ol> <li>Additional noise barriers were provided around the rock breaker by the Contractor to mitigate the noise impact.</li> </ol>	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
230320	20 March 2023	Public	Near New Clear Water Bay Road	The complainant reported to AECOM through project hotline on 20 March 2023 regarding the noise of the construction works from the site RIW1 at New Clear Water Bay Road in the morning. According to Contractor's information, pilling works were being conducted at RIW1 during this time period. Noise level exceedance was not recorded in this works area for the past year.	<ul> <li>The complaint is considered to be project related.</li> <li>Additional noise monitoring were subsequently conducted by the ET to ensure compliance of the construction noise level in this works area.</li> <li>Remedial actions to the Contractor as recommended by ET:</li> <li>1. Grouping of the PMEs and works schedule should be further reviewed to reduce the noise impact to the residents. The Contractor should reduce the amount of PMEs working at the same time to reduce the impact.</li> <li>2. Additional noise barriers should be provided around the PMEs by the Contractor to mitigate the noise impact.</li> </ul>	Closed



Appendix 9.1

**Construction Programme of Individual Contracts** 

2011029         ADD 11462 24. Modellink 1970/2002 42 20141         VM         14.942-50           00109000000 WORK         VM         20.9424 A         20.9424 A         20.9424 A           0010900000 WORK         VM         20.9424 A         20.9424 A         20.9424 A           0010900000 WORK         VM         20.9424 A         20.9424 A         10.9424 A           00109000 WORK         VM         20.9424 A         10.9424 A         10.9424 A           0010910 WORK         VM         20.9424 A         10.9424 A         10.9424 A           0010910 WORK         VM         20.9424 A         10.9424 A         10.9424 A           0010910 WORK         VM         20.9424 A         10.9424 A         10.9424 A           0010910 WORK         VM         20.9424 A         10.9424 A         10.9424 A           0010910 WORK         VM         20.9424 A         10.9424 A         10.9424 A           0010910 WORK         VM         20.9424 A         10.9424 A         10.9424 A           0010910 WORK         VM         20.9424 A         10.9424 A         10.9424 A           0010910 WORK         VM         20.9424 A         10.9424 A         10.9424 A           0010910 WORK         VM         20.9424 A </th <th>D</th> <th>Activity Name</th> <th>Duration</th> <th>Start</th> <th>Finish</th> <th>20 Apr MM</th>	D	Activity Name	Duration	Start	Finish	20 Apr MM
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Desch Letter Nythe         Pfed         21Jun 27A         Pin-2A           Chill 100         Desch edder with SVC2 (2004, 67, 10)         GO         2-Jun 27A         Number 2004, 700, 700, 700, 700, 700, 700, 700,			666	21-Jun-21 A	20-Apr-24	
Contraction       Brange & differ which (WCD gook 4.0.1, 0)       60.       2-30-021/h.       10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -					· · ·	
Control 100         Read work (PACU 2004 45, 7.4)         60         29.1.874 4         48-86-34           Control 2011/214         Ineed acces (Pace 47, 7.6)         720         48-16-72         29.4.4.7.3           Control 2011/214         Carl browing at CTS         720         48-16-72         29.4.4.7.3           Control 2011/214         Carl browing at CTS         720         48-16-72         29.4.4.7.3           Control 2011/214         Carl browing at CTS         720         49.4.4.7.3         724.4.7.3           Control 2011/214         Carl browing at CTS         720         724.4.7.3         724.4.7.3           Control 2011/214         Carl browing at CTS         720         724.4.7.3         724.4.7.3           Control 2011/214         Carl browing at CTS         720         724.4.7.3         724.4.7.3           Control 2011/214         Carl browing at CTS         720         724.4.7.3         724.4.7.3           Control 2011/214         Carl browing at CTS         720         724.4.7.3         724.4.7.3           Control 2011/214         Carl browing at CTS         724.4.7.3         724.4.7.3         724.4.7.3           Control 2011/214         Carl browing at CTS         Carl browing at CTS         724.4.7.3         724.4.7.3           Control 2		Drainage & utilities works (RWC2 type 4, 6, 7, 8)			•	
CON12514         Indel acce fars (1 mod (2002) gers (4.7.6)         72         Q4A.921 A         17.4.922 A         29.4.921 A           CON11000         Gas Mar liberary (1 mod (2)) (staggd)         20         17.4.922 A         0.9.422 A           CON11000         Cas Mar liberary (1 mod (2)) (staggd)         20         17.4.922 A         0.9.422 A           CON11000         Cas Mar liberary (1 mod (2)) (staggd)         20         17.4.922 A         0.9.423 A           CON11000         Cas Mar liberary (1 mod (2)) (staggd) (staggd)         40         51.1.607 A         29.424 A           CON11000         Carefuld aclong (1 mod (2)) (staggd)						-
CON119300         CED wave by af CF         282         19.4m-22 A         29.4m-23 A           CON119210         CECERS() Waterman develop de la pletteren grant and only W300 P         30         11.4m,22 A         30.4m 2.2m           CON119211         International Windows Sing and and the theorem grant and only W300 P         40         11.4m,22 A         30.4m 2.2m           CON119211         International Windows Sing and and Pletteren grant and only W300 P         40         90.4m-23 A         29.4m-23 A           CON119210         Contrast maint of CECERS () Waterman develop sing Pletteren grant and only W300 P         40         90.4m-23 A         27.4m-23 A           CON119260         Contrast maint of CECERS () Waterman develop sing Pletteren grant and only W300 P         40         90.4m-23 A         27.4m-23 A           CON119260         Contrast maint of CECERS () W20 P × 3 L est () W20 P         40         40.4m-23 A         10.4m-23 A           CON119260         Contrast maint of W20 P2 P × 3 L est () W20 P         40         40.4m-23 A         10.4m-23 A           CON119260         Contrast maint W20 W20 P × 3 L est () W20 P         40         40.4m-23 A         10.4m-23 A           CON119260         Contrast w20 W20 P × 2 L est () W20 P         10.4m-23 A         10.4m-23 A         10.4m-23 A           CON1192760         Contrast w20 W20 P × 2 L est () W						
COM1450A         Case Main Deviation lot phy Song Mark         28         11.44gr 22A         20.4423           COM1237         Case Main Deviation lot of song Mark Controls (MVRDAD         30         17.44gr 22A         11.44gr 22A           COM1237         Case Mark Controls (MVRDAD         30         17.44gr 22A         11.44gr 22A           COM1236         Case Mark Controls (MVRDAD         30         12.44gr 22A         11.44gr 22A           COM1236         Case Mark Controls (MVRDAD         40         12.44gr 22A         11.44gr 22A           COM1236         Case Mark Controls (MVRDAD         40         12.44gr 22A         11.44gr 22A           COM1236         Case Mark Controls (MVRDAD         40         12.44gr 22A         12.44gr 22A           COM1236         Case Mark Controls (MVRDAD         40         12.44gr 22A         12.44gr 22A           COM1236         Case Mark Controls (MVRDAD         40         12.44gr 22A         12.44gr 22A           COM1237         Case Mark Controls (MVRDAD         40         12.44gr 22A         12.44gr 22A           COM1237         Case Mark Controls (MVRDAD         40         2.44gr 22A         12.44gr 22A           COM1237         Case Mark Controls (MVRDAD         12.44gr 22A         12.44gr 22A         12.44gr 22A				-		
CONTROLE         CEXIMU Wateres at such the surfaces ago und and the fly WBD 4         20         17.4 mg 22.4         20.4 mg 22.4           CONTROLE         Value Wateres at such wateres at und wateres at wateres						
CONN027:         Future ICS or NOC2 (app 5 due to informer pound states CONN026         States 24.         2 Mar 23.           CONN026         Constate if lastice INCS/T00 (by poly poly poly poly poly poly poly pol					•	
CON10300         Loganda yooks at Katalan, Nr. 11NEA-KB (pr.ph.yoptanthol). 3924         44         31-120-224         21-46-23           CON12400         Construct dataway and xoll (CSCF set falls)         66         60-40-23         23-46-23           CON12400         Construct dataway and xoll (CSCF set falls)         66         63-40-23         23-46-23           CON12500         Construct dataway and and xoll (CSCF set falls)         67         03-400-23         22-46-23           CON12500         Pred to data water's (PT.0222 to 200022) structure to data backs of the constructure to data and t				•		
CON12430         Contrastit thatkif (SY2 sets tack)         64         69 Jun 23A         29 Apr 23           CON12430         Contrastitutionary value of the SY2 sets of the S					•	
CON1240:         Constraintuburg value at GMI (N227 estable)         00         00 - 10 - 20 - 20 - 20 - 20 - 20 - 20 -						
CON1450         urganity oxis at Protein No. 116/APG (by p-by-chronicol					•	
CONVIDIDE         (NDC2 VII) Indexember (VIDD2 20 VIDD202) and VIDD2 VIDD2 VIDD2 VIDD2 VIDD201           CONVIDIDE         (CDC2 VIDD201) Methods (VIDD202 VIDD201) and VIDD202           CONVIDIDE         VIDD201 (VIDD201) VIDD202 VIDD201) and VIDD202           CONVIDIDE         (CDC2 VIDD201) VIDD201 (VIDD202 VIDD201) and VIDD202           CONVIDIDE         CONVIDIDE         VIDD201 (VIDD201) VIDD201 (VIDD202 VIDD201) And VIDD202           CONVIDIDE         CONVIDIDE         VIDD201 (VIDD201) VIDD201 (					•	
CONINEQ:         Prod-Inf words on (70)         0         21-Marg-23         21-Marg-23           CONING:         Head branch & ELS: No Rep de prof/NCL by a 3, step: 11 hsm         72         22-Marg-23         01-Apr-23           CONING:         Oncentral CP big foundaming professoral (19-Marg-23) 2000/022-pindexide NRC2 size         0         22-Marg-23         01-Apr-23           CONING:         Control CP big foundaming professoral (19-Marg-23) 2000/022-pindexide NRC2 size         0         22-Marg-23         01-Apr-23           CONING:         MCE2:020-brance NRC watch schemation         10         02-Apr-23         11-Apr-23           CONING:         MCE2:020-brance NRC watch schemation         14         0-Apr-23         12-Apr-23           CONING:         (CESTP) / MRC with Association (19-HEV-10), Size, Introl)         14         0-Apr-23         22-Apr-23           CONING:         (CESTP) / MRC with Association on constraint on Provide NRC state NRC with NRC state NRC with NRC state NRC state NRC with NRC state NRC					•	-
CON10750         Intel and tanget as ELD is PW are ap (PWC2 by a Stage 1). Item         72         21-bac 23         19-Jun 23           CON10750         CON10750         Control CTG pin function (1/2nc, 60km, 1 tem = sute)         90         23-bac 23         10-Jun 23           CON10750         Control CTG pin function (1/2nc, 60km, 1 tem = sute)         90         23-bac 23         10-Jun 23           CON10750         (NCE222) Indement sweet (16:02222) alloced IS PWC3 to 4         05-Jun 23         24-Jun 23           CON10750         (NCE22) Indement sweet (16:02222) alloced IS PWC3 to 4         05-Jun 23         24-Jun 23           CON107501         (NCE23) Indement sweet (10:0222) alloced IS PWC3 to 4         05-Jun 23         24-Jun 23           CON107501         (CE57) FIRIGD TPMETCP Jac To 100/022 alloced IS PWC3 to 5         5         12-Jun 23         17-Jun 23           CON10751         CCE30 FIRID TPMETCP Jac To 100/022 alloced IS PWC3         60         16-Jun 23         20-Jun 24           CON10751         CCE30 FIRID TPMETCP Jac To 100/022 alloced IS PWC3         60         16-Jun 23         13-Jun 23           CON10751         CCE30 FIRID TPMETCP Jac To 100/022 alloced IS PWC3         60         16-Jun 23         13-Jun 23           CON10751         CCE30 FIRID TPMETCP Jac To 100/021 alloced IS PWC3         60         16-Jun 23         13-Jun 23<	CON126971	(CE579 / PMI507 / PMN579) JV prepare works submission for drainage divers	18	14-Mar-23 A	03-Apr-23	
CON107006         (NICE 210) Indument worther (D162022) Induction RVIC2 acc         9         23-Mar-23         01-Mar-23           CON10300         Control CD Serity forwards (Crose Sith). Lam * reluty)         00         23-Mar-23         01-Mar-23           CON10300         Control CD Serity forwards (Crose Sith). Lam * reluty)         28         31-Mar-23         01-Mar-23           CON103001         (NE222) Indemit variable (FLIPCD). S2m, (Trink)         14         01-Ag-23         24-Ag-23           CON103075         (CR57) FM607 (FMAR7) PMar-96 Accounties worth subristem for 1         16         01-Ag-23         27-Ag-23           CON103076         (CR522) Indemit variable (FLIPCD). S2m, (Trink)         16         04-Ag-23         25-Ag-23         07-Ag-23           CON103051         Construct WW and (RWC2 Step 18 JBP 2)         00         18-Ag-23         07-Ag-23         07-Ag-23           CON103051         Construct WW and (RWC2 Step 18 JBP 2)         00         18-Ag-23         17-Ag-23         07-Ag-23           CON103051         Construct WW and (RWC2 Step 48 JB 94/1)         30         16-Ag-23         17-Ag-23         07-Ag-23           CON103051         Construct works (RVIC2 Ber 49 JB 94/1)         30         16-Ag-23         17-Ag-23         07-Ag-24           CON103052         Contrastot works (RVIC2 Ber 49 J	CON11492	Pre-drill works on CT6	0	21-Mar-23	21-Mar-23	
CON107506         NDC210 () indexent vacating (216/2012) indicated INVC3 loss         0         23-Mar-23         01-Mar-23           CON10300         Childrig vacage dantage pap divestion (200x dism vacation)         28         31-Mar-23         08-Mar-23         08-Mar-23           CON10300         INC2220) incomer vacation (210/222) about for Vacation (200/222) about		Install sheet pile & ELS to RW pile cap (RWC2 type 3, stage 1), 1 team				
CONT1300         Construct (15 ping function (10ms of below 11mm - stup)         00         29-Mar32         20-Jak23           CONT1300         Extra general detailing below 11mm of the stamp of bording (10k22) stop 100202) stop 10k9 (10k9 (						<b>–</b>
CON10400         Exercing servage drange pipe drange tope drange (N2022 drander SVPC)         4         0-AA-23         0-AA-23           CON107501         InCE222 brandmit weather (N2022 D2 01/0222) affords FVVC3         4         0-AA-23         1-AA-23           CON107501         InCE232) inchannet weather (N100222 D2 01/0222) affords FVVC3         5         12-AA-23         17-AA-23           CON107501         CCR270 (FML071 / MARC71 (ADR272) affords FVVC3         5         11-AA-23         20-AA-24           CON107501         CCR270 (FML071 / MARC71 (ADR22) affords FVVC3         5         11-AA-23         20-AA-24           CON107501         CCR370 (FML071 / MARC71 (Darange drander words - meblazion         112         22-AA-23         13-AM-23           CON10540         CGR370 FML071 / MARC71 (Darange drander words - meblazion         120         22-AA-23         13-AM-23           CON10540         CGR370 FML071 / MARC71 (Darange drander words after 10         300         15-AM-23         13-AM-23           CON10540         CGR38 drand drander mane FE1-FE8 AFE1-FD dranders (fge1 1)         300         15-AM-23         13-AM-23           CON10540         Constatut drander gr49 45 Bay 89         100         15-AM-23         13-AM-23           CON10540         Constatut drander gr49 45 Bay 91         300         15-AM-23         13-AM-23					•	
CON107991         (NCE22) formative vertice (12 N222) to 2012022 if the construction (FE-10 h. 3m, fm)         14         04-Ap-23         24-Ap-23           CON107973         (ICE571 / FMG7 / PMG7 by PL revee X acceptance works submission for d         18         04-Ap-23         22-Ap-23           CON107976         (ICE571 / FMG7 / PMG7 by PL revee X acceptance works submission for d         18         04-Ap-23         22-Ap-23           CON107976         (ICE207) Construction (FE-PC10. 32m, fm2)         800         18-Ap-23         22-Ap-24           CON109751         (ICE371 / FMG7 / PMG7 PM revee X acceptance works - mobilation         12         22-Ap-23         17-Ap-23           CON109751         (ICE371 / FMG7 / PMG7 PM revee X acceptance works - mobilation         12         22-Ap-23         17-Ap-23           CON109751         (ICE37) Construction (FE-PC1b, S2m, Fm9)         86         22-Ap-23         17-Ap-23           CON109757         (ICE37) FMG7 / PMG7 PM revee X acceptance X						
CON11952         Instal here jak brig pie cap construction (FEL-PCIh, Str., hr.h)         14         0-4Ap-23         24Ap-23           CON12973         CCR571 (FMM07 (FMR197) Merriew X constructions with submitted in Str. 12Ap-23         17Ap-23         27Ap-23           CON10751         CCR571 (FMR07 (FMR197) Merriew X constructions WCR5 + S         17Ap-23         27Ap-23         17Ap-23           CON10751         CCR571 (FMR27) Detaining with encounted on EFL-PCIh 32n, thr.W)         56         12Ap-23         27Ap-23         17Ap-23           CON10751         CCR571 (FMR27) Detaining with encounted on EFL-PCIh 32n, thr.W)         56         28Ap-23         17Ap-23         27Ap-23           CON10575         CCR570 (FMR27) Detaining diversion works - mobization         12         28Ap-23         17Ap-23         27Ap-24           CON10572         Cu daps works (FWC2 bys 4 Ba y Bay 37)         60         04Mp-23         18Ap-23         20Ap-23         20Ap-23           CON11563         East y seves of an more FL-F-FA detain (stage 1)         30         15Mp-23         15Ap-23         20Ap-23           CON11564         Context Landragrund dramp (SC2 areat seve)         46         16Mp-23         17Ap-23           CON11565         East y seves of an more FL-F-FA detain (stage 1)         30         15Mp-23         15Ap-23           CON115						
CONTENTS         (CEST97 (HMS77) PLM releva & acceptance under submission ford         118         UE-40/23         28/40/23           CONTENTS         (CEST97 (HMS77) PLM relevance Market PL/100220 et Blm Statel H for on RN         50         1.7.40/23         229-Jun 23           CONTENTS         (CEST97) Careat depth maying encountered on RPI tweel to socket H for on RN         500         1.9.40/23         229-Jun 23           CONTENTS         (CEST97) Careat depth maying encountered on RPI tweel to socket H for on RN         500         1.9.40/23         229-Jun 23           CONTENTS         (CEST97 (PMS07) ThAnseq demension works - mobilisme         12         2.9.40/23         1.3.1.40/23           CONTENTS         (CEST97 (PMS07) ThAnseq demension works - mobilisme         100         0.0.9.40/y23         1.3.1.40/23           CONTENTS         CEST97 (PMS07) ThAnseq demension works - mobilisme         100         0.0.9.40/y23         1.3.1.40/23           CONTENTS         CEST97 (PMS07) ThAnseq demension works - mobilisme         100         1.9.40/y23         1.9.1.40/23           CONTENTS         CEST97 (PMS07) ThAnseq demension works - mobilisme         100         1.9.40/y23         1.9.1.40/23           CONTENTS         CEST97 (PMS07) ThAnseq demension works - mobilisme (PST)         30         1.9.40/y23         1.9.40/y23         1.9.40/y23           CONTEN	CON11552		14	•	•	
CONV07SM         (PCL222) Valuement washing (21/00202 to 2011/02022 to 2011/02022 adheads PRVC38         5         91,49,473         20,447-43           CONV07S1         (CCL222) Valuement washing (21/00202 to 2011/02022 to 2011/02022 do 2011/02022 to 2011/0202 do 2011/0202			18	· ·		
Convinción         Convinc				· ·	•	
Convinción         Convinc	CON10751		300	· · ·	•	
CON120075         (ICE570 PMIS07) FMMG70 Dinange deminic works - mobilization         12         29-Apr-23         13-May-23           CON12000         All grade works (RWC2 Bay 48 b Bay 47)         50         0.94May-23         13-Mar-23           CON12027         Cut stope works (RWC2 Bay 48 b Bay 47)         50         0.94May-23         13-Mar-23           CON12027         Cut stope works (RWC2 Bay 48 b Bay 47)         50         0.94May-23         13-Mar-23           CON15051         Existing storm dam ner FE1-F6 b & FE1-F2 b develom (stage 1)         30         15-May-23         13-Mar-23           CON15052         Construct underground drainage (RS2) resisting, bary 1         30         15-May-23         13-Mar-23           CON1754         Construct MRV pile on (RWC2 type 5 and step 1)         44         0.8-Jan-23         07-Ja-Z3           CON11503         Construct MRV pile on (RWC2 type 5 [bay 496])         48         14-Jan-23         13-Mar-23           CON11503         Construct MRV boling (RWC2 type 6 [bay 48 to bay 47)         24         0.8-Jan-23         13-Mar-23           CON11528         Construct All Storp (RWC2 bay 6 [bay 48 to bay 47)         24         0.8-Jan-23         13-Mar-23           CON11528         Construct RW boling (RWC2 bay 6 [bay 48 to bay 47)         24         0.9-Jan-23         13-Mar-23	CON10651	Construct RW wall (RWC2 type 1a [Bay 2])	60	18-Apr-23	29-Jun-23	
CON12400         A grade worke (KS27 est stell)         60         02 Alwy-23         13-Jul-23           CON10272         Cut stope worke (KWC2 Bay 48 bs (34)         60         09 Alwy-23         13-Jul-23           CON10274         Cut stope worke (KWC2 Bay 48 bs (45) 0 Bay 38)         60         09 Alwy-23         13-Jul-23           CON115661         Existing sewage drain near FE1-FBb & FE1-FTb descript (stage 1)         30         15-Key-23         11-Jul-23           CON12502         Construct Morground drainage (KS27 exist sko)         48         16-Key-23         17-Jul-23           CON12502         Construct Morground drainage (KS27 west sko)         48         16-Key-23         17-Jul-23           CON12502         Construct Morground drainage (KS27 west sko)         48         14-Jun-23         17-Jul-23           CON12502         Construct Morground drainage (KS27 west sko)         48         14-Jun-23         17-Jul-23           CON12502         Construct Morground drainage (KS27 west sko)         48         14-Jun-23         17-Jul-23           CON10305         Construct MV coing (RVC2 bys 6 Jbay 48) bu 47)         24         14-Jun-23         17-Jul-23           CON10305         Construct MV coing (RVC2 bys 6 Jbay 48) bu 47)         24         14-Jun-23         17-Jul-23           Con110305         <	CON11554	ELS works for pile cap construction (FE1-PC1b, 32m, 1m/d)	36	25-Apr-23	07-Jun-23	
CON10272         Cut slope works (RWC2 byel 4 Bay 450 Bay 30)         30         0.9 4May 23         13-Jun-23           CON10274         Cut slope works (RWC2 byel 4 Bay 450 Bay 30)         60         0.9 May 23         19-Jun-23           CON105561         Exating slow main near FE1-FB 0 & FE1-F7b diversion (stage 1)         30         15-May-23         19-Jun-23           CON105563         Exating slow main near FE1-FB 0 & FE1-F7b diversion (stage 1)         34         16-May-23         113-Jul-23           CON10754         Construct divergenound drainage (CZ 2 reast stage 1)         184         16-May-23         07-Jul-23           CON10754         Construct divergenound drainage (FE1-FPC 1b, 32m, 1m6, 1 learm)         24         0.8-Jun-23         0.7-Jul-23           CON10520         Construct JB cong (FWC2 bye 5 lay 46)         24         1.4-Jun-23         1.0-Jul-23           CON10520         Construct JB cong (FWC2 bye 6 lay 46 b bay 47)         24         1.4-Jun-23         1.0-Jul-23           CON10520         Construct JB cong (FWC2 bye 6 lay 46 b bay 47)         24         1.0-Jul-23         2.5-Jul-23           CON10520         Construct JB cong (FWC2 bye 6 lay 46 b bay 47)         24         1.0-Jul-23         1.2-Jul-23           CON10520         Darlange diversion works at CT         25         3.5-Jul-23         1.2-Jul-23 <td>CON126975</td> <td>(CE579 / PMI507 / PMN579) Drainage diversion works - mobilization</td> <td>12</td> <td>29-Apr-23</td> <td>13-May-23</td> <td></td>	CON126975	(CE579 / PMI507 / PMN579) Drainage diversion works - mobilization	12	29-Apr-23	13-May-23	
CON10274         Out sharing some works (RWC2 (ppe 4 Eapl 44 5b Eapl 39)         600         00 4 Map -23         20 Jus 23           CON115661         Existing some drain near FE1 FEB & FET-b diversion (stage 1)         30         15 Map -23         19 Jun -23           CON11562         Construct Wing bear / febra (KC2 (pps 3, stage 1), 11 man)         72         19 Map -23         11 Aug -23           CON12562         Construct Wing bear / febra (KC2 (pps 3, stage 1), 11 man)         72         19 Map -23         10 Jul -23           CON13560         Construct Wing bear / febra (KC2 (pps 4, stage 1), 11 man)         72         40 Aug -23         10 Jul -23           CON10561         Construct Wing bear / febra (KC2 (pps 4, stage 1), 11 man)         74         00 Aug -23         20 Jul -23           CON10540         Construct Wing (RWC2 type 5 [bay 48) bea (47)         24         14 Jul -23         10 Jul -23           CON10540         Construct RW boating (RWC2 type 6 [bay 48 bea (47)         24         10 Jul -23         12 Jul -23           CON10540         Distage diversion works at C16         C16 (RWC2 (pps 6 [bay -14 Bba -24)         12 Jul -23         12 Jul -23           CON10540         Distage at T1NE-BFG (Zen 7)         C44         20 Heb -23A         11 Jul -24         12 Jul -24           CON20070         Restate oxiting uitides works at Portion B	CON12490	At grade works (KS27 east side)	60	02-May-23	13-Jul-23	
CON115651         Existing storm drain near FE1-F60 & FE1-70 diversion (stage 1)         30         15-May-23         19-Jun-23           CON115663         Existing sewage drain near FE1-F60 & FE1-70 diversion (stage 1)         30         15-May-23         19-Jun-23           CON115563         Construct diverground drainage (KS2? exist side)         48         16-May-23         14-Aug-23           CON10754         Construct diversion (stage 1). 1team         72         19-May-23         07-Jul-23           CON11550         Construct way broding (FWC2 type 3, stage 1). 1team         72         48         14-Jun-23         07-Jul-23           CON11650         Construct Work for (FWC2 type 3, stage 1). 1team         72         44         40-Jun-23         07-Jul-23           CON11630         Construct Work for (FWC2 type 5 (bay 46))         48         14-Jun-23         10-Aug-23           CON11528         Drainage diversion works at CT6         30         20-Jun-23         28-Jul-23           Construct GW Vork Location 2 (RWC2)         253         30-Jul-23         12-Jul-23           ConN20707         Fil slope at 11M-84F67 (Core 7)         66         12-IeFeb-23 A         13-Jul-23           CON20707         Fil slope at 11M-84F67 (Core 7)         16         22-IeFeb-23 A         13-Jul-23           CON20050 <td>CON10272</td> <td>Cut slope works (RWC2 Bay 48 to Bay 47)</td> <td>30</td> <td>09-May-23</td> <td>13-Jun-23</td> <td></td>	CON10272	Cut slope works (RWC2 Bay 48 to Bay 47)	30	09-May-23	13-Jun-23	
CON15553         Existing sewage drain near FE1-FD6 &E1-FD7 diversion (stage 1)         30         15-May-23         19-Jun-23           CON12502         Construct MVRC2 bye 3, stage 1), 1 team         72         19-May-23         14-Aug-23           CON12502         Construct MVRC2 bye 3, stage 1), 1 team         72         19-May-23         14-Aug-23           CON12530         Construct MVRC2 bye 3, stage 1), 1 team         72         46-Bul-23         07-Jul-23           CON10560         Construct MVRC2 bye 5 [bay 46])         24         68-Jun-23         10-Aug-23           CON10510         Construct MVR boding (KWC2 bye 6 [bay 48]) bay 47])         24         14-Jun-23         13-Jul-23           CON10520         Drainage diversion works at CFG         30         20-Jun-23         12-Jul-23           CON10520         Drainage diversion works at CFG         30         20-Jun-23         12-Jul-23           CON20550A         Remaing works for Juncton at RWC3 C & B         42         20-Feb-23A         13-Jul-23           CON20550A         Reinstale existing unities works at Portion B (bay 1 bo bay 16)         12         21-Mar-23         28-Apr-23           CON20550A         Reinstale existing unities works at Portion B (bay 1 bo bay 16)         18         24-Apr-23         28-Apr-23           CON20170 <t< td=""><td>CON10274</td><td>Cut slope works (RWC2 type 4 Bay 45 to Bay 38)</td><td>60</td><td>09-May-23</td><td>20-Jul-23</td><td></td></t<>	CON10274	Cut slope works (RWC2 type 4 Bay 45 to Bay 38)	60	09-May-23	20-Jul-23	
CON12302         Construct Inderground drainage (K827 ape 3, stage 1), 1 team         49         16 May 23         113-Jul 23           CON10754         Construct RW pile cap / footing (RWC2 type 3, stage 1), 1 team         72         19 May 23         07-Jul 23           CON11030         Construct RWR plot cap / footing (RWC2 type 5 [bay 46])         24         08 Jul-23         07-Jul 23           CON11030         Construct RWR footing (RWC2 type 6 [bay 48] to bay 47])         24         14 Jul-23         13-Jul 23           CON11230         Construct RWR footing (RWC2 type 6 [bay 48] to bay 47])         24         14-Jul-23         126-Jul 23           CON11120         Construct RWR footing (RWC2 type 6 [bay 48] to bay 47])         24         14-Jul-23         126-Jul 23           CON11200         Construct RWR footing (RWC2 type 6 [bay 48] to bay 47])         24         14-Jul-23         126-Jul 23           CON11200         Construct RWR footing (RWC2 type 6 [bay 48] to bay 47]         24         126-Jul 23         126-Jul 23           CON11200         Construct RWR footing (RWC2 type 6 [bay 48] to bay 47]         24         126-Jul 23         126-Jul 23           CON20050         Reinsing works at Portion B (Bay 1 to bay 16)         12         21-Hair 23         13-Jul 23           CON20050         UBlities & drainage works at Portion B (bay 1 to bay 16)	CON115561	Existing storm drain near FE1- F6b & FE1-F7b diversion (stage 1)	30	15-May-23	19-Jun-23	
CON10754         Construct RW pile cap / holmg (RWC2 bye 3, stage 1), 1 team)         72         19-May-23         14-Jug-23           CON12330         Construct subway foding (KS27 wes, stage 1), 1 team)         24         08-Jun-23         07-Jul-23           CON1350         Construct BR C pie cap (FL-PC1b, 32m, rind, 1 team)         24         08-Jun-23         10-Jul-23           CON1350         Construct BN borbing (RWC2 bye 5 [bay 46])         44         14-Jun-23         10-Jul-23           CON1152         Construct BN borbing (RWC2 bye 6 [bay 48 to bay 47])         24         14-Jun-23         13-Jul-23           CON11528         Drainage diversion works LOT6         30         20-Jun-23         28-Jul-23           CON20550A         Remaining works for Junction at RWC3 C & B         42         20-Feb-23A         13-Jul-23           CON20550A         Remaining works for Junction at RWC3 C & B         42         20-Feb-23A         13-Jul-23           CON20550A         Remaining works for Junction at RWC3 C & B         42         20-Feb-23A         13-Jul-23           CON20550A         Remaining works at Portion B (bay 1 bay 16)         12         21-Mar-23         29-Mar-23           CON20550A         Utilies & drainage works at Portion B (bay 1 bay 16)         18         24-Jun-23         20-Jun-23           CON2	CON115563	Existing sewage drain near FE1- F6b & FE1-F7b diversion (stage 1)	30	15-May-23	19-Jun-23	
CON12330         Construct subway footing (KS27 west side, bay 1)         24         08-Jun-23         07-Jul-23           CON10300         Construct MB RC pie cap (FE1-PC1b, 32m, trind, 1 team)         24         08-Jun-23         07-Jul-23           CON10300         Construct MB RC pie cap (FE1-PC1b, 32m, trind, 1 team)         24         08-Jun-23         07-Jul-23           CON10120         Construct MW footing (KWC2 type 6 [bay 48] to bay 47])         24         14-Jun-23         10-Aug-23           CON11528         Drainage diversion works at CT6         30         20-Jun-23         26-Jul-23           Construct MW footing (KWC2 type 6 [bay 48] to bay 47])         24         14-Jun-23         110-Aug-23           Construct MW rokes In Slope C3 (Portion B)         143         20-Feb-23A         13-Jul-23           Conv20050A         Remaining works of purction at RWC3 C & B         42         20-Feb-23A         13-Amy-23           CON20990         Utilies & drainage works at Portion B (bay 1 to bay 16)         12         21-Mar-23         03-Apr-23           CON20170         Fabrication of NB steel post - along slope side         70         12-Apr-23         20-Mar-23           CON21050         Utilies & drainage works at Portion B (bay 1 to bay 16)         18         22-Mar-23         20-Mar-23           CON21070         F	CON12502	Construct underground drainage (KS27 east side)	48	16-May-23	13-Jul-23	1
CON111650         Construct NB RC pie cap (FE1-PC1b, 32m, 1mid, 1 team)         24         08-Jun-23         07-Jul-23           CON10300         Construct pie cap (RWC2 type 5 [bay 46])         48         14-Jun-23         13-Jul-23           CON10412         Construct RV footing (RWC2 type 5 [bay 48 bay 47])         24         14-Jun-23         13-Jul-23           CON11528         Drainage diversion works at CT6         30         20-Jun-23         26-Jul-23           Construct RWorks Location 2 (RW2)         C258         30-Aug-224         19-Sep 234           CON10451         Slope C3 (Porton B)         134         20-Feb-23A         13-Jul-23           CON20850A         Remaining works for junction at RWC3 C & B         42         20-Feb-23A         13-Jul-23           CON20850A         Remaining works at Porton B (bay 1 to bay 16)         16         21-Feb-23A         13-Jul-23           CON20950         Uillies & drainage works at Porton B (bay 1 to bay 16)         12         21-Mar-23         03-Apr-23           CON20170         Fabrication of NB steel post- along stope side         7         7         12-Jun-23         20-Jun-23           CON20170         Fabrication of NB steel post- along stope side         18         22-May-23         12-Jun-23           CON21070         Road works at Porton B (bay	CON10754	Construct RW pile cap / footing (RWC2 type 3, stage 1), 1 team	72	19-May-23	14-Aug-23	
CON10390         Construct påe cap (RWC2 type 5 (bay 46))         48         14-Jun-23         10-Aug-23           CON10412         Construct RW fooling (RWC2 type 6 (bay 48 to bay 47))         24         14-Jun-23         13-Jul-23           CON1052         Drainage diversion vorks at CT6         30         20-Jun-23         28-Jul-23           Construction Works In Slope C3 (Portion B)         143         20-Feb-23A         19-Sep-23           CoN20050A         Remaining works for junction at RWC3 C & B         42         20-Feb-23A         13-Apr-23           CON20707         Fill slope at 11NE-B/F66 (2no 7)         66         21-Feb-23A         13-Apr-23           CON20992A         Reinstate existing uitlies works at Portion B (bay 1 to bay 16)         12         21-Mar-23         29-Mar-23           CON20170         Fill slope at 11NE-B/F66 (2no 7)         18         48         04-Apr-23         29-Mar-23           CON20190         Uitties & drainage works at Portion B (bay 1 to bay 16)         12         21-Mar-23         20-Jun-23           CON20170         Fabrication of NB steel post - atong slope side         70         12-Apr-23         20-Jun-23           CON20170         Fabrication of NB steel post - atong slope side         70         12-Apr-23         12-Jun-23           CON20170         Fabrica	CON12330	Construct subway footing (KS27 west side, bay 1)	24	08-Jun-23	07-Jul-23	
CON10412         Construct RW footing (RWC2 type 6 [bay 48 to bay 47])         24         14-Jun-23         13-Jul-23           CON11526         Drainage diversion works at CT6         30         20-Jun-23         25-Jul-23           Road Improvement Works LOCTION 2 (RWC2)         253         30-Aug 22A         19-Snp-23           Construction Works in Slope C3 (Portion B)         Remaining works for junction at RWC3 C & B         42         20-Feb-23A         13-Aug-23           CON20050A         Remaining works for junction at RWC3 C & B         42         20-Feb-23A         13-May-23           CON20070         Fil slope at 11NE-BFF56 (Zone 7)         66         21-Feb-23A         13-May-23           CON20990         Uiltites & drainage works at Portion B (bay 1 to bay 16)         12         21-Mar-23         29-May-23           CON20101         Uiltites & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         20-Jun-23           CON20170         Fabrication r/NB steel post - along slope side         70         12-Apr-23         20-Jun-23           CON20170         Uiltites & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         20-Jun-23           CON20170         Uiltites & drainage works at Portion B (bay 14 to bay 16)         18         22-May-23         12-Jun-23	CON11650	Construct NB RC pile cap (FE1-PC1b, 32m, 1m/d, 1 team)	24	08-Jun-23	07-Jul-23	
CON11528         Drainage diversion works at CT6         30         20-Jun-23         26-Jul-23           Stad Improvement Works Location 2 (RW2)         253         30-Aug-22A         19-Sep-23           Construction Works in Slope C3 (Portion B)         143         20-Feb-23A         13-Jul-23           CON20500A         Remaining works for junction at RWC3 C & B         42         20-Feb-23A         13-Jul-23           CON205070         Fil slope at 11NE-B/F56 (Zon 7)         66         21-Feb-23A         13-May-23           CON209090         Utilies & drainage works at Portion B (bay 1 to bay 16)         12         21-Mar-23         29-Apr-23           CON21010         Utilies & drainage works at Portion B (bay 3 to bay 8)         18         04-Apr-23         29-Apr-23           CON21010         Utilies & drainage works at Portion B (bay 1 to bay 16)         18         29-Apr-23         20-Jul-23           CON21050         Utilies & drainage works at Portion B (bay 1 to bay 16)         18         29-Apr-23         12-Jul-23           CON21050         Utilies & drainage works at Portion B (bay 1 to bay 16)         18         22-Amy-23         12-Jul-23           CON21070         Road works at Portion B (bay 1 to bay 16)         14         13-Jul-23         12-Jul-23           CON21070         Road works at Portion B (bay 1 to	CON10390	Construct pile cap (RWC2 type 5 [bay 46])	48	14-Jun-23	10-Aug-23	
Accord Improvement Works Location 2 (RIW2)         253         30-Aug-22A         19-Sep-23           Construction Works in Slope C3 (Portion B)         143         20-Feb-23A         12-Jul-23           CON20350A         Remaining works for Junction at RWC3 C & B         42         20-Feb-23A         13-Apr-23           CON20700         Fil sope at 11NE-BF56 (Zone 7)         66         21-Feb-23A         13-Apr-23           CON20990         Utilities & drainage works at Portion B (bay 1 to bay 16)         12         21-Mar-23         03-Apr-23           CON21010         Utilities & drainage works at Portion B (bay 3 to bay 3)         42         04-Apr-23         29-May-23           CON21010         Utilities & drainage works at Portion B (bay 1 to bay 16)         18         04-Apr-23         20-Jun-23           CON21030         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         20-Jun-23           CON21050         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         22-Apr-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         18         22-Amy-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jun-23           CON21070         Road works at P	CON10412	Construct RW footing (RWC2 type 6 [bay 48 to bay 47])	24	14-Jun-23	13-Jul-23	
Construction Works in Slope C3 (Portion B)         143         20-Feb-23A         12-Jul-23           C0N20850A         Remaining works for junction at RWC3 C & B         42         20-Feb-23A         13-Apr-23           C0N20950A         Reinstaing works for junction at RWC3 C & B         42         20-Feb-23A         13-May-23           C0N20950A         Reinstale existing utilise works at Portion B (bay 1 to bay 16)         12         21-Mar-23         29-May-23           C0N20950         Utilities & drainage works at Portion B (bay 3 to bay 8)         18         04-Apr-23         28-Apr-23           C0N21010         Utilities & drainage works at Portion B (bay 1 to bay 16)         18         29-May-23         20-Una-23           C0N21030         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         20-Una-23           C0N2050         Utilities & drainage works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           C0N2070         Read works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           C0N2070         Read works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           C0N21070         Read works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jun-23 <td< td=""><td>CON11528</td><td>Drainage diversion works at CT6</td><td>30</td><td></td><td>26-Jul-23</td><td></td></td<>	CON11528	Drainage diversion works at CT6	30		26-Jul-23	
CON20850A         Remaining works for junction at RWC3 C & B         42         20-Feb-23 A         13-Apr-23           CON20970         Fil slope at 11NE-B/F56 (Zone 7)         66         21-Feb-23 A         13-May-23           CON20992A         Refistate existing utilities works at Portion B (bay 1 to bay 16)         12         21-Mar-23         03-Apr-23           CON20990         Utilities & drainage works at Portion B (bay 1 to bay 16)         12         21-Mar-23         29-May-23           CON21010         Utilities & drainage works at Portion B (bay 1 to bay 6)         18         04-Apr-23         20-May-23           CON21070         Fabrication of NB steel post - along slope side         70         12-Apr-23         20-May-23           CON21030         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         12-Jun-23           CON21050         Utilities & drainage works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to Bay21 (95nos, 2d/no.1 team + s         200         30-Aug-22A	oad Improvement Works L	ocation 2 (RIW2)	253	30-Aug-22 A	19-Sep-23	
CON20770         Fill slope at 11NE-B/F56 (Zone 7)         66         21-Feb-23A         13-May-23           CON20992A         Reinstate existing utilities works at Portion B (bay 1 to bay 16)         12         21-Mar-23         03-Apr-23           CON20990         Utitites & drainage works at Portion B (bay 3 to bay 13)         42         04-Apr-23         29-May-23           CON21010         Utitities & drainage works at Portion B (bay 3 to bay 3)         42         04-Apr-23         29-May-23           CON21010         Fabrication of NB steel post - along slope side         70         12-Apr-23         20-Jun-23           CON21030         Utitities & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         20-Jun-23           CON21050         Utitities & drainage works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jul-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jul-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         30-Aug-22A         19-Sep-23	Construction Works in Slope	a C3 (Portion B)	143	20-Feb-23 A	12-Jul-23	
CON20992A         Reinstate existing utilities works at Portion B (bay 1 to bay 16)         12         21-Mar-23         03-Apr-23           CON20990         Utilities & drainage works at Portion B (bay 9 to bay 13)         42         04-Apr-23         29-May-23           CON21010         Utilities & drainage works at Portion B (bay 3 to bay 8)         18         04-Apr-23         28-Apr-23           CON21070         Fabrication of NB steel post - along slope side         70         12-Apr-23         20-Jun-23           CON21030         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         20-Jun-23           CON20500         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         22-May-23         12-Jun-23           CON20774A         Soil nai works at RV3b (remaining area)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 2)         203         30-Aug-22A         19-Sep-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 2)         203         30-Aug-22A         19-Sep-23           CON21968         (NCE208) Construct pling fint SE2 Bay13 to Bay21 (95nos, 2dmo. 1 team + s         200         30-Aug-22A </td <td>CON20850A</td> <td>Remaining works for junction at RWC3 C &amp; B</td> <td>42</td> <td>20-Feb-23 A</td> <td>13-Apr-23</td> <td></td>	CON20850A	Remaining works for junction at RWC3 C & B	42	20-Feb-23 A	13-Apr-23	
CON20990         Utilities & drainage works at Portion B (bay 9 to bay 13)         42         04-Apr-23         29-May-23           CON21010         Utilities & drainage works at Portion B (bay 3 to bay 8)         18         04-Apr-23         28-Apr-23           CON21070         Fabrication of NB steel post - along slope side         70         12-Apr-23         20-Jun-23           CON21030         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         29-May-23         12-Jun-23           CON21050         Utilities & drainage works at Portion B (bay 14 to bay 16)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         203         30-Aug-22A         19-Sep-23           CON21960         Excavate & instal Itaral support (SE2 Bay4 to Bay12; L=110m)         125         25-Nov-22A         30-May-23           CON21970         KNCE208) Construct pling fdm SE2 Bay13 to Bay21)         24         08-Mar-23A         21-Apr-23 </td <td>CON20770</td> <td>Fill slope at 11NE-B/F56 (Zone 7)</td> <td></td> <td>21-Feb-23 A</td> <td>13-May-23</td> <td></td>	CON20770	Fill slope at 11NE-B/F56 (Zone 7)		21-Feb-23 A	13-May-23	
CON21010         Utilities & drainage works at Portion B (bay 3 to bay 8)         18         04-Apr-23         28-Apr-23           CON20170         Fabrication of NB steel post - along slope side         70         12-Apr-23         20-Jun-23           CON21030         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         20-Jun-23           CON21050         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         22-May-23         12-Jun-23           CON20774A         Soil nail works at RW3b (remaining area)         18         22-May-23         12-Jun-23           CON2070         Road works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           CON2070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jun-23           CON21070         Road works at Portion C)         203         30-Aug-22A         19-Sep-23           CON21968         (NCE280) Construct pling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 tean + s         200         30-Aug-22A         19-Sep-23           CON21690         Exavate & install lateral support (SE2 Bay4 to Bay12; L=110m)         125         25-Nov-22A         30-May-23           CON2170         (NCE237) ICE cert on mini-pile design review         24         06-Feb-23A         21-Apr-23	CON20992A	Reinstate existing utilities works at Portion B (bay 1 to bay 16)	12	21-Mar-23	03-Apr-23	
CON20170         Fabrication of NB steel post - along slope side         70         12-Apr-23         20-Jun-23           CON21030         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         20-May-23           CON21050         Utilities & drainage works at Portion B (bay 1 to bay 16)         18         22-May-23         12-Jun-23           CON20774A         Soil nail works at RW3b (remaining area)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 2)         203         30-Aug-22A         19-Sep-23           CON21068         (NCE208) Construct piling fdn SE2 Bay14 to Bay12; L=110m)         125         25-Nov-22A         30-May-23           CON21770         ELS works & UU hanging (Bay13 to Bay21)         24         06-Feb-23A         21-Apr-23           CON22770         (NCE237) ICE cert on mini-pile design review         64         08-Mar-23A         04-Apr-23           CON227	CON20990	Utilities & drainage works at Portion B (bay 9 to bay 13)	42	04-Apr-23		
CON21030         Utilities & drainage works at Portion B (bay 1 to bay 2)         18         29-Apr-23         20-May-23           CON21050         Utilities & drainage works at Portion B (bay 14 to bay 16)         18         22-May-23         12-Jun-23           CON20774A         Soil nail works at RW3b (remaining area)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jul-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jul-23           CON21968         (NCE208) Construct piling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 team + s         200         30-Aug-22 A         19-Sep-23           CON21970         Excavate & install lateral support (SE2 Bay4 to Bay12; L=110m)         125         25-Nov-22 A         30-May-23           CON21970         ELS works & UU hanging (Bay13 to Bay21)         24         06-Feb-23 A         21-Apr-23           CON22770         (NCE237) ICE cert on mini-pile design review         24         08-Mar-23 A         04-Apr-23           CON22790         (NCE237) Prepare ELS design review         60         08-Mar-23 A         19-May-23           CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23 <td>CON21010</td> <td>Utilities &amp; drainage works at Portion B (bay 3 to bay 8)</td> <td>18</td> <td>04-Apr-23</td> <td>28-Apr-23</td> <td></td>	CON21010	Utilities & drainage works at Portion B (bay 3 to bay 8)	18	04-Apr-23	28-Apr-23	
CON21050         Utilities & drainage works at Portion B (bay 14 to bay 16)         18         22-May-23         12-Jun-23           CON20774A         Soil nail works at RW3b (remaining area)         18         22-May-23         12-Jun-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jul-23           CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jul-23           CON21070         Road works at Portion B (bay 1 to bay 16)         203         30-Aug-22A         19-Sep-23           CON21968         (NCE208) Construct piling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 team + s         200         30-Aug-22A         19-Sep-23           CON21690         Excavate & install lateral support (SE2 Bay4 to Bay12; L=110m)         125         25-Nov-22A         30-May-23           CON21970         ELS works & UU hanging (Bay13 to Bay21)         24         06-Feb-23A         21-Apr-23           CON22770         (NCE237) ICE cert on mini-pile design review         24         08-Mar-23A         04-Apr-23           CON22790         (NCE237) Prepare ELS design review         60         08-Mar-23A         19-May-23           CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23 <td>CON20170</td> <td>Fabrication of NB steel post - along slope side</td> <td>70</td> <td>12-Apr-23</td> <td>20-Jun-23</td> <td></td>	CON20170	Fabrication of NB steel post - along slope side	70	12-Apr-23	20-Jun-23	
CON20774A       Soil nail works at RW3b (remaining area)       18       22-May-23       12-Jun-23         CON21070       Road works at Portion B (bay 1 to bay 16)       24       13-Jun-23       12-Jul-23         Construction Noise Semi-Enclosure SE2 (Portion C)       203       30-Aug-22A       19-Sep-23         CON21060       (NCE208) Construct piling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 team + s       200       30-Aug-22A       19-Sep-23         CON21690       Excavate & instal lateral support (SE2 Bay4 to Bay12; L=110m)       125       25-Nov-22A       30-May-23         CON21970       ELS works & UU hanging (Bay13 to Bay21)       24       06-Feb-23A       21-Apr-23         CON22770       (NCE237) ICE cert on mini-pile design review       24       08-Mar-23A       04-Apr-23         CON22790       (NCE237) Prepare ELS design review       60       08-Mar-23A       19-May-23         CON21778       Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)       27       21-Mar-23       25-Apr-23	CON21030	Utilities & drainage works at Portion B (bay 1 to bay 2)	18	29-Apr-23	20-May-23	
CON21070         Road works at Portion B (bay 1 to bay 16)         24         13-Jun-23         12-Jul-23           Construction Noise Semi-Enclosure SE2 (Portion C)         203         30-Aug-22A         19-Sep-23           CON21968         (NCE208) Construct piling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 team + s         200         30-Aug-22A         19-Sep-23           CON21690         Excavate & install lateral support (SE2 Bay4 to Bay12; L=110m)         125         25-Nov-22A         30-May-23           CON21970         ELS works & UU hanging (Bay13 to Bay21)         24         06-Feb-23A         21-Apr-23         21-Apr-23           CON22770         (NCE237) ICE cert on min-pile design review         24         08-Mar-23A         04-Apr-23         04-Apr-23           CON22790         (NCE237) Prepare ELS design review         60         08-Mar-23A         19-May-23         19-May-23           CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23         25-Apr-23	CON21050	Utilities & drainage works at Portion B (bay 14 to bay 16)	18	22-May-23	12-Jun-23	
Construction Noise Semi-Enclosure SE2 (Portion C)         203         30-Aug-22 A         19-Sep-23           CON21968         (NCE208) Construct piling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 team + s         200         30-Aug-22 A         19-Sep-23           CON21690         Excavate & install lateral support (SE2 Bay4 to Bay12; L=110m)         125         25-Nov-22 A         30-May-23           CON21970         ELS works & UU hanging (Bay13 to Bay21)         24         06-Feb-23 A         21-Apr-23           CON22770         (NCE237) ICE cert on mini-pile design review         24         08-Mar-23 A         04-Apr-23           CON22790         (NCE237) Prepare ELS design review         60         08-Mar-23 A         19-May-23           CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23	CON20774A	Soil nail works at RW3b (remaining area)	18	22-May-23	12-Jun-23	
CON21968         (NCE208) Construct piling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 team + s         200         30-Aug-22 A         19-Sep-23           CON21690         Excavate & instal lateral support (SE2 Bay4 to Bay12; L=110m)         125         25-Nov-22 A         30-May-23           CON21970         ELS works & UU hanging (Bay13 to Bay21)         24         06-Feb-23 A         21-Apr-23           CON22770         (NCE237) ICE cert on mini-pile design review         24         08-Mar-23 A         04-Apr-23           CON22790         (NCE237) Prepare ELS design review         60         08-Mar-23 A         19-May-23           CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23	CON21070	Road works at Portion B (bay 1 to bay 16)	24	13-Jun-23	12-Jul-23	
CON21968       (NCE208) Construct piling fdn SE2 Bay13 to Bay21 (95nos, 2d/no. 1 team + s       200       30-Aug-22 A       19-Sep-23         CON21690       Excavate & install lateral support (SE2 Bay4 to Bay12; L=110m)       125       25-Nov-22 A       30-May-23         CON21970       ELS works & UU hanging (Bay13 to Bay21)       24       06-Feb-23 A       21-Apr-23         CON22770       (NCE237) ICE cert on mini-pile design review       24       08-Mar-23 A       04-Apr-23         CON22790       (NCE237) Prepare ELS design review       60       08-Mar-23 A       19-May-23         CON21778       Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)       27       21-Mar-23       25-Apr-23	Construction Noise Semi-En	closure SE2 (Portion C)	203	30-Aug-22 A	19-Sep-23	
CON21690         Excavate & install lateral support (SE2 Bay4 to Bay12; L=110m)         125         25-Nov-22 A         30-May-23           CON21970         ELS works & UU hanging (Bay13 to Bay21)         24         06-Feb-23 A         21-Apr-23           CON22770         (NCE237) ICE cert on mini-pile design review         24         08-Mar-23 A         04-Apr-23           CON22790         (NCE237) Prepare ELS design review         60         08-Mar-23 A         19-May-23           CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23			200	30-Aug-22 A	19-Sep-23	
CON21970         ELS works & UU hanging (Bay13 to Bay21)         24         06-Feb-23 A         21-Apr-23           CON22770         (NCE237) ICE cert on mini-pile design review         24         08-Mar-23 A         04-Apr-23           CON22790         (NCE237) Prepare ELS design review         60         08-Mar-23 A         19-May-23           CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23	CON21690	Excavate & install lateral support (SE2 Bay4 to Bay12; L=110m)	125	-	30-May-23	
CON22770         (NCE237) ICE cert on mini-pile design review         24         08-Mar-23 A         04-Apr-23           CON22790         (NCE237) Prepare ELS design review         60         08-Mar-23 A         19-May-23           CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23	CON21970	ELS works & UU hanging (Bay13 to Bay21)		06-Feb-23 A	21-Apr-23	
CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23	CON22770		24	08-Mar-23 A	04-Apr-23	
CON21778         Construct NB pile cap (CT4 Bay1 to Bay3; L=30m)         27         21-Mar-23         25-Apr-23					•	
	CON21778			21-Mar-23		
		Construct NB pile cap (SE2 Bay4 to Bay12; L=110m)	48	17-Apr-23	13-Jun-23	



)	Activity Name	Duration	Start	Finish	Apr 2023
00104700		40	00.4== 02	45 hus 00	64 65
CON21780 CON21730	Construct NB RC L-shaped wall (CT4 Bay1 to Bay3; L=30m)	42 48	26-Apr-23	15-Jun-23 06-Jul-23	
CON21730 CON22810	Construct NB RC L-shaped wall (SE2 Bay4 to Bay12; L=110m) (NCE237) ICE cert on ELS design review	40 24	09-May-23 20-May-23	17-Jun-23	
CON22810	(NCE237) Prepare retianing wall RC design review	60	20-May-23	01-Aug-23	_
		1373	19-Jul-21 A	12-Sep-25	
oad Improvement Works L	ocation 5 (Rives)			•	
Construction Works		1373	19-Jul-21 A	12-Sep-25	
CON31130	Cut slope works (CH115 to CH200) (L=85m, 13007m3, 10m3/d)	1300	19-Jul-21 A	12-Sep-25	
CON30170	Slope works & fill no-fine concrete at slope D1 (Level 1/4, 400m3)	72	19-Aug-21 A	28-Apr-23	
CON31212	Rock slope mapping (Stage 2)	180	03-Oct-22 A	03-Jun-23	
CON31170	Soil nail works (11NE-D/F246, stage 2)	150	21-Oct-22 A	09-May-23	
CON31530	Cut slope, Construct trial nails (2nos 10m depth, 3.5d/no) (Slope D4)	60	06-Dec-22 A	12-Apr-23	
CON31710	Construct footing, pier & pier head F1-4	144	20-Dec-22 A	29-Aug-23	
CON30490	Drainage & utilities works (bay 8 to bay 14)	42	18-Jan-23 A	12-Apr-23	
CON31214	PM review & acceptance and slope stabilization measures (Stage 2)	180	20-Jan-23 A	25-Sep-23	
CON32432	Backfilling to watermain's level (NB SE1 Bay1 to Bay6)	102	01-Feb-23A	20-Jun-23	
CON32436	Backfilling to watermain's level (NB SE1 Bay7 to Bay9)	36	21-Feb-23 A	28-Apr-23	
CON32790	Drainage & utilities works (RWD2 remaining)	42	21-Feb-23 A	06-May-23	
CON30430	Construct pile cap (Bay 14b)	12	21-Mar-23	03-Apr-23	
CON30394	Backfill RWD1 (bay6 to bay10)	48	21-Mar-23	20-May-23	
CON30430A	Plate load test (Bay 15 to Bay 16)	12	04-Apr-23	21-Apr-23	
CON30396	Gasmain laying (by Towngas)	36	04-Apr-23	20-May-23	
CON30530	Drainage & utilities works (bay 1 to bay 7)	42	13-Apr-23	02-Jun-23	
CON31550	Construct soil nails (55nos 10m depth, 3.5d/no, 3 teams) (Slope D4)	60	13-Apr-23	24-Jun-23	
CON30430B	Construct RC stem wall (Bay 14a to Bay 14b)	24	22-Apr-23	20-May-23	
CON30190	Excavation, find-out rock-head & ELS works (Level 1/4)	102	29-Apr-23	30-Aug-23	
CON30662	Lay twin DN600 watermain at SE1 Bay7 - Bay9 (FW CH140 to CH170)	18	29-Apr-23	20-May-23	
CON32810	Road works (RWD2 remaining)	42	08-May-23	27-Jun-23	
CON31290	Reinstatment works & fill no-fine concrete works	90	10-May-23	25-Aug-23	
CON31190	Erect working platform for soil nail works (Slope D3, stage 2)	42	10-May-23	29-Jun-23	
CON31570	Utilities works & drainage works (Slope D4)	60	19-May-23	31-Jul-23	
CON30510	Road works (bay 8 to bay 14)	42	22-May-23	12-Jul-23	
CON30430C	Construct RC footing (Bay 15 to Bay 16)	18	22-May-23	12-Jun-23	
CON30450	Construct RC stem wall (Bay 15 to Bay 16)	12	13-Jun-23	27-Jun-23	
edestrian Connectivity Faci	lity (PC-E11)	365	21-Mar-23	19-Mar-24	
Vorks Under Section 6A		365	21-Mar-23	19-Mar-24	
CON43030	Establishment Works for Landscape Softworks in Section 6 (Portion E and FII)	365	21-Mar-23	19-Mar-24	
edestrian Connectivity Faci	lity (PC-E8)	562	26-Oct-22 A	04-Jun-24	
Construction Works		157	26-Oct-22 A	05-Jun-23	
CON43610	Design review by ArchSD / LCSD	36	26-Oct-22 A	03-Apr-23	
CON43570	(NCE218) Reinstatement of planter wall, U-channel & surface run-off (lower pc	24	04-Apr-23	06-May-23	
CON43630	Demolish existing planter and re-construct new planter	36	04-Apr-23	20-May-23	
CON43650	Lay watermain for new water point	24	04-Apr-23	06-May-23	
CON43670	Install new water point	24	08-May-23	05-Jun-23	
Vorks Under Section 7A		365	06-Jun-23	04-Jun-24	
CON41970	Establishment Works for Landscape Softworks in Section 7 (Portion G)	365	06-Jun-23	04-Jun-24	
		620	17-Nov-22 A	16-May-24	
edestrian Connectivity Faci				-	
Construction Works		205	17-Nov-22 A	17-May-23	
CON50350	ABWF works (footbridge)	24	17-Nov-22 A	03-Apr-23	
CON50450	T&C to lift, submit LE5 and EMSD inspection (4nos lift) _SYA	24	03-Dec-22A	25-Apr-23	
CON50310D	(NCE241) Additional works due to E&M civil requirement	51	10-Jan-23 A	14-Apr-23	
CON50498	Remaining E&M works (Open area for lift tower & staircase)	43	28-Jan-23 A	20-Apr-23	
CON50496D	(NCE242) Install cable (by HKT)	6	18-Feb-23 A	24-Mar-23	
CON50530	T&C and Statutory Inspection _SYA	18	26-Apr-23	17-May-23	
Construction Works in Section	on 8A	365	18-May-23	16-May-24	
CON50550	Establishment Works for Landscape Softworks in Section 8 (Portion H and I)	365	18-May-23	16-May-24	
edestrian Connectivity Faci	lity System B (SYB)	375	16-May-22 A	17-Aug-23	
Construction Works		375	16-May-22 A	17-Aug-23	
CON53330	PM review & accept design for additional temporary road near PC3	90	16-May-22 A	28-Apr-23	
	Construct pier SYB-P4 pier head	54	19-Dec-22 A	26-Apr-23	
			19-Dec-22 A	26-Apr-23	
CON51932	Construct pier SYB-P3 pier head	54			
CON51932	Construct pier SYB-P3 pier head	54	19-Dec-22 A	20-7 (p)-20	
CON51932 CON52112			]		Quarry Site Investigation Design & Construction
	<u>NE/2</u>	017/03 Dev	velopment of A	nderson Road	Quarry Site - Investigation Design & Construction ment Works & Pedestrian Connectivity Facilities Works Phase



Activity ID	Activity Name	Duration	Start	Finish	2023	
					Apr	May
001/50450	Oranteutaire OVP DE aire based	20	40 Day 00 A	07 4	64	65
CON52152	Construct pier SYB-P5 pier head	36	19-Dec-22 A	27-Apr-23		
CON52170C	(NCE210) Inclement weather (21/7/2022 to 20/8/2022) on SYB-LT1	17	20-Jan-23 A	12-Apr-23		
CON52170D	(NCE216) Inclement weather (21/8/2022 to 20/9/2022) on SYB-LT1	9	13-Apr-23	22-Apr-23		
CON52170E	(NCE222) Inclement weather (21/9/2022 to 20/10/2022) on SYB-LT1	4	24-Apr-23	27-Apr-23		
CON52530	Construct escalator pit P4 to P7	48	27-Apr-23	24-Jun-23		
CON51952	Construct pier SYB-P6 pier head	36	27-Apr-23	09-Jun-23		
CON52170F	(NCE232) Inclement weather (21/10/2022 to 20/11/2022) on SYB-LT1	5	28-Apr-23	04-May-23		
CON53350	Mobilisation & set up	7	29-Apr-23	08-May-23		
CON53230	Application for power supply & energization (SYB)	90	02-May-23	17-Aug-23		
CON52171	Construct superstructure SYB-LT1 (2nd part, excluding part of support to esca	78	05-May-23	07-Aug-23		
CON53370	Cut-slope works & installation of temporary soil nail	36	09-May-23	20-Jun-23		

Actual Work

Remaining Work

♦ ♦ Milestone

NE/2017/03 Development of Anderson Road Quarry Site - Investigation Design & Construction Development of Anderson Road Quarry Site Road - Improvement Works & Pedestrian Connectivity Facilities Works Phase 2A 3-Month Rolling Programme



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