SERVICE CONTRACT NO: EDO/03/2025

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

UNDER ENVIRONMENTAL PERMIT NO. EP-513/2016

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

MARCH 2026

CLIENTS:

Civil Engineering and Development Department

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Environmental Team Leader

DATE:
14 April 2026

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Our Ref. : TEEM/1040/26/L/056/JYT
Job No. : TM1040-25
Date : 14 April 2026

By Email

Civil Engineering and Development Department
8/F, South Tower, West Kowloon Government Offices
11 Hoi Ting Road
Yau Ma Tei, Kowloon

Attn.: Mr. Lee Ming Keung, Marco (Ch Engr/ E2, EDO, CEDD)

Dear Sir,

Agreement No. EDO 5/2025
Development of Anderson Road Quarry Site – Road Improvement Works (Phase 2)
Independent Environmental Checker
Verification for Monthly EM&A Report (March 2026)

With reference to the Monthly Environmental Monitoring and Audit (EM&A) Report – March 2026 (Issue 3) as submitted by the Environmental Team in April 2026, we are pleased to inform that we hereby verify the captioned submission in accordance with Condition 3.4 of the Environmental Permit No. EP-513/2016 for the Anderson Road Quarry Site – Road Improvement Works.

Should you have any queries, please do not hesitate to contact the undersigned at (852) 3610 8701 or our Mr. Michael Fong at (852) 3610 8706 or our Mr. Jacky Tsang at (852) 3610 8735.

Yours faithfully,

For and on behalf of
Telemax Environmental and Energy Management Limited

Ir Nelson Tam
Independent Environmental Checker (IEC)

c.c. Lam Environmental Services Limited (ET) - Attn: Mr. Raymond Dai / Ms. Eunice Chui

EM / NT / MF / JYT

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EXECUTIVE SUMMARY

i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report – March 2026 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 this is the 89th EM&A report presenting the environmental monitoring findings and information recorded during the period of 1 to 31 March 2026. 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)

- Reinstatement works at Slope C2 are in-progress.
- RC works at FE1 "a" side.
- ELS works at CT5.
- Erection of Noise barrier steel frame FE1.

Works in Road Improvement Works 2 (RIW2)

- ELS works at PC1 to PC4.
- RC works at PC1 to PC6.
- Reinstatement works at Slope C3 are in-progress.

Works in Road Improvement Works 3 (RIW3)

- Watermain works at F1-3 in progress.
- Rock excavation using drill & split method, drainage works and road works at Slope D3/ Lin Tak Road are in-progress.
- Installation of soil nail works, and slope works at Slope D4 are in-progress.
- Construction of RC bridge desk at pier Bridge F1-4 is in-progress.
- ELS works at Bridge F1 pier F1-1 & F1-2.
- ELS works at Bridge F1 Abutment A.

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 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 action or limit level exceedances 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 Stations AC1 during this reporting period as the station was dried out during the monitoring.

ix. 1 limit level exceedances was recorded in this reporting period.

Site Inspections and Audit

x. The Environmental Team (ET) conducted weekly site inspections during March 2026. 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 March 2026. 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

xii. No documented environmental complaint was received by the ET during the reporting month. The investigation summary for all the complaint cases were reported in the Complaint Log in in **Appendix 8.1**.

Reporting Changes

xiii. There are no changes to be reported.

Future Key Issues

xiv. 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 Requirement*****s** – 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 **C*ompliance 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.

Table 2.1 Schedule 2 Designated Projects under this Project

Item	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

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 ***Figure 2.2.*** Key personnel and contact particulars are summarized in ***Table 2.2***:

Table 2.2 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative	Senior Resident Engineer	Mr. Bob Lee	5506 0069	2473 3221
Chun Wo – China Metallurgical Group Corporation Joint Venture	Contractor	Site Agent	Ms. Suk Yin Cheung	6323 4716	3965 9854
		Deputy Environmental Officer	Ms. Diana Lee	9124 5619	
Telemax Environmental and Energy Management Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Ir Nelson Tam	3563 7003	3563 7018
Lam Environmental Services Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Ms. Eunice Chui	3765 0649	2882 3331

2.4 Construction Activities

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

- Reinstatement works at Slope C2 are in-progress.
- RC works at FE1 "a" side.
- ELS works at CT5.
- Erection of Noise barrier steel frame FE1.
- ELS works at PC1 to PC4.
- RC works at PC1 to PC6.
- Reinstatement works at Slope C3 are in-progress.
- Watermain works at F1-3 in progress.
- Rock excavation using drill & split method, drainage works and road works at Slope D3/ Lin Tak Road are in-progress.
- Installation of soil nail works, and slope works at Slope D4 are in-progress.
- Construction of RC bridge desk at pier Bridge F1-4 is in-progress.
- ELS works at Bridge F1 pier F1-1 & F1-2.
- ELS works at Bridge F1 Abutment A.

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 environmental protection 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	20 Jul 2016	N/A	Valid
Billing Account for Disposal				
Billing Account for Disposal of Construction Waste	7031075	20 Jun 2018	End of the Project	Valid
Chemical Waste Registration				
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 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
Water Discharge Licence				
Water Pollution Ordinance Licence for Clear Water Bay Road, Shun Lee Tsuen Road and San Lee Street	WT10003315-2024	3 Jul 2024	31 Jul 2029	Valid
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	WT10002686-2023	2 Apr 2024	31 Mar 2029	Valid
Water Pollution Ordinance Licence for Lin Tak Road to Sau Mau Ping Road including Tseung Kwan O Tunnel Toll Plaza	WT10002261-2023	30 Jan 2024	31 Jan 2029	Valid

Construction Noise Permit				
Bridge Erection at Tseung Kwan O Rd and Lin Tak Rd	GW-RE0141-26	1 Mar 2026	30 Jun 2026	Valid
Electricity supply to CCTV at Shun Tin Store	GW-RE1119-25	27 Sep 2025	26 Mar 2026	Expired
Electricity supply to CCTV at Shun Tin Store	GW-RE0271-26	27 Mar 2026	26 Sep 2026	Valid
Re-surfacing at Hiu Kwong Street near Sau Mau Ping Rd	GW-RE0160-26	25 Feb 2026	24 May 2026	Valid
Lighting and pumping at New Clear Water Bay Rd near Choi Wan Estate	GW-RE1120-25	28 Sep 2025	27 Mar 2026	Expired
Lighting and pumping at New Clear Water Bay Rd near Choi Wan Estate	GW-RE0272-26	28 Mar 2026	27 Sep 2026	Valid
Noise Barriers Installation at New Clear Water Bay Rd near Lee On Rd	GW-RE0204-26	13 Mar 2026	12 Sep 2026	Valid
Towngas pumping and PCW at Lin Tak Road and Tseung Kwan O Road	GW-RE1413-25	4 Dec 2025	3 Mar 2026	Expired
Saltwater main diversion at Sau Mau Ping Road and Lin Tak Road	GW-RE0062-26	7 Feb 2026	6 May 2026	Valid
Water Pumping at Pik Wan Rd near Lin Tak Rd	GW-RE0140-26	27 Feb 2026	26 Aug 2026	Valid
Rock Splitting at Lin Tak Road near Tseung Kwan O Road	GW-RE1589-25	12 Jan 2026	11 Apr 2026	Valid
Freshwater and Saltwater Connections at Lin Tak Road near Tseung Kwan O Road	GW-RE0057-26	23 Feb 2026	22 May 2026	Superseded
Freshwater and Saltwater Connections at Lin Tak Road near Tseung Kwan O Road	GW-RE0267-26	14 Mar 2026	13 Jun 2026	Valid
PCW at Lin Tak Rd, Sau Mau Ping Rd and Tseung Kwan O Rd	GW-RE0143-26	4 Mar 2026	3 Jul 2026	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

EP Condition	Submission	Date of Submission
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 2026)	12 March 2026
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 & 4.2***.

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	Nti XL2	A2A-15360-E0
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 ***Appendix 4.1***. Should non-compliance of the criteria occurs, action in accordance with the Event and Action Plan in **Appendix 6.1** shall be carried out.

4.1.11. An ad-hoc discussion after the SSEMC meeting on 10 October 2025 called by the RSS was held to discuss on contractor's query raised on the noise measurement to confirm exceedance under the Event and Action Plan (EAP) for Construction Noise. During the ad-hoc discussion, the contractor disagreed on timing/arrangement of repeat measurement under EAP of construction noise implemented by ET. IEC was consulted on the Validity Assessment of Exceedance and expressed that it would be more appropriate for the repeat measurement be undertaken during similar construction activities to confirm findings with respect to the EAP.

4.1.12. EAP for Construction Noise has been followed strictly by ET when exceedance recorded. Should any noise exceedance be recorded, RSS will be notified to confirm similar construction activities for ET to conduct repeated measurement according since the noise monitoring conducted on 15 October 2025 as per IEC's advice in the ad-hoc discussion on 10 October 2025.

Table 4.3 Action and Limit Level for Noise Monitoring

Monitoring Station	Action Level	Limit Level (dB(A))		
		0700-1900 hrs on normal weekdays	0700-2300 hrs on holidays (including Sundays); and 1900-2300 hrs on all days [2]	2300-0700 hrs of all days [2]
NMC01	When one documented complaint is received	65 / 70 [1]	60 / 65 / 70 [3]	45 / 50 / 55 [3]
NMC02		75		
NMC03		75		
NMC04		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 & 4.4***.

Table 4.4 Air Monitoring Station

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
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.
(i) 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.
(l) 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**.

Table 4.5 Air Quality Monitoring Equipment

Equipment	Brand and model	Series Number
Portable direct reading dust meter	Met One BT- 645	B17940 B17942 C15621 C15622 C15625 R22586 X19297 X19299
	Met One AEROCET 831	R14332 W15449 W16848 Y23153 Y23160

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 from Tate's Cairn and Tseung Kwan O HKO Automatic weather Stations were obtained for the 1-hr TSP monitoring periods and shown in ***Appendix 4.3***.

EVENT AND ACTION PLAN

4.2.9. The Action and Limit levels for construction air quality are defined in ***Table 4.6*** and ***Appendix 4.1***. The Event and Action Plan as shown in ***Appendix 6.1*** 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 at Additional Water Monitoring Stations AC2 and AC3 had been ceased from 8 September 2025 when EPD had no objection to the Proposal for Review of Additional Water Monitoring Stations and Cessation of Stations AC2 and AC3 for Water Quality Monitoring submitted the Environmental Team (ET) on 25 August 2025. Water quality monitoring would be carried out at Station E or AC1 when no water sample can be collected at Station E, as upstream control reference to impact station F.

4.3.2. Water quality monitoring was undertaken at 5 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 & 4.6***.

Table 4.7 Marine Water Quality Stations for Water Quality Monitoring

Inland Water	Stations	Description	Easting	Northing
Channelized streams across the Project site	E[1]	Upstream Control Station	841329	821753
	F	Downstream Impact Station	841469	821635
	AC1[1]	Upstream Reference Station	-	-
	AC2[2]	Upstream Reference Station	-	-
	AC3[2]	Upstream Reference Station	-	-
Ma Yau Tong Stream	H	Upstream Control Station	843008	819880
	I	Downstream Impact Station	842652	819573

Remark: [1] Water quality monitoring would be carried out at Station E or AC1 when no water sample can be collected at Station E

[2] Water quality monitoring at Additional Water Monitoring Stations AC2 and AC3 had been ceased from 8 September 2025

WATER QUALITY PARAMETERS, FREQUENCY AND DURATION

4.3.3. 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.

4.3.4. 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.

4.3.5. 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.

4.3.6. 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.

4.3.7. Replicate in-situ measurements should be carried out in each sampling event.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

Dissolved Oxygen and Temperature Measuring Equipment

4.3.8. 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

4.3.9. 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).

4.3.10. 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

4.3.11. 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

4.3.12. 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.

Salinity

4.3.13. 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

4.3.14. 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.

4.3.15. 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.

4.3.16. 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	YSI Professional Plus Multi Parameters	14E101065
Turbid meter	Xin Rui WGZ-3B	2202020

4.3.17. The calibration certificates of the water quality monitoring equipment are attached in ***Appendix 4.2***.

LABORATORY MEASUREMENT / ANALYSIS

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

EVENT AND ACTION PLAN

4.3.19. The Action and Limit levels for construction water quality are defined in ***Table 4.9*** and ***Appendix 4.1***. 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 ***Appendix 6.1*** shall be carried out.

Table 4.9 Action and Limit Level for Water Quality Monitoring

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

* 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 ***Figure 2.1*** and ***Figure 4.1 – 4.6*** respectively.

5.0.2 The environment monitoring schedules for reporting month and coming three months 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 ***Appendix 5.2***.

5.2. Air Monitoring Results

5.2.1 No action or limit level exceedance was recorded in this reporting month.

5.2.2 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 ***Appendix 5.3***.

5.3. Water Quality Monitoring Results

5.3.1 No water samples can be collected at Stations AC1 during this reporting period as the station was dried out during the monitoring.

5.3.2 1 limit level exceedances was recorded in this reporting period.

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 ***Appendix 5.4***.

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 ***Appendix 5.5***. 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)	0.000	0.000	0.000	1.542
Quantity (Project commencement to the end of last month)	0.000	13.679	30.189	121.275
Cumulative Quantity-to-Date	0.000	13.679	30.189	122.817
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)	0.000	0.000	0.000	0.000	0.091
Quantity (Project commencement to the end of last month)	0.090	2.739	25.434	0.197	4.669
Cumulative Quantity-to-Date	0.090	2.739	25.434	0.197	4.760
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 ***Appendix 6.2***.

6.1 Noise Monitoring.

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

6.2 Air Quality Monitoring

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

6.3 Water Quality Monitoring

6.3.1 1 limit level exceedance was recorded in this reporting period. The details of the exceedance is presented in ***Appendix 6.2***.

6.4 Review of the Reasons for and the Implications of Non-compliance

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

6.5 Summary of follow-up action on non-compliance

6.5.1 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 6, 13, 20 and 27 March 2026. IEC attended the joint site inspection on 6 March 2026.

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)	Action taken by Contractor	Outcome
6 Mar 2026	Contractor was reminded to provide measures such as sandbags at the site boundary to prevent discharge of surface runoff out of the site.	Sandbags were provided at the site boundary to prevent discharge of surface runoff out of the site	Item was improved in March 2026.
13 Mar 2026	Contractor was reminded to provide proper storage for the chemical container to prevent spillage.	The chemical container was removed.	Item was improved in March 2026.
	Contractor was reminded to provide dust suppression measures to the idled stockpile and exposed site area.	Water spraying was provided to the idled stockpile and exposed site area.	Item was improved in March 2026.
20 Mar 2026	NRMM label should be affixed on the generator.	NRMM label was affixed on the generator.	Item was improved in March 2026.

7.0.3. Within this reporting month, biweekly landscape site audits were conducted on 6 and 20 March 2026.

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
-	-	-	-

8. Complaints, Notification of Summons and Prosecution

8.0.1. No documented environmental complaint was 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
March 2026	0
Total	**60**

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 on site especially at the slope of Lin Tak Road at RIW3 and considering using quieter PMEs whenever possible. Details of QPMEs are as shown in ***Table 8.4***.

Table 8.4 QPME used for construction works

Type of construction equipment	Brand	Model no.	QPME ID	SWL [dB(A)]
Excavator	YANMAR	VIO30-6B	QPME, EPD-10118	93

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.

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***.

Table 9.1 Construction Activities and Recommended Mitigation Measures in Coming Reporting 2 Months

Key Construction Works	Recommended Mitigation Measures
• Reinstatement works at Slope C2 are in-progress. • RC works at FE1 "a" side. • ELS works at CT5. • Erection of Noise barrier steel frame FE1. • ELS works at PC1 to PC4. • RC works at PC1 to PC6. • Reinstatement works at Slope C3 are in-progress. • Watermain works at F1-3 in progress. • Rock excavation using drill & split method, drainage works and road works at Slope D3/ Lin Tak Road are in-progress. • Installation of soil nail works, and slope works at Slope D4 are in-progress. • Construction of RC bridge desk at pier Bridge F1-4 is in-progress. • ELS works at Bridge F1 pier F1-1 & F1-2. • ELS works at Bridge F1 Abutment A.	• 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; • 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. • 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. • 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. • 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.