

TEST REPORT

8/F Block B, Verlstrong Industrial Centre, 34-36 Au Pul Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com



China Harbour Engineering Co Ltd

Contract No.: CV/2021/09 Handling of Surplus Public Fill (2022-2023)

TUEN MUN AREA 38 FILL BANK
MONTHLY EM&A REPORT NO.30
(JUNE 2024)

Prepared by:

LAU, Wing Sum Environmental Officer

Checked by:

LAU, Chi Leung Environmental Team Leader

Issue Date: 09 July 2024

Report No.: ENA43757



UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145 Hennessy Road, Wan Chai, Hong Kong

By Post

Our Ref : P231104-EMA-TMFB-202406-V

Date : 11th July 2024

ETS-Testconsult Limited 8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, NT

Attn: Mr. LAU Chi Leung

Environmental Permit (EP) No. EP-210/2005/F Expansion and Extension of Fill Bank at Tuen Mun Area 38 Monthly EM&A Report for June 2024

Dear Sir,

Pursuant to Condition 4.6 of Environmental Permit (EP) No. EP-210/2005/F, please note the report "Tuen Mun Area 38 Fill Bank Monthly EM&A Report No. 30 (June 2024)" dated 9 July 2024 submitted under the EP, certified by the Environmental Team Leader on 9 July 2024, had been reviewed and is hereby verified.

Should you have any query, please feel free to contact the undersigned at 3756 9590 or ivanting@umwelt.consulting.

Your faithfully,

For and on behalf of:

Umwelt Consulting Limited

Ting/o Chung Ivan

Independent Environmental Checker



ENA43757 Monthly EM&A Report No.30

TABLE O	FCONTENTS	Page
EXECUTI	VE SUMMARY	
1.0	INTRODUCTION	1
2.0	PROJECT INFORMATION	
	2.1 Construction Programme	1
	2.2 Project Organization and Management Structure	1
	2.3 Contact Details of Key Personnel	1
3.0	CONSTRUCTION PROGRESS IN THIS REPORTING MONTH	2
4.0	AIR QUALITY MONITORING	
	4.1 Monitoring Requirement	2
	4.2 Monitoring Equipment	2
	4.3 Monitoring Parameters, Frequency and Duration	2
	4.4 Monitoring Locations and Schedule	2
	4.5 Monitoring Methodology	3
	4.6 Action and Limit levels	4
	4.7 Event-Action Plans	4
	4.8 Results and Observations	4
5.0	MARINE WATER QUALITY MONITORING	
	5.1 Monitoring Requirements	4
	5.2 Monitoring Locations	4
	5.3 Monitoring Parameters and Frequency	4
	5.4 Monitoring Methodology and Equipment Used	5 – 6
	5.5 Action and Limit Levels	6 – 7
	5.6 Event and Action Plan	7
	5.7 Monitoring Duration and Period in this reporting month	7
	5.8 Marine Water Monitoring Results	7
6.0	NOISE MONITORING	•
	6.1 Monitoring Requirements	8
	6.2 Monitoring Equipment	8
	6.3 Monitoring Parameters, Duration and Frequency	8
	6.4 Monitoring Locations and Period	8 8 – 9
	6.5 Monitoring Procedures and Calibration Details 6.6 Action and Limit levels	
	6.7 Event-Action Plans	9 9
	6.8 Results and Observation	9
7.0	ENVIRONMENTAL AUDIT	9
7.0	7.1 Weekly Site Inspection and EPD's Site Inspection	9 – 10
	7.1 Weekly Site inspection and El D's Site inspection 7.2 Review of Environmental Monitoring Procedures	10
	7.3 Status of Environmental Licensing and Permitting	11
	7.4 Implementation Status	11 - 12
8.0	LANDSCAPE AND VISUAL	12
9.0	WASTE MANAGEMENT	
5.0	9.1 Summary of Waste disposed of in this month	12
	9.2 Advice on the Solid and Liquid Waste Management Status	12
10.0	ENVIRONMENATL NON-CONFORMANCE	12
10.0	10.1 Summary of air quality, noise and marine water quality	13
	10.1 Summary of all quality, noise and marine water quality 10.2 Summary of Environmental Complaints	13
	10.3 Summary of Notification of Summons and Prosecution	13
11.0	CONCLUSIONS AND RECOMMENTATIONS	13 - 14
12.0	FUTURE KEY ISSUE	14
14.0	I OTONE NET 1930E	14



Monitoring Schedule for the Coming Month

Reporting Month Monitoring Schedule

Contact Details of Key Personnel

ENA43757 Monthly EM&A Report No.30

APPENDIX	
Α	Organization Chart and Lines of Communication
B1	Calibration Certificates for Impact Air Quality Monitoring Equipments
B2	Impact Air Quality Monitoring Results
B3	Graphical Plots of Impact Air Quality Monitoring Data
C1	Calibration Certificates for Impact Marine Water Quality Monitoring Equipments
C2	Impact Marine Water Quality Monitoring Results
C3	Graphical Plots of Impact Marine Water Quality Monitoring Data
D1	Calibration Certificates for Impact Noise Monitoring Equipments
D2	Impact Noise Monitoring Results
D3	Graphical Plots of Impact Noise Monitoring Data
E	Weather Condition
F	Event-Action Plans
G	Construction Programme
Н	Weekly ET's Site Inspection Record
I	Implementation Schedule of Mitigation Measures
J	Site General Layout Plan
K	Monthly Summary Waste Flow Table

QA/QC Results of Laboratory Analysis Ν 0 Complaint Log

FIGURES

L Μ

Figure 1	Locations of Air Quality Monitoring Stations – Tuen Mun Area 38 Fill Bank
Figure 2	Locations of Water Quality Monitoring Stations – Tuen Mun Area 38 Fill Bank
Figure 3	Locations of Noise Monitoring Stations – Tuen Mun Area 38 Fill Bank

TABLES

2.1

4.1	Air Quality Monitoring Equipment
4.2	Monitoring parameters, duration and frequency of air quality monitoring
4.3	Action and Limit levels for 24-hr TSP and 1-hr TSP
4.4	Summary of 1-hr TSP monitoring results
4.5	Summary of 24-hr TSP monitoring results
5.1	Monitoring Parameters and Frequency of the marine water
5.2	Summary of testing procedure
5.3	Details of Water Quality Monitoring Equipment (In-site measurement)
5.4	Water Quality Action and Limit Levels
5.5	Time Schedule of Water Quality Monitoring
5.6	Summary of Marine Water Quality Exceedances in this reporting month
6.1	Noise Monitoring Equipment
6.2	Duration, Frequencies and Parameters of Noise Monitoring
6.3	Action and Limit Levels for noise monitoring
7.1	Key Findings of Weekly ET Site Inspections in this reporting month
7.2	Summary of environmental licensing and permit status
7.3	Summary of Environmental Complaints and Prosecutions
9.1	Actual amounts of waste generated in this reporting month



ENA43757 Monthly EM&A Report No.30

EXECUTIVE SUMMARY

This monthly Environmental Monitoring and Audit (EM&A) report No.30 was prepared by Environmental Team (ET) of ETS-Testconsult Ltd (ETL) for the "Contract No. CV/2021/09 Handling of Surplus Public Fill (2022-2023) – Tuen Mun (TM) Area 38 Fill Bank" (The Project).

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at TM Area 38 in June 2024.

Site Activities

As informed by the Contractor, the site activities in this reporting period were as below:

- 1. Operation of the Public Fill Reception Facilities at Tuen Mun Fill Bank (TMFB);
- 2. Operation of the Integrated Public Fill Reception Platform (Fixed Rigid Platform) at TMFB;
- 3. Operation and Maintenance of Wheel Washing Bays and Facilities at TMFB;
- 4. Operation and Maintenance of Wash House at TMFB;
- 5. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 6. Operation and Maintenance a Digital Works Supervision System (DWSS) for TMFB;
- 7. Operation of a New Soil Platform for Preliminary Sorting of Public Fill at TMFB;
- 8. Operation of Concrete Slab at Wet Deposition Platform in TMFB
- 9. Operation and Maintenance of Crushing plant at TMFB;
- 10. Delivery of public fill to Taishan at TMFB;
- 11. Operation of AI System for Crushing Plant at TMFB
- 12. Implementation of C Easy system at TMFB (phase 1)
- 13. Carry out GCO Probe test and SRT
- 14. Operation of recycling public fill as blanket layer material of reclamation projects PMI No.70
- 15. Site formation works at a Tsang Tsui site
- 16. Relocation works of soil platforms
- 17. Operation of new Integrated Public Fill Reception Platform at TMFB

Environmental Monitoring Progress

The summary of the monitoring activities in this monitoring month is listed below:

- 24-hour TSP Monitoring: 5 Occasions at 2 designated locations
- 1-hour TSP Monitoring: 15 Occasions at 2 designated locations
- Noise, Daytime: 8 Occasions at 2 designated locations
- Marine Water Quality Monitoring: 13 Occasions at 4 designated locations
- · Weekly-site inspection: 4 Occasions

Air Monitoring

No exceedance of Action and Limit level was recorded for 1-hr and 24-hr TSP monitoring in the reporting period.

Noise Monitoring

No exceedance of Action and Limit level for noise monitoring was recorded in the reporting period.

Marine Water Quality Monitoring

No exceedance of action and limit level was recorded in the reporting period.

Weekly Site Inspection

In general, performance on environmental mitigation measures implemented was found to be satisfactory in this reporting period. The major findings observed during site inspections are presented in the Section 7.0.

Environmental Complaints, Notification of summons and successful prosecutions

No complaint, notification of summon and prosecution with respect to environmental issues was received in this reporting period.



ENA43757 Monthly EM&A Report No.30

Future Key Issues

Based on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- Dust generation from activities on site, such as vehicular movements along unpaved area and rock crushing activities;
- Noise impact from operating equipment and machinery on site;
- · Wastewater and surface runoff from the site discharged into nearby water body; and
- Storage and usage of chemicals / fuel and chemical waste / waste oil.

ENA43757 Monthly EM&A Report No.30

1.0 INTRODUCTION

China Harbour Engineering Co Ltd (CHEC) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Contract No: CV/2021/09 –Handling of Surplus Public Fill (2022-2023) – Tuen Mun (TM) Area 38 Fill Bank" (The Project).

In accordance with the Condition 4 of Part C of Environmental Permit (No.: EP-210/2005/F) (the EP), an EM&A programme as set out in the Project Profile should be implemented.

The EM&A programme requires environmental monitoring for air quality, water quality and environmental site inspections for air quality, water quality, landscape and visual, and waste management. The EM&A requirements for each parameter described in the following sections include:

- All monitoring parameters;
- Monitoring schedules for the reporting month and the coming months;
- Action and Limit levels for all environmental parameters;
- Event/Action Plans:
- Environmental mitigation measures, as recommended in the Project Profile; and
- Environmental requirements in contract documents.

Baseline monitoring was completed in May 2003 by Stanger Asia Ltd. Action and Limit Levels were established for air and water quality parameters based on the baseline monitoring results.

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tuen Mun Area 38 in June 2024.

2.0 PROJECT INFORMATION

2.1 Construction Programme

Details of construction programme are shown in Appendix G.

2.2 Project Organization and Management Structure

The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in Appendix A.

2.3 Contact Details of Key Personnel

The key personnel contact names and telephone numbers are shown in Table 2.1.

Table 2.1 Contact Details of Key Personnel

Organization	Name of Key Staff	Project Role	Tel. No.	Fax No.
CEDD	Mr. C W Au Yeung, Andrew Cheung	Engineer's Representative	2623 9267 / 2762 5588	2714 0113
IEC (Umwelt)	Mr. Ivan Ting	IEC	3756 9590	3582 3310
Contractor (CHZH-JV)	Zhou Chang Ying	Senior Project Manager	96266299	22474108
ET (ETL)	C. L. Lau	ET Leader	2946 7791	2695 3944

June 2024 Page 1 of 14

ENA43757 Monthly EM&A Report No.30

3.0 CONSTRUCTION PROGRESS IN THIS REPORTING MONTH

As informed by the Contractor, the activities in the reporting month include:

- 1. Operation of the Public Fill Reception Facilities at Tuen Mun Fill Bank (TMFB);
- 2. Operation of the Integrated Public Fill Reception Platform (Fixed Rigid Platform) at TMFB;
- 3. Operation and Maintenance of Wheel Washing Bays and Facilities at TMFB;
- 4. Operation and Maintenance of Wash House at TMFB;
- 5. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 6. Operation and Maintenance a Digital Works Supervision System (DWSS) for TMFB;
- 7. Operation of a New Soil Platform for Preliminary Sorting of Public Fill at TMFB;
- 8. Operation of Concrete Slab at Wet Deposition Platform in TMFB
- 9. Operation and Maintenance of Crushing plant at TMFB;
- 10. Delivery of public fill to Taishan at TMFB;
- 11. Operation of Al System for Crushing Plant at TMFB
- 12. Implementation of C Easy system at TMFB (phase 1)
- 13. Carry out GCO Probe test and SRT
- 14. Operation of recycling public fill as blanket layer material of reclamation projects PMI No.70
- 15. Site formation works at a Tsang Tsui site
- 16. Relocation works of soil platforms
- 17. Operation of new Integrated Public Fill Reception Platform at TMFB

4.0 AIR QUALITY MONITORING

4.1 Monitoring Requirement

1-hr and 24-hr TSP levels were monitored in the reporting month. Table 4.3 shows the Action and Limit Levels for the environmental monitoring works.

4.2 Monitoring Equipment

Both 1-hour and 24-hour TSP air quality monitoring was performed using a High Volume Air Sampler (HVS) located at each of the designated monitoring station. Table 4.1 summarizes the equipment used in the air quality monitoring programme. Copies of the calibration certificates for the HVS and calibrator are attached in Appendix B1.

Table 4.1 Air Quality Monitoring Equipment

Equipment	Model and Make
HVS	Graseby GMW 2484 & 1180
Calibrator	Tisch TE-5025A 4128

4.3 Monitoring Parameters, Frequency and Duration

Table 4.2 summarizes the monitoring parameters, monitoring duration and frequencies of air quality monitoring.

Table 4.2 Monitoring parameters, duration, frequency of air quality monitoring

Parameter	Duration	Frequency
24-hr TSP	24 hr	Once per six days
1-hr TSP	1 hr	Three times per six days

4.4 Monitoring Locations and Schedule

In accordance with the Project Profile, two air-quality monitoring stations, namely TM-A1 and TM-A2, were selected for the 1-hr TSP and 24-hr TSP sampling.

Since the area for existing air monitoring station TM-A2 near Tipping Hall No.1 was handed over to EcoPark, air monitoring station TM-A2 was cancelled and the air monitoring was carried out at an alternative air monitoring station TM-RA2 (refer to Figure 1 attached) from 28 October 2008.

June 2024 Page 2 of 14



ENA43757 Monthly EM&A Report No.30

The locations of monitoring stations are shown in Figure 1.

During the reporting month, 1-hr and 24-hr TSP monitoring were carried out as the schedule. The details for 24-hr and 1-hr TSP monitoring carried out in this reporting month are summarized in Appendix B2.

4.5 Monitoring Methodology

Both 1-hr and 24-hr air quality monitoring (High Volume Sampler)

Instrumentation

High volume sampler (HVS) complete with appropriate sampling inlets were employed for both 1-hour and 24-hour TSP monitoring. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Installation

The installation of HVS refers to the requirement stated in Appendix D2 "General Technical Requirements of Environmental Monitoring" in the Environmental Monitoring and Audit Guidelines for Development Projects in Hong Kong published by EPD.

Operation/Analytical Procedures

Operating/analytical procedures for the operation of HVS are as below:

- Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6m³/min and 1.7m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50. The flow rate is indicated on the flow rate chart.
- For TSP sampling, fiberglass filters (GA-55) were used.
- The power supply was checked to ensure the sampler worked properly.
- On sampling, the sampler was operated 5 minutes to establish thermal equilibrium before placing any filter media at designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter. Then the filter holder frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The programmable timer will be set for a sampling period of 1 hour / 24 hours. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number.).
- After sampling, the filter was transferred from the filter holder of the HVS to a sealed plastic bag and sent to the laboratory for weighting. The elapsed time was also recoded.
- Before weighting, all filters were conditioned in a desiccator for 24 hour with the temperature of 25°C ± 3°C and the relative humidity (RH) <50% ±5%.

Maintenance & Calibration

- The HVS and their accessories should be maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVS should be calibrated at bi-monthly intervals.

Wind Data Monitoring

Wind data included wind speed and wind direction were directly extracted from Tuen Mun Station of Hong Kong Observatory during this reporting month. The wind data are presented in Appendix E.

June 2024 Page 3 of 14

ENA43757 Monthly EM&A Report No.30

4.6 Action and Limit Levels

Table 4.3 shows the Action and Limit levels for 24-hr TSP and 1-hr TSP monitoring.

Table 4.3 Action and Limit Levels for 24-hr TSP and 1-hr TSP

Monitoring	24-hr TSP (μg/m³)		1-hr TSP (μg/m³)	
Location	Action Level	Limit Level	Action Level	Limit Level
TM-A1	192	260	344	500
TM-RA2 *	192	260	344	500

Remark (*): Since the area for existing air monitoring station TM-A2 near Tipping Hall No.1 was handed over to EcoPark, air monitoring station TM-A2 was cancelled and the air monitoring was carried out at an alternative air monitoring station TM-RA2 from 28 October 2008. Since dust monitoring stations TM-A2 and TM-RA2 are located close to the major dust emission sources and no significant difference between them on the prevailing meteorological conditions, the baseline data from TM-A2 can also be valid in the case of TM-RA2.

4.7 Event-Action Plans

Please refer to Appendix F for details.

4.8 Results and Observations

All monitoring data of both 1-hr and 24-hr TSP monitoring is provided in Appendix B2. Graphical presentation of 1-hr and 24-hr TSP monitoring results for the reporting period is shown in Appendix B3. Wind data, including wind speed and wind direction, are annexed in Appendix E.

No exceedance of Action and Limit level was recorded for 1-hr and 24-hr TSP monitoring in the reporting month.

Generally, the Contractor implemented sufficient dust mitigation measures, including operation of wheel washing facilities and road dampening by water bowsers on the main haul roads and unpaved areas.

The monitoring results for 1-hr TSP and 24-hr TSP are summarized in Table 4.4 and 4.5 respectively.

Table 4.4 Summary of 1-hr TSP monitoring results

Monitoring Location	Average (μg/m3)	Range (µg/m3)	Action Level (µg/m3)	Limit Level (µg/m3)
TM-A1	223	212-232	344	500
TM-RA2	226	215-238	344	500

Table 4.5 Summary of 24-hr TSP monitoring results

Monitoring Location	Average (µg/m3)	Range (µg/m3)	Action Level (µg/m3)	Limit Level (µg/m3)
TM-A1	126	122-134	192	260
TM-RA2	129	124-137	192	200

5.0 MARINE WATER QUALITY MONITORING

5.1 Monitoring Requirements

In accordance with the Project Profile, impact marine water quality monitoring was conducted three days per week. Measurements were taken at both mid-flood and mid-ebb tides at three depths (i.e. 1m below surface, mid depth and 1m from seabed) at two control monitoring stations (TM-FC1 and TM-FC2) and two impact monitoring stations (TM-FM1and TM-FM2).

June 2024 Page 4 of 14



ENA43757 Monthly EM&A Report No.30

5.2 Monitoring Locations

As stipulated in the EM&A requirement, there were four monitoring stations undertaken during the impact monitoring. Figure 2 shows the locations of the marine water quality monitoring stations.

5.3 Monitoring Parameters and Frequency

Monitoring of the marine water quality parameters and frequency are listed in Table 5.1.

Table 5.1 Monitoring Parameters and Frequency of the marine water

Monitoring Station	Parameter	Frequency	No. of Depths
	Depth (m)		
Control Stations:	Temperature (°C)		
TM-FC1 (Mid-ebb) and TM-FC2 (Mid-flood)	Dissolved Oxygen	2 days/wook	3
11VI-1-G2 (1VIIId-1100d)	(mg/L and % saturation)	3 days/week, 2 tides/day	(Surface, mid-
Impact Stations:	Turbidity (NTU)	2 liues/uay	depth & bottom)
TM-FM1 and TM-FM2	Salinity (ppt)		
	Suspended solids (mg/L)		

5.4 Monitoring Methodology and Equipment Used

For Location of the monitoring stations

Global Positing System (GPS)

A hand-held digital GPS was used to identify the designated monitoring stations prior to water sampling.

For Water Depth measurement

Echo Sounder

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station.

For In-situ Water Quality Measurement

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently recalibrated at 3 monthly intervals or sometimes longer throughout all stages of the water quality monitoring.

Dissolved Oxygen, Salinity, Turbidity and Temperature Measuring Equipment

A portable, weatherproof multiparameter water quality meter (YSI Pro DSS) which complete with cable, sensor and DC power source were used for measuring DO, turbidity, salinity, pH and temperature:

- ■a dissolved oxygen level in the range of 0 to 50 mg/L and 0-500 % saturation;
- ■a turbidity in range 0-4000 NTU;
- ■a salinity in range 0-70 ppt;
- ■a temperature of -5-70 degree Celsius

A membrane electrode with automatic temperature compensation complete with a cable was installed.

For Water Sampling and Sample Analysis

In-situ monitoring was carried out at three depths: 1 meter below water surface, at mid-depth and 1 meter above the seabed. At each sampling depth, duplicate readings of dissolved oxygen content and turbidity were taken. The probes were drop into water, two consecutive measurements of

June 2024 Page 5 of 14

ENA43757 Monthly EM&A Report No.30

dissolved oxygen (DO), dissolved oxygen saturation (DOS), turbidity and salinity were taken. The difference between the two readings of each set was more than 25% of the value of the first reading while a third measurement would be conducted to ensure data precision.

Water Sampler

A water sampler comprising a transparent PVC cylinder, with a capacity of not less than 2 liters, was lowered into the water body at the predetermined depth. The both opening ends of the sampler were then closed accordingly by dead weight and water samples were collected.

Water Container

The sample container, made by high-density polythene, was rinsed with a portion of the water sample. The water sample was then transferred to the container, labeled with a unique sample ID and sealed with a screw cap. The water samples were stored in a cool box maintained at 4°C. The water samples were then delivered to a local HOKLAS-accredited laboratory (Environmental Laboratory, ETS-Testconsult Ltd, HOKLAS Registration No. 022) on the same day for analysis.

The summary of testing method of testing parameter as recommended by EIA or required by EPD, with the QA/QC results in accordance with the requirement of HOKLAS or international accredited scheme is shown in Table 5.2. For the QA/QC procedures, one QC sample, one duplicate sample and one sample spike of every batch of 20 samples were analysis. The QA/QC results are summarized in Appendix N.

Table 5.2 Summary of testing procedure

Laboratory Analysis	Testing Procedure	Detection Limit
Total suspended solids	In house method based on APHA 19 th ed 2540D	1.0 mg/L

In-situ measurement

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use. Responses of sensors and electrodes were checked with certified standard solutions before each use. The DO sensor was calibrated by wet bulb method and a zero check in distilled water was performed with the turbidity and salinity sensor before the strat of measurement.

At each measurement/sampling depth, two consecutive measurements of dissolved oxygen (DO), dissolved oxygen saturation (DOS), turbidity and salinity were taken. For DO, DOS ,Turbidity and Salinity, measurements were conducted three days per week at both mid-ebb and mid-flood tides at three depths (i.e. 1m below surface, mid depth and 1m from seabed). The duplicate measurements were averaged if the difference was not greater than 25%. If the difference is greater than 25%, repeat measurement will be required to be carried out.

Table 5.3 shows the equipment used for in-situ monitoring of water quality. The calibration certificates are attached in Appendix C1.

Table 5.3 Details of Marine Water Quality Monitoring Equipment (In-site measurement)

Table of Telano of marine trains Quanty morning =quipment (in one measurement)					
Parameter	Model	Date of Calibration	Due Date	Equipment No.	
Coordinate of Monitoring stations	Garmin eTrex 10			ET/EW/005/09	
Dissolved Oxygen (Saturation), Temperature, Salinity, Turbidity	YSI Pro DSS Multiparameter Water Quality Meter	28/5/24	27/8/24	ET/EW/008/010*	
Water Depth	Speedtech SM- 5			ET/EW/002/08	

Remark: Indicates the instrument should be calibrated on site.

June 2024 Page 6 of 14

ENA43757 Monthly EM&A Report No.30

5.5 Action and Limit Levels

The water quality criteria, namely Action and Limit (A/L) levels are presented in the table below.

Table 5.4Water Quality Action and Limit Levels

Parameter	Action Level	Limit Level
DO (mg/L)	Surface & Middle	Surface & Middle
	<4.78 mg/L (5%-ile of baseline data)	<4.00 mg/L (1%-ile of baseline data)
	<u>Bottom</u>	<u>Bottom</u>
	<4.16 mg/L (5%-ile of baseline data)	<2.00 mg/L
SS (mg/L)	>120% of the upstream control station's	>130% of the upstream control station's
(Depth-	SS at the same tide on the same day	SS at the same tide on the same day
averaged)		
Turbidity (NTU)	>120% of the upstream control station's	>130% of the upstream control station's
(Depth-	turbidity at the same tide on the same	turbidity at the same tide on the same
averaged)	day	day

5.6 Event and Action Plan

Please refer to the Appendix F for details.

5.7 Monitoring Duration and Period in this reporting period

Table 5.5 is the time schedule for the marine water quality monitoring events that were conducted in this reporting period. Duration of marine water quality monitoring is detailed in Appendix C2.

Table 5.5 Time Schedule of Marine Water Quality Monitoring

			June-202	24			
Sunday	Monday	Tuesday	Wednesda	y Thursday	Friday	Saturday	
						1	
2	3	4	5 ▼	6	7 ▼	8	•
9	10	11	▼ 12	13	1 4 ▼	15	•
16	17	18 ▼	19	2 0 ▼	21	2 2 ▼	
23	24	2 5 ▼	26	₹ 27	28	₹ 29	
30							

Remark: (▼) = Marine water quality monitoring carried out by ET

Marine Water Quality Monitoring Results

The impact water quality measurement results are detailed in Appendix C2. Appendix C3 presents the water quality monitoring data and graphical presentations of monitoring results respectively. The summary of marine water quality exceedances is shown in Table 5.6.

Table 5.6 Summary of Marine Water Quality Exceedances in this reporting period

		Exceedance	D	0				
Tide	Station		Level	Surface & Middle	Bottom	Turbidity	SS	Total
	TM-FM1	Action	0	0	0	0	0	
Mid-Ebb	I IVI-I-IVI I	Limit	0	0	0	0	0	
IVIIU-EDD	TM-FM2	Action	0	0	0	0	0	
	I IVI-LIVIZ	Limit	0	0	0	0	0	

June 2024 Page 7 of 14

^{*}Water quality monitoring (Mid-Flood &Ebb) on 01/06/2024 was rescheduled to 02/06/2024 due to the adverse weather condition (The Tropical Cyclone Signal No.3).



ENA43757 Monthly EM&A Report No.30

	TM-FM1	Action	0	0	0	0	0
Mid- Flood	I IVI-I-IVI I	Limit	0	0	0	0	0
Flood	TM-FM2	Action	0	0	0	0	0
	I IVI-FIVIZ	Limit	0	0	0	0	0
T.	otal	Action	0	0	0	0	0
1	Jiai	Limit	0	0	0	0	0

According to the summary of marine water monitoring results, no exceedance of action and limit level was recorded in this reporting month.

6.0 Noise Monitoring

6.1 Monitoring Requirements

Noise monitoring was conducted at 2 designated monitoring stations as specified in the Sections 25.10A of the Particular Specification for good site practice.

The equipment, parameter, frequency, duration, methodology, calibration details, results and observations of the noise monitoring for the reporting month are presented in this section.

6.2 Monitoring Equipment

An Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level reading including equivalent continuous sound pressure level (Leq) and percentile sound pressure level (Lx). It complies with International Electro Technical Commission Publications IEC 61672 Type 1 specification, and speed in m/s was used to monitor the wind speed.

Table 6.1 summarizes noise monitoring equipment model being used. A copy of the calibration certificate for noise meter and calibrator are attached in Appendix D1.

Table 6.1 Noise Monitoring Equipment

Equipment	Model
Sound Level Meter	Rion NL-52 / Rion NL-31
Calibrator	Rion NC-73

6.3 Monitoring Parameters, Duration and Frequency

Duration, frequencies and parameters of noise measurement are presented in Table 6.2.

Table 6.2 Duration, Frequencies and Parameters of Noise Monitoring

Time period	Duration/min	Parameters	Frequency
Day-time: 0700-1900 hrs on normal weekday	30	L _{eq} , L ₁₀ , L ₉₀	Twice per week

6.4 Monitoring Locations and Period

Since Lands Dept did not approve to carry out noise monitoring at their own area where the noise monitoring stations TM-N1 and TM-N2 located due to the security, noise monitoring carried out at two noise monitoring stations TM-RN1 and TM-RN2 (refer to the figure 3 attached) from 18 December 2007.

The noise monitoring locations, TM-RN1 and TM-RN2 are shown in Figure 3. The noise measurement at TM-RN1 and TM-RN2 are façade measurement.

The noise-monitoring period of monitoring stations is summarized in Appendix D2.

6.5 Monitoring Procedures and Calibration Details

Operation/Analysis Procedures

The Sound Level Meter was set on a tripod at a height of 1.2m above the ground.

June 2024 Page 8 of 14



ENA43757 Monthly EM&A Report No.30

- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

Frequency weighting: A
 Time weighting: Fast
 Time measurement: 30 min

- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1000HZ. If the difference in the calibration level before and after measurement was more than 1dB, the measurement would be considered invalid and repeat measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with a portable wind meter.
- During the monitoring period, the Leq, L10 and L90 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Free Field correction to the measurements should be made. Correction factor of +3dB(A) should be made to the free Field measurements. Noise monitoring would be cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind gusts exceeding 10m/s.

Maintenance and Calibration

- The microphone head of the sound level meter and calibrator are cleaned with soft cloth in quarterly intervals.
- The meter is sent to the supplier or HOKLAS laboratory to check and calibrated in yearly intervals.

6.6 Action and Limit Levels

The Action and Limit levels for noise levels derived as illustrated in Table 6.3.

Table 6.3 Action and Limit Levels for noise monitoring

Time Period	Action	Limit
0700-1900 hrs on normal weekdays	When one documented complaint is received	65 dB(A)

6.7 Event-Action Plans

Please refer to the Appendix F for details.

6.8 Results and Observation

The detail of the noise monitoring is provided in Appendix D2. Graphical presentation of the monitoring result for the reporting period is shown in Appendix D3.

Since no documented complaint on noise issue was received in this reporting period, no Action Level exceedance was recorded. Besides, no exceedance in Limit Level was recorded according to the result from Day-time noise monitoring.

The major sources of noise pollution observed in this reporting month were noise from the traveling dump trucks and from the operation of site machines.

June 2024 Page 9 of 14

ENA43757 Monthly EM&A Report No.30

7.0 ENVIRONMENTAL AUDIT

7.1 Weekly ET Site Inspections and EPD's Site Inspection

7.1.1 Weekly ET Site Inspections

Weekly site inspections were carried out by ET to monitor the timely implementation of proper environmental pollution control and mitigation measures for the Project. In this reporting month, four weekly site inspections were conducted on 06, 13, 21 and 26 June 2024. Summaries of key findings of weekly ET site inspections in this month are described in Table 7.1.

Table 7.1 Key Findings of Weekly ET Site Inspections in this reporting month

	resy i manage of treetay 21 one mepodaerie in and reporting mental					
Date	Key Findings	Action(s) Taken	Action(s) Taken by	Rectification		
		recommended by ET	the Contractor	Status by ET		
			during the site audit			
06						
June	No defective work or obse	ervation was recorded durir	ng the weekly ET site i	inspection		
2024				•		
13						
June	No defective work or observation was recorded during the weekly ET site inspection					
2024						
21	Grease stain in the generator	To remove the green	Grease stain was			
June	tray should be removed to	To remove the grease stain	removed on 26	Closed		
2024	prevent oil leakage	Stairi	June 2024			
26						
June	No defective work or observation was recorded during the weekly ET site inspection					
2024						

7.1.2 The State of Air Quality Control of 3RS area in TMFB

As there was the concern about the dust emission in the 3RS collection area of TMFB, EPD arranged a joint site inspection on 06 October 2022 and the contractor carried out mitigation measures, including increasing the frequency of water spraying by water lorries, setting up water spraying machine in the 3RS area and providing cleaning at the site haul road, to minimize the dust emission. The location of 3RS and discharge point would be inspected in every weekly environmental audit.

7.1.3 EPD's Site Inspection

EPD's site inspection was carried out on 18 June 2024 in this reporting period.

7.2 Review of Environmental Monitoring Procedures

The monitoring works conducted by the ET were inspected internally on a regular basis. The following observations have been recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded the observations around the monitoring stations within and outside of the construction site.
- The monitoring team recorded the temperature, air pressure and general weather condition on the monitoring day.

Water Quality Monitoring

- The monitoring team recorded the observations around the monitoring stations, which might affect the results; and
- Major water pollution sources were identified and recorded.

June 2024 Page 10 of 14



ENA43757 Monthly EM&A Report No.30

Noise Monitoring

- The monitoring team recorded the observations around the monitoring station, which might affect the results.
- Major noise sources were identified and recorded.

7.3 Status of Environmental Licensing and Permitting

All permits/licenses valid in this reporting month are summarized in Table 7.2.

Table 7.2 Summary of environmental licensing and permit status

Description	Permit No.	Valid	Period	Section
		From	То	
Environmental Permit	EP- 210/2005/F	01/01/24		Issued
Chemical Waste Registration	5296-421- C1186-33	20/04/17		Spent battery containing heavy metals and spent lubricating oil
Effluent Discharge License	WT0004275 5-2022	21/02/23	29/02/28	Effluent arising from vehicle washing and dust suppression activities and contaminated surface runoff treated by screening facilities and sedimentation tanks (sedimentation and chemical precipitation).
Marine Dumping Permit	EP/MD/24- 078	02/03/24	30/06/24	Approval for dumping 499,999 tons (approximately equal to 277,777 cu.m. bulked quantity) of Public Fill (Reclamation Materials) from Tseung Kwan O Area 137 Fill Bank and Tuen Mun Area 38 Fill Bank to designated dumping area at Guanghaiwan of Taishan
Billing Account for Waste Disposal	7042821	22/05/17		
Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust)	475208	12/04/17		

7.4 Implementation Status

7.4.1 Implementation Status of Environmental Mitigation Measures

An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix I. Most of the necessary mitigation measures were implemented properly.

7.4.2 Implementation Status of Event and Action Plan

No exceedance of Action and Limit levels was recorded for 1-hr and 24-hr TSP monitoring in the reporting month. Apart from this, there was no exceedance on noise recorded in this month.

According to the marine water monitoring results, no action-level and limit-level exceedance was recorded in this reporting period.

Hence, no further action was required to be implemented.

7.4.3 Implementation Status of Environmental Complaint, Notification of Summon and Successful Prosecution Handling

No complaint, notification of summon and prosecution with respect to environmental issues was received in this reporting period.

June 2024 Page 11 of 14

ENA43757 Monthly EM&A Report No.30

A summary of environmental complaints, notifications of summons and successful prosecutions was given in Table 7.3.

Table 7.3 Summary of Environmental Complaints and Prosecutions

Complaints logged		Summons served		Successful Prosecution	
June 2024	Cumulative	June 2024	Cumulative	June 2024	Cumulative
0	8	0	0	0	0

8.0 LANDSCAPE AND VISUAL

Landscape and visual site audit was carried out on a weekly basis to monitor environmental issues in order to ensure that all mitigation measures were implemented timely and properly. The findings in this reporting period were:

- The maximum stockpiling height at the Fill Bank was limited to a maximum of +65.2 mPD;
- The Contractor hydroseeded the outer slopes of the Fill Bank as far as practicable;
- The Contractor removed the stockpile of public fill in a sequence to allow the outer hydroseeded to be removed later than other portions as far as practicable; and
- Lighting was set to minimize night-time glare.

9.0 WASTE MANAGEMENT

9.1 Summary of Waste disposed of in this period

The actual amounts of different types of waste disposed of by the activities of the Project in the period are shown in Table 9.1 and the Monthly Summary Waste Flow Table is shown in Appendix K.

Table 9.1 Actual amounts of Waste generated in this reporting month

Waste Type	Actual Amount	Disposal Locations
Public Fill ('000m³)	0	Tuen Mun 38 Fill Bank
C&D Waste (Others – e.g. general refuse) ('000kg)	33.86	WENT Landfill
Chemical Waste (kg)/(L)	0(L)	Collected by licensed collector

9.2 Advice on the Solid and Liquid Waste Management Status

The Contractor should provide sufficient preventive measures during equipment maintenance works so as to avoid oil leakage on the ground. In the event of any oil leakage, the Contractor should clean up the polluted soil and handle all the materials used for this cleaning works as chemical waste.

The drain outlet of all the bunded areas should be plugged properly. Besides, pre-cast drip trays were provided for oil drums at several areas, such as workshop and chemical storage area. The Contractor should collect and dispose of any stagnant water accumulated in the concrete bunding and drip trays and handle them as chemical waste.

The Contractor should use suitable containers with proper labels to store chemical wastes in accordance with Code of Practice on the Packaging, Labeling and Storage of Chemical Waste. The Contractor should also advise their workers of the proper procedures in handling the chemical waste. All the trip tickets for chemical waste disposal should be properly kept in the site office.

The Contractor was reminded to increase the frequency of inspection and cleaning of the site drainage system, including permanent desilting chambers, desilting facilities, oil interceptor bypass tank and all the trapezoidal channels. Moreover, the Contractor should apply approved pesticides in the stagnant water ponds.

All the runoff from the parking area should be pumped to the desilting facilities and oil interceptors to remove suspended solids and oil & grease prior to discharge.

June 2024 Page 12 of 14



ENA43757 Monthly EM&A Report No.30

All the discharge measures were managed under Effluent Discharge License. No discharge is allowed before the approval of discharge permit.

10.0 ENVIRONMENTAL NON-CONFORMANCE

10.1 Summary of air quality, noise and marine water quality

No exceedance of Action and Limit level was recorded for 1-hr and 24-hr TSP monitoring in the reporting period.

According to the marine water monitoring results, no action-level and limit-level exceedance was recorded in the reporting period.

The noise level measured at the monitoring station complied with the Limit Level of 65dB(A). No complaint was received regarding noise issue in this reporting period.

10.2 Summary of Environmental Complaints

No complaint was received in this reporting period.

10.3 Summary of Notification of Summons and Prosecution

There was no notification of summon and prosecution respect to environmental issues registered in this reporting period.

11.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Impact monitoring of air quality, noise and water quality were carried out at designated locations in this reporting period.

According to the summary of air monitoring results, no exceedance of Action and Limit levels was recorded for 1-hr and 24-hr TSP monitoring in the reporting period.

According to the marine water monitoring results, no action-level and limit-level exceedance was recorded in the reporting period.

The noise level measured at the monitoring station complied with the Limit Level of 65dB(A). No complaint was received regarding noise issue in this reporting period.

According to the weekly site inspections carried out in this reporting period, the Contractor generally implemented sufficient dust mitigation measures, including operation of the mist spraying systems and automatic wheel washing facilities, dampening of haul roads and stockpiling areas.

No complaint, prosecution or notification of summons was received in this reporting period.

Recommendations

According to the environmental site inspections performed in the reporting period, the following recommendations were provided:

Air Quality

- Ensure the frequency of water spraying on haul roads, unloading areas and stockpiles to be sufficient to suppress the dust sources;
- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Provide water spraying onto the truckloads during inspection of fill material;
- Conduct road sweeping on all paved haul roads and public roads especially outside and near the site egress by the road sweeper. Undertake water spraying on stockpiling area by water bowser;
- Erect adequate speed limit signs to advise the truck drivers of the speed limit;

June 2024 Page 13 of 14



ENA43757 Monthly EM&A Report No.30

- Operate mist spraying systems and automatic water sprinklers in the Fill Bank;
- Implement the dust mitigation measures for the construction activities;
- Designate proper haul roads to ensure effective water spraying; and
- Ensure all vehicles to be washed before leaving the site egress by provision, operation and maintenance of automatic wheel washing facilities.

Noise

- Conduct noisy activities at a farther location from the NSRs.
- Proper schedule of noisy operation and use of quiet machineries on site.

Water Quality

- Maintain the drainage system, including the trapezoidal channels and permanent desilting chambers regularly; and
- Remove the stagnant water or provide approved pesticides for the stagnant water in the permanent desilting chambers, if any.

Chemical and Waste Management

- Remove waste materials from the site to avoid accumulation regularly;
- Handle and store chemical wastes properly;
- Remove unwanted material in the existing stockpiles and avoid further dumping of such material:
- Provide and maintain sufficient drip trays for diesel drums, chemical containers, chemical waste storage drums and diesel operated generator set;
- Maintain good housekeeping at the workshop area;
- Ensure sufficient tarpaulin sheets are provided to cover drip trays; and
- Avoid soil being polluted during oil filling and equipment maintenance; hence, properly remove and store the contaminated soil, if any.

Landscape and Visual

- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location;
- Maintain the hydroseeded slopes properly.

12.0 FUTURE KEY ISSUES

Based on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- Dust generation from activities on site, such as vehicular movements along unpaved area and rock crushing activities;
- Noise impact from operating equipment and machinery on site;
- Wastewater and surface runoff from the site discharged into nearby water body;
- Regular checking of the drainage system;
- Flood prevention; and
- Noise from operation of the crushing plant.

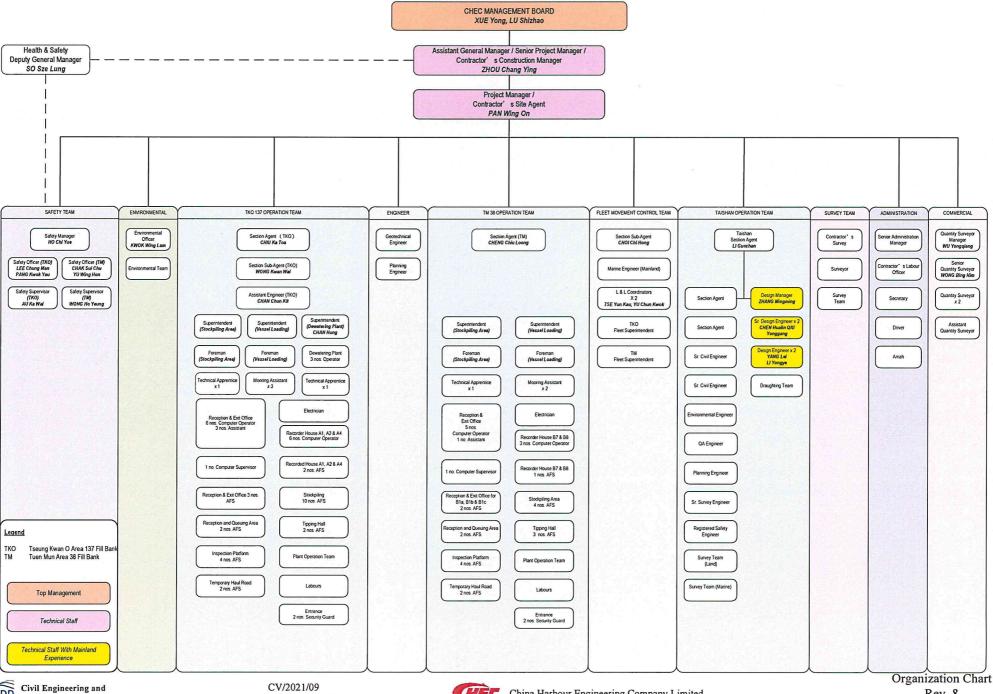
- END OF REPORT -

June 2024 Page 14 of 14



Appendix A

Project Organization Chart









Appendix B1

Calibration Certificates for Impact Air Quality Monitoring Equipments



RECALIBRATION DUE DATE:

January 15, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date: Ja

Calibration Model #:

January 15, 2024

TE-5025A

Rootsmeter S/N: 438320

Ta: 295
Pa: 756.4

°K

Operator:

Jim Tisch

Calibrator S/N: 4228

mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4400	3.3	2.00
2	3	4	1	1.0250	6.4	4.00
3	5	6	1	0.9240	8.0	5.00
4	7	8	1	0.8780	8.9	5.50
5	9	10	1	0.7230	12.8	8.00

	Data Tabulation											
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)							
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)							
1.0010	0.6951	1.4180	0.9956	0.6914	0.8832							
0.9969	0.9726	2.0054	0.9915	0.9674	1.2490							
0.9948	1.0766	2.2421	0.9894	1.0708	1.3964							
0.9936	1.1316	2.3515	0.9882	1.1256	1.4646							
0.9884	1.3671	2.8361	0.9831	1.3597	1.7664							
	m=	2.11633		m=	1.32521							
QSTD[b=	-0.04857	QA	b=	-0.03025							
	r=	0.99987		r=	0.99987							

	Calculation	ıs	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
	For subsequent flow rat	te calculatio	ns:
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 ° _K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30



8/F Block B, Verlstrong Industrial Centre, 34-36 Au Pul Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com

TEST REPORT

Calibration Report of High Volume Air Sampler

Manufacturer

Graseby GMW

Date of Calibration

18 April 2024

Serial No.

2484 (ET/EA/003/27)

Calibration Due Date :

17 June 2024

Method

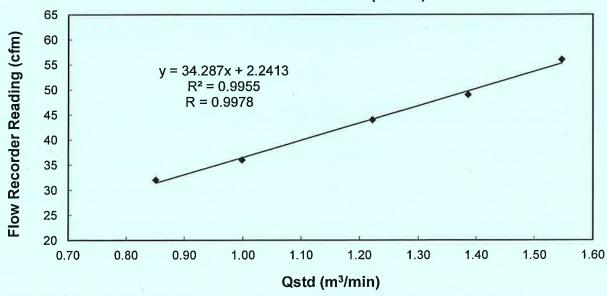
Five-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations

Manual

Results

Flow recorder read	ling (cfm)		56	49	44	36	32
Qstd (Actual flow ra	ate, m³/min)	1.55	1.39	1.22	1.00	0.85	
Pressure:	756.74		Temp. :	300	K	-	

Sampler 2484 Calibration Curve Site: Tuen Mun 38 (TM-A1)



Acceptance Criteria: Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable*/ unacceptable* for use.

Calibrated by

MAK, Kei Wai

(Assistant Supervisor)

Checked by

LAU, Chi Leung

(Environmental Team Leader)



8/F Block B, Veristrong Industrial Centre, 34-36 Au Pul Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: ett@ets-testconsult.com W: www.ets-testconsult.com

TEST REPORT

Calibration Report of High Volume Air Sampler

Manufacturer

Graseby GMW

Date of Calibration

15 June 2024

Serial No.

: 2484 (ET/EA/003/27)

Calibration Due Date :

14 August 2024

Method

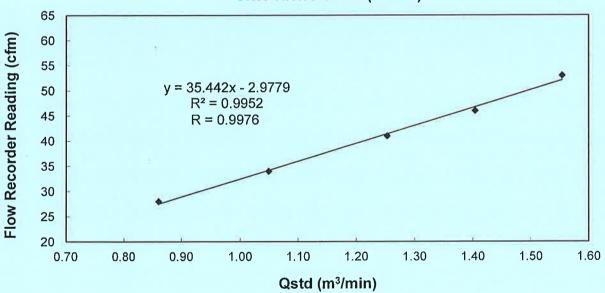
Five-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations

Manual

Results

Flow recorder read	ding (cfm)		53	46	41	34	28
Qstd (Actual flow	rate, m³/min)	1.55	1.40	1.25	1.05	0.86	
Pressure:	753.51		Temp. :	301	K		

Sampler 2484 Calibration Curve Site: Tuen Mun 38 (TM-A1)



Acceptance Criteria: Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable*/ unacceptable* for use.

Calibrated by

MAK. Kei Wai

(Assistant Supervisor)

Checked by

LAU, Chi Leung

(Environmental Team Leader)



8/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com

TEST REPORT

Calibration Report of High Volume Air Sampler

Manufacturer

Graseby GMW

Date of Calibration

18 April 2024

Serial No.

1180 (ET/EA/003/04)

Calibration Due Date

17 June 2024

Method

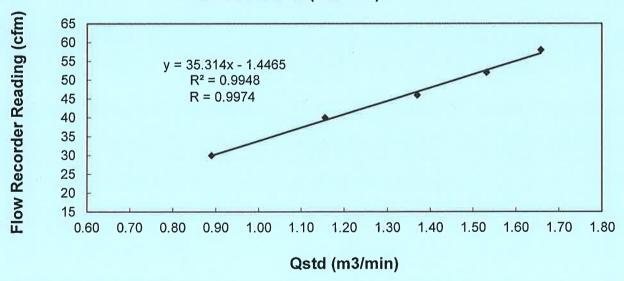
Based on Operations Manual for the 5-point calibration using standard calibration kit

manufactured by Tisch TE-5025 A

Results

Flow recorder rea	ading (cfm)		58	52	46	40	30
Qstd (Actual flow	rate, m³/min)		1.66	1.53	1.37	1.16	0.89
Pressure:	756.74	mm Hg		Temp.:	300	K	

Sampler 1180 Calibration Curve Site: Tuen Mun (TM-RA2)



Acceptance Criteria: Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable* / unacceptable * for use.

Calibrated by :

MAK Kei Wai

(Assistant Supervisor)

Checked by :

LAU, Chi Leung

(Environmental Team Leader)



8/F Block B, Veristrong Industrial Centre, 34-36 Au Pul Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com

TEST REPORT

Calibration Report of High Volume Air Sampler

Manufacturer

Graseby GMW

Date of Calibration

15 June 2024

Serial No.

1180 (ET/EA/003/04)

Calibration Due Date

14 August 2024

Method

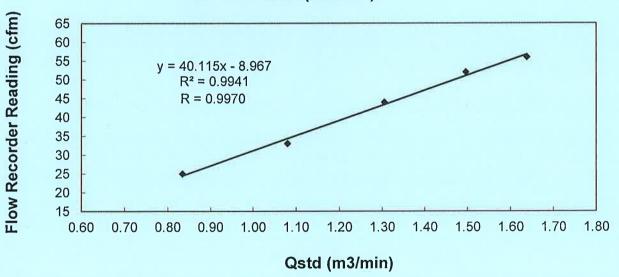
Based on Operations Manual for the 5-point calibration using standard calibration kit

manufactured by Tisch TE-5025 A

Results

Flow recorder read	ding (cfm)		56	52	44	33	25
Qstd (Actual flow	rate, m³/min)		1.64	1.50	1.30	1.08	0.83
Pressure:	753.51	mm Hg		Temp.:	301	K	

Sampler 1180 Calibration Curve Site: Tuen Mun (TM-RA2)



Acceptance Criteria: Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable* / unacceptable * for use.

Calibrated by :

<u>VWX JUY W</u> MAK KeiWai

(Assistant Supervisor)

Checked by :

LAU, Chi Leung

(Environmental Team Leader)



Appendix B2 Impact Air Quality Monitoring Results



Summary of 24-hr TSP Monitoring Results

Monitoring Station : TM-A1

Sta	art	Fin	ish	Elaps	e Time	Time Sampling		Flow Rate (m ³ /min.)		Filter W	/eight (g)	Cana (u.g/m ³)
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m³/min.)	Initial	Final	Conc. (μg/m ³)
06/06/24	09:20	07/06/24	09:20	18025.31	18049.31	24.00	0.9554	0.9554	0.9554	2.7741	2.9585	134
12/06/24	08:30	13/06/24	13:20	18052.31	18076.31	24.00	0.9263	0.9263	0.9263	2.7927	2.9581	124
18/06/24	08:30	19/06/24	08:30	18079.31	18103.31	24.00	1.0433	1.0433	1.0433	2.7338	2.9171	122
24/06/24	08:30	25/06/24	08:30	18106.31	18130.31	24.00	1.0433	1.0433	1.0433	2.7422	2.9315	126
30/06/24	08:30	01/07/24	08:30	18133.31	18157.31	24.00	1.0433	1.0433	1.0433	2.7360	2.9223	124

Monitoring Station : TM-RA2

Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	(m ³ /min.)	, ,		leight (g)	Cana (u.g/m ³)
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m³/min.)	Initial	Final	Conc. (μg/m ³)
06/06/24	09:30	07/06/24	09:30	33312.53	33336.53	24.00	1.0038	1.0038	1.0038	2.7448	2.9428	137
12/06/24	08:30	13/06/24	08:30	33339.53	33363.53	24.00	0.9754	0.9754	0.9754	2.8132	2.9902	126
18/06/24	08:30	19/06/24	08:30	33366.53	33390.53	24.00	1.0462	1.0462	1.0462	2.7451	2.9319	124
24/06/24	08:30	25/06/24	08:30	33393.53	33417.53	24.00	1.0462	1.0462	1.0462	2.7529	2.9472	129
30/06/24	08:30	01/07/24	08:30	33420.53	33444.53	24.00	1.0462	1.0462	1.0462	2.7426	2.9339	127



Summary of 1-hr TSP Monitoring Results

Monitoring Station : TM-A1

MOUTOTIL	Jolalion	•	1 171	-A I							
Date	Tir	me	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Average	Filter W	eight (g)	Comp. (1.15/55 ³)
Dale	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m³/min.)	Initial	Final	Conc. (μg/m³)
02/06/24	10:20	11:20	18022.31	18023.31	1.00	0.9554	0.9554	0.9554	2.7822	2.7948	220
02/06/24	13:00	14:00	18023.31	18024.31	1.00	0.9554	0.9554	0.9554	2.8295	2.8423	223
04/06/24	09:40	10:40	18024.31	18025.31	1.00	0.9554	0.9554	0.9554	2.7134	2.7264	227
08/06/24	09:00	10:00	18049.31	18050.31	1.00	0.9263	0.9263	0.9263	2.7348	2.7466	212
08/06/24	10:00	11:00	18050.31	18051.31	1.00	0.9263	0.9263	0.9263	2.7601	2.7722	218
11/06/24	09:40	10:40	18051.31	18052.31	1.00	0.9263	0.9263	0.9263	2.7839	2.7968	232
13/06/24	10:20	11:20	18076.31	18077.31	1.00	0.9263	0.9263	0.9263	2.7321	2.7446	225
13/06/24	13:30	14:30	18077.31	18078.31	1.00	0.9263	0.9263	0.9263	2.7451	2.7577	227
15/06/24	09:50	10:50	18078.31	18079.31	1.00	1.0433	1.0433	1.0433	2.7631	2.7766	216
20/06/24	09:20	10:20	18103.31	18104.31	1.00	1.0433	1.0433	1.0433	2.7352	2.7490	220
20/06/24	10:30	11:30	18104.31	18105.31	1.00	1.0433	1.0433	1.0433	2.7431	2.7572	225
20/06/24	13:00	14:00	18105.31	18106.31	1.00	1.0433	1.0433	1.0433	2.7501	2.7638	219
25/06/24	13:20	14:20	18130.31	18131.31	1.00	1.0433	1.0433	1.0433	2.7117	2.7257	224
25/06/24	14:25	15:25	18131.31	18132.31	1.00	1.0433	1.0433	1.0433	2.7516	2.7658	227
27/06/24	10:15	11:15	18132.31	18133.31	1.00	1.0433	1.0433	1.0433	2.7399	2.7540	225

Summary of 1-hr TSP Monitoring Results



Monitoring Station : TM-RA2

WICHILOTTI	1		Elapse Time				. 2				
Date	lır	me	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Average	Filter W	eight (g)	Conc. (µg/m ³)
Date	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m³/min.)	Initial	Final	Conc. (µg/m/)
02/06/24	10:30	11:30	33309.53	33310.53	1.00	1.0038	1.0038	1.0038	2.8031	2.8165	222
02/06/24	13:00	14:00	33310.53	33311.53	1.00	1.0038	1.0038	1.0038	2.7938	2.8074	226
04/06/24	09:50	10:50	33311.53	33312.53	1.00	1.0038	1.0038	1.0038	2.7299	2.7438	231
08/06/24	09:10	10:10	33336.53	33337.53	1.00	0.9754	0.9754	0.9754	2.7656	2.7782	215
08/06/24	10:10	11:10	33337.53	33338.53	1.00	0.9754	0.9754	0.9754	2.7619	2.7748	220
11/06/24	09:50	10:50	33338.53	33339.53	1.00	0.9754	0.9754	0.9754	2.7534	2.7673	238
13/06/24	10:30	11:30	33363.53	33364.53	1.00	0.9754	0.9754	0.9754	2.7630	2.7764	229
13/06/24	13:40	14:40	33364.53	33365.53	1.00	0.9754	0.9754	0.9754	2.7531	2.7666	231
15/06/24	10:00	11:00	33365.53	33366.53	1.00	1.0462	1.0462	1.0462	2.7127	2.7264	218
20/06/24	09:30	10:30	33390.53	33391.53	1.00	1.0462	1.0462	1.0462	2.7530	2.7671	225
20/06/24	10:40	11:40	33391.53	33392.53	1.00	1.0462	1.0462	1.0462	2.7428	2.7573	231
20/06/24	13:00	14:00	33392.53	33393.53	1.00	1.0462	1.0462	1.0462	2.7341	2.7481	223
25/06/24	13:30	14:30	33417.53	33418.53	1.00	1.0462	1.0462	1.0462	2.7519	2.7661	226
25/06/24	14:35	15:35	33418.53	33419.53	1.00	1.0462	1.0462	1.0462	2.7162	2.7307	231
27/06/24	10:20	11:20	33419.53	33420.53	1.00	1.0462	1.0462	1.0462	2.7532	2.7676	229

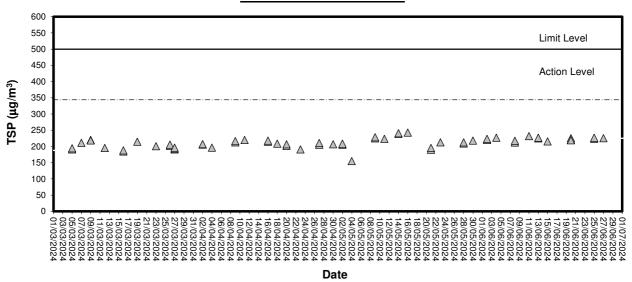


Appendix B3

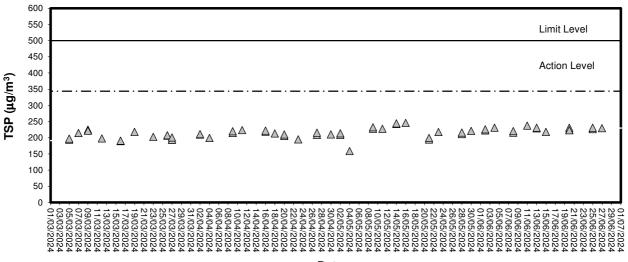
Graphical Plots of Impact Air Quality Monitoring Data



1-hour TSP level at TM-A1



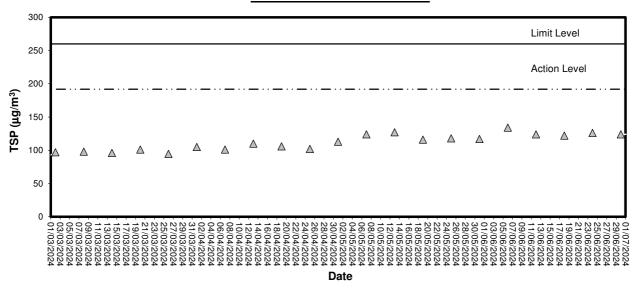
1-hour TSP level at TM-RA2



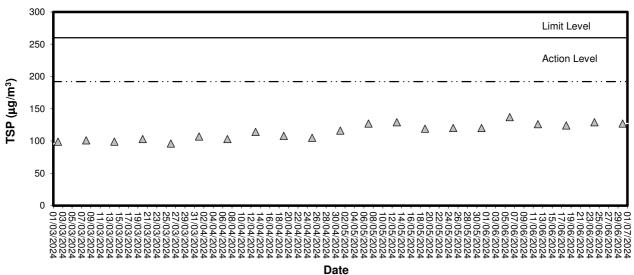
Date



24-hour TSP level at TM-A1



24-hour TSP level at TM-RA2





Appendix C1

Calibration Certificates for Impact Marine Water Quality Monitoring Equipments

Performance Check / Calibration of Multiparameter Water Quality Meter

Equipment Ref. No. :

ET/EW/008/010

Manufacturer

YSI

Model No.

Pro DSS

Serial No.

18E105421

Date of Calibration

28/5/2024

Calibration Due Date

27/8/2024

Results

1. Temperature

(Method Reference: Section 6 of internation Accreditation New Zealand Technical Guide no. 3 Second edition March 2008:

Working Thermometer Calibration Procedure)

Reading of Reference Thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
15.6	15.6	+0.0
25.1	25.0	-0.1
29.3	29.5	+0.2

Tolerance Limit (°C): ± 2.0

2. pH

(Method Reference: APHA 19ed 4500-H⁺ B)

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.00		
6.86		
9.18		

Tolerance Limit (pH unit): ± 0.10

3. Conductivity

(Method Reference: APHA 19ed 2510 B)

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
145.2	146.1	+0.6
1414	1436	+1.6
12892	12572	-2.5
56761	57254	+0.9

Tolerance Limit (μS/cm): ± 10.0%

4. Salinity

(Method Reference: APHA 19ed 2520 B)

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
10.0	10.10	+1.0
20.0	20.50	+2.5
30.0	30.70	+2.3

Tolerance Limit (g/L): \pm 10.0%



Performance Check / Calibration of Multiparameter Water Quality Met	Performance Check	/ Calibration	of Multiparameter	Water Quality	y Meter
---	-------------------	---------------	-------------------	---------------	---------

Equipment Ref. No. :

ET/EW/008/010

Manufacturer

YSI

Model No.

Pro DSS

Serial No.

18E105421

Date of Calibration :

28/5/2024

Calibration Due Date

27/8/2024

5. Dissolved Oxygen

(Method Reference: APHA 19ed 4500-O G)

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.73	1.64	-0.09
4.62	4.48	-0.14
5.91	6.03	+0.12

Tolerance Limit (mg/L): ± 0.20

6. Turbidity

(Method Reference: APHA 19ed 2130 B)

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
10	10.5	+5.00
40	41.1	+2.75
100	104.0	+4.00
400	413.0	+3.25

Tolerance Limit (NTU): ± 10.0%

The equipment complies # / does not comply # with the specified requirements and is deemed acceptable # / unacceptable # for use.

Delete as appropriate

Calibrated by:

(Technician)

Approved by:

Guy, Kong Ping Ki

(Laboratory Manager)

Date: 28/0x/2026



Appendix C2

Impact Marine Water Quality Monitoring Results

Monitoring Station : TM-FC1



	-	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	red Oxygen	(mg/L)		d Oxygen tion (%)	Τι	ırbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Time	Weather Condition		n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		28	Surface	1.0	22.9	16.3 16.4	16.4	7.59 7.56	7.58	7.05	97.0 96.5	96.8	1.52 1.50	1.51		1.2 2.7	2.0	
02/06/24	15:26:16		Middle	11.0	22.6	26.7 26.6	26.6	6.53 6.50	6.52	7.05	88.1 87.7	87.9	1.79 1.83	1.81	1.92	1.7	2.1	2.2
		/ Fine	Bottom	21.0	22.4	28.5 28.7	28.6	6.24 6.21	6.23	6.23	84.8 84.5	84.7	2.46	2.45		2.4	2.6	
		24	Surface	1.0	22.5	23.8	23.8	6.81	6.78		90.4 89.5	90.0	1.42	1.41		1.7	2.0	
04/06/24	17:18:54		Middle	11.2	22.4	29.0 28.6	28.8	6.42	6.44	6.61	87.6 88.0	87.8	1.53	1.54	1.54	1.3	1.2	1.8
		/ Cloudy	Bottom	21.5	22.4	29.5	29.5	6.42	6.41	6.41	87.8 87.5	87.7	1.67	1.68		2.2	2.3	
			Surface	1.0	22.5	29.5	24.4	7.01	7.00		93.2	93.0	1.22	1.21		1.2	2.1	
06/06/24	18:00:23	26	Middle	10.7	22.4	24.4 28.7	28.7	6.98 6.73	6.73	6.86	92.8 91.6	91.6	1.20	1.44	1.41	2.9 1.4	1.3	1.9
		/ Cloudy	Bottom	20.2	22.3	28.7 29.6	29.6	6.72 6.53	6.52	6.52	91.5 89.2	89.1	1.45 1.58	1.59		1.2 2.5	2.2	
			Surface	1.0	22.7	29.6 26.3	26.3	6.51 7.01	7.00	0.02	88.9 94.6	94.4	1.59 1.24	1.25		1.9 3.2	3.8	
00/06/04	8:24:41	26		11.0	22.5	26.4 28.5		6.98 6.75		6.87	94.2 91.9		1.26 1.44		1.47	4.4 3.2		2.0
08/06/24	0.24.41	/ Cloudy	Middle			28.5 29.6	28.5	6.72 6.63	6.74		91.3 90.4	91.6	1.47 1.68	1.46	1.47	4.0 4.8	3.6	3.8
			Bottom	20.9	22.2	29.6 12.6	29.6	6.60 7.45	6.62	6.62	90.0 94.3	90.2	1.70 1.42	1.69		3.2 5.0	4.0	
		29	Surface	1.0	23.5	12.7	12.7	7.43 6.26	7.44	6.85	94.1	94.2	1.45	1.44		6.0	5.5	
11/06/24	8:38:09	/ Cloudy	Middle	11.2	22.6	28.3 29.5	28.3	6.25	6.26		85.2 85.2	85.3	1.21	1.22	1.60	2.0	3.5	4.3
		/ Cloudy	Bottom	21.5	22.5	29.6	29.6	6.20	6.21	6.21	85.0	85.1	2.14	2.13		4.8	3.9	
		29	Surface	1.0	23.3	24.6 24.7	24.6	6.89 6.87	6.88	6.71	93.1 92.8	93.0	0.93 0.96	0.95		4.5 3.8	4.2	
13/05/24	10:04:27		Middle	11.0	23.0	28.1 28.2	28.1	6.55 6.52	6.54		89.8 89.4	89.6	1.42 1.44	1.43	1.41	5.3 5.8	5.6	5.1
		/ Cloudy	Bottom	21.1	22.6	29.4 29.4	29.4	6.44 6.43	6.44	6.44	88.3 88.2	88.3	1.84 1.85	1.85		5.5 5.6	5.6	
		28	Surface	1.0	23.5	9.6 9.7	9.7	7.68 7.65	7.67	6.94	95.5 95.2	95.4	1.87 1.91	1.89		3.2 2.8	3.0	
15/06/24	12:32:13		Middle	11.8	23.0	27.3 27.3	27.3	6.24 6.20	6.22	0.94	85.2 84.6	84.9	1.32 1.34	1.33	1.56	2.0 2.5	2.3	2.6
		/ Rain	Bottom	22.6	22.5	30.7 30.7	30.7	6.07 6.05	6.06	6.06	83.7 83.5	83.6	1.45 1.48	1.47		3.3 1.7	2.5	
		30	Surface	1.0	23.6	21.7 21.7	21.7	7.06 7.03	7.05		94.3 93.9	94.1	1.36	1.35		4.5 4.8	4.7	
17/06/24	16:20:37		Middle	11.0	23.2	27.4	27.4	6.65	6.64	6.84	91.1	90.9	1.76	1.76	1.81	3.1	4.0	4.5
		/ Cloudy	Bottom	21.1	22.5	29.8 29.8	29.8	6.39	6.37	6.37	87.7 87.0	87.4	2.31	2.33	-	4.7	4.7	
		00	Surface	1.0	24.1	8.9	8.9	6.93	6.91		86.8	86.5	1.34	1.33		3.8	3.6	
19/06/24	17:04:48	30	Middle	11.2	23.0	8.9 29.3	29.3	6.89 5.66	5.65	6.28	78.1	77.9	1.63	1.66	1.64	3.4	3.1	2.9
		/ Fine	Bottom	21.3	22.7	29.3 31.5	31.5	5.63 5.38	5.38	5.38	77.6 74.8	74.8	1.68	1.94		2.9	1.9	
			Surface	1.0	24.6	31.5 13.7	13.7	5.37 6.98	6.97		74.7 90.6	90.5	1.94 1.59	1.60		1.8 3.0	3.7	
21/06/24	18:00:41	30	Middle	10.9	24.1	13.7 27.9	27.9	6.96 6.45	6.44	6.71	90.4	89.8	1.60 1.97	1.98	1.93	4.3 3.5	4.5	4.1
50,2 *		/ Fine	Bottom	20.6	23.2	27.9 30.6	30.6	6.43 5.95	5.95	5.95	89.6 83.1	83.0	1.98 2.19	2.21		5.4 5.3	4.1	
				1.0	24.9	30.7 25.9	25.9	5.94 7.25	7.24	5.55	82.9 102.0	101.5	2.22 1.16	1.16		2.9 4.5	5.4	
04/00/04	7,00:10	31	Surface			25.9 29.6		7.22 6.48		6.85	101.0 91.4		1.15		4.00	6.3 4.5		
24/06/24	7:30:42	/ Fine	Middle	11.0	24.1	29.7 30.5	29.6	6.45 6.12	6.47		91.0 85.5	91.2	1.36 1.58	1.35	1.36	4.9 5.0	4.7	5.0
			Bottom	20.9	23.3	30.6	30.6	6.10	6.11	6.11	85.3 101.0	85.4	1.59	1.59		4.6	4.8	
		30	Surface	1.0	24.8	28.0 29.7	28.0	7.12 6.87	7.13	7.00	101.0	101.0	0.96	0.95		3.8	3.5	
26/06/24	8:35:24	/ Fine	Middle	10.8	24.3	29.8	29.7	6.85	6.86		97.0	97.2	1.26	1.25	1.26	2.9	3.5	3.4
		/ FIIIE	Bottom	20.6	23.8	30.3	30.3	6.49	6.47	6.47	91.4	91.0	1.56	1.57		2.5	3.3	
		31	Surface	1.0	24.7	12.5	12.4	6.66	6.65	5.80	86.0 85.8	85.9	0.75	0.81		2.9	3.1	
28/06/24	10:44:09		Middle	11.4	22.8	24.6 24.7	24.7	4.99 4.91	4.95		66.8 65.6	66.2	1.09	1.08	0.99	4.4 4.5	4.5	3.8
		/ Fine	Bottom	21.8	21.8	29.6 29.7	29.6	4.78 4.76	4.77	4.77	64.7 64.3	64.5	1.09	1.10		3.1 4.5	3.8	

Monitoring Station: TM-FM1



5.	-	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	red Oxygen	(mg/L)		d Oxygen tion (%)	Tu	ırbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Time	Weather Condition		n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		00	Surface	1.0	22.9	16.3	16.3	7.68	7.65	avorago	98.1	97.7	1.58	1.57	avorago	1.6	2.0	avorage
00/00/04	45.00.00	28	Middle	9.2	22.7	16.4 25.6	05.0	7.61 6.63	6.61	7.13	97.3 89.2	00.0	1.56 1.70	1.72	4.00	2.4	2.1	
02/06/24	15:06:03	/ Fine	Ivildale	9.2	22.1	25.7	25.6	6.59	6.61		88.4	88.8	1.73	1.72	1.82	1.7	2.1	1.8
ļ		/ Fine	Bottom	17.6	22.4	28.0 28.1	28.1	6.32 6.26	6.29	6.29	85.7 85.0	85.4	2.16 2.18	2.17		1.4	1.3	
		24	Surface	1.0	22.5	23.7 24.0	23.8	6.82 6.85	6.84		90.4	90.7	1.29	1.31		2.1	1.8	
04/06/24	17:36:58	24	Middle	8.5	22.4	25.4	25.5	6.58	6.60	6.72	87.9	88.2	1.47	1.43	1.45	3.6	2.8	2.2
04/00/24	17.00.00	/ Cloudy		0.0		25.6 29.2	20.0	6.62 6.41	0.00		88.5 87.6	00.2	1.39		1.40	2.0	2.0	
		, cloudy	Bottom	15.5	22.4	29.4	29.3	6.41	6.41	6.41	87.7	87.7	1.60	1.61		1.3	2.1	
ļ		26	Surface	1.0	22.4	24.6 24.7	24.6	7.06 7.05	7.06		93.8 93.7	93.8	1.26 1.28	1.27		3.1 4.2	3.7	
06/06/24	18:19:24		Middle	8.2	22.4	28.8	28.8	6.82	6.81	6.93	92.9	92.7	1.44	1.46	1.44	2.8	3.8	3.9
		/ Cloudy	Dattem	15.5	00.4	28.9 29.8	20.0	6.79 6.56	0.55	0.55	92.5 89.8	00.7	1.47 1.59	1.01		4.7	4.4	
			Bottom	15.5	22.4	29.8	29.8	6.54	6.55	6.55	89.6	89.7	1.62	1.61		4.3	4.4	
ļ		26	Surface	1.0	22.7	26.3 26.3	26.3	6.88 6.85	6.87	6.77	92.8 92.4	92.6	1.22	1.23		4.2 3.8	4.0	
08/06/24	8:11:13		Middle	8.7	22.5	28.4 28.5	28.4	6.69 6.66	6.68	0.77	91.1 90.7	90.9	1.46 1.45	1.46	1.50	2.5 5.4	4.0	3.2
		/ Cloudy	Bottom	16.5	22.3	29.5	29.5	6.57	6.56	6.56	89.7	89.6	1.79	1.81		1.8	1.6	•
			Dottoili	10.0	22.0	29.6 13.0	20.0	6.55 6.89		0.00	89.4 87.4	00.0	1.82 1.38			1.4 2.6	1.0	
ļ		29	Surface	1.0	23.5	13.0	13.0	6.83	6.86	6.59	86.2	86.8	1.35	1.37		5.6	4.1	
11/06/24	8:53:06		Middle	8.5	22.6	26.1 26.2	26.2	6.33 6.31	6.32	0.00	85.2 84.9	85.1	1.36	1.38	1.69	5.5 3.6	4.6	4.4
		/ Cloudy	Bottom	16.1	22.5	29.4	29.4	6.22	6.21	6.21	85.2	85.0	2.30	2.31		5.4	4.7	
			0 /	4.0	00.0	29.4 24.4	24.4	6.19 6.84	0.04		84.8 92.3	00.0	2.32 0.95			3.9 5.8	5.0	
		29	Surface	1.0	23.3	24.4	24.4	6.83	6.84	6.61	92.1	92.2	0.97	0.96		4.7	5.3	
13/05/24	10:23:56		Middle	8.6	23.1	28.0 28.0	28.0	6.40 6.38	6.39		87.8 87.6	87.7	1.33	1.35	1.34	4.5 3.8	4.2	4.8
		/ Cloudy	Bottom	16.2	22.6	29.2 29.3	29.2	6.26 6.23	6.25	6.25	85.8 85.5	85.7	1.71 1.72	1.72		4.3 5.8	5.1	
			Surface	1.0	23.5	9.3	9.3	7.35	7.33		91.2	91.0	1.69	1.70		2.6	2.3	
		28				9.3 23.7		7.31 6.17		6.75	90.7 82.5		1.71			1.9 3.6		
15/06/24	12:44:15		Middle	8.2	23.0	23.7	23.7	6.15	6.16		82.2	82.4	1.55	1.55	1.56	3.6	3.6	2.7
		/ Rain	Bottom	15.3	22.6	30.2	30.2	6.11	6.10	6.10	84.2 83.6	83.9	1.44	1.44		2.7	2.4	
		30	Surface	1.0	23.7	21.4 21.4	21.4	7.08 7.05	7.07		94.6 94.2	94.4	1.26 1.29	1.28		2.5 4.6	3.6	
17/06/24	16:03:09	30	Middle	8.7	23.2	27.6	27.6	6.71	6.70	6.88	92.0	91.9	1.78	1.80	1.83	4.6	5.0	4.2
17700724	10.00.00	/ Cloudy		0.7	20.2	27.6 29.3	27.0	6.69 6.30	0.70		91.8 86.5	01.0	1.81 2.41	1.00	1.00	5.3 4.8	0.0	
			Bottom	16.4	22.7	29.3	29.3	6.29	6.30	6.30	86.4	86.5	2.40	2.41		3.6	4.2	
		30	Surface	1.0	24.0	9.5 9.5	9.5	6.89 6.85	6.87		86.4 85.9	86.2	1.76 1.81	1.79		1.5 2.7	2.1	
19/06/24	17:16:13		Middle	8.9	23.1	25.7	25.8	5.67	5.66	6.27	76.8	76.6	1.53	1.54	1.67	1.4	1.9	2.5
ļ		/ Fine				25.8 31.1		5.65 5.36			76.4 74.4		1.55 1.68			3.0		
			Bottom	16.9	22.7	31.1	31.1	5.33	5.35	5.35	74.0	74.2	1.71	1.70		3.8	3.4	
		30	Surface	1.0	24.6	13.8 13.8	13.8	7.06 7.05	7.06	6.86	91.7 91.6	91.7	1.53 1.52	1.53		2.8 4.4	3.6	
21/06/24	18:16:12		Middle	9.0	24.1	27.8 27.8	27.8	6.69 6.64	6.67	0.00	93.4 92.7	93.1	1.94 1.95	1.95	1.93	2.7 2.2	2.5	3.7
ļ		/ Fine	Bottom	16.9	23.3	30.2	30.2	6.12	6.11	6.11	85.4	85.3	2.32	2.33		4.2	5.0	
						30.3 25.5		6.10 7.18			85.1 100.0		2.34 1.12			5.7 3.6		
ļ		31	Surface	1.0	24.9	25.5	25.5	7.16	7.17	6.79	100.0	100.0	1.14	1.13		3.4	3.5	
24/06/24	7:55:38		Middle	9.1	24.2	29.5 29.5	29.5	6.42 6.39	6.41	<u>L</u>	90.6 90.2	90.4	1.37	1.38	1.35	3.6 6.7	5.2	4.4
ļ		/ Fine	Bottom	17.2	23.4	30.3	30.3	6.04	6.04	6.04	84.4	84.3	1.52 1.56	1.54		6.1 2.8	4.5	
			Surface	1.0	24.7	30.3 27.9	27.9	7.21	7.20		84.2 102.0	101.5	1.56	1.03		2.8	3.4	
ļ		30				27.9 29.6		7.19 6.85		7.02	101.0 96.9		1.04			4.2 3.9		ŀ
26/06/24	9:00:48	,	Middle	8.8	24.3	29.7	29.7	6.83	6.84		96.7	96.8	1.38	1.37	1.35	4.3	4.1	3.6
		/ Fine	Bottom	16.6	23.8	30.2	30.3	6.42	6.41	6.41	90.4	90.3	1.64	1.65		3.6 2.9	3.3	
		04	Surface	1.0	24.9	11.8	11.9	6.35	6.35		82.0	82.0	0.38	0.40		3.8	3.4	
28/06/24	11:06:11	31	Middle	9.3	23.0	12.0 24.2	24.2	6.35 4.92	4.92	5.64	82.0 65.9	65.9	0.42	0.61	0.74	2.9 1.7	1.7	2.3
20/00/24	11:00:11	/ Fine	wilddie	5.3	23.0	24.2 28.4	۷4.۷	4.92 4.36	+.32		65.9 58.8	00.8	0.66 1.27	0.01	0.74	1.7 2.7	1./	۷.3
		, 1 1110	Bottom	17.7	22.0	27.5	27.9	4.39	4.38	4.38	59.2	59.0	1.16	1.22		1.0	1.9	

Monitoring Station: TM-FM2



Monitorin	g Statio	n :	TM-FM	2														
Date	Time	Ambient Temp (°C) /		ng Depth	Temp	Salinit	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	ırbidity (NT	U)	Suspe	nded Solids	(mg/L)
Date	Time	Weather Condition	(1	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		28	Surface	1.0	22.8	16.5 16.5	16.5	7.64 7.60	7.62		97.6 97.2	97.4	1.47	1.51		1.5	1.4	
02/06/24	14:50:01		Middle	8.3	22.7	24.9	24.7	6.69	6.69	7.16	89.6	89.5	1.62	1.65	1.83	1.8	1.8	1.9
02/00/24	14.50.01		Wildule	0.0	22.7	24.5	24.7	6.69	0.03		89.3	03.5	1.67	1.00	1.00	1.7	1.0	1.3
		/ Fine	Bottom	15.4	22.4	28.1	28.1	6.32 6.26	6.29	6.29	85.7 84.9	85.3	2.35	2.34		3.3 1.8	2.6	
			Surface	1.0	22.6	24.0	24.0	6.80	6.79		90.3	90.2	1.37	1.38		1.3	2.0	
		24	Odridoc	1.0	22.0	24.0	24.0	6.78	0.70	6.68	90.0	30.2	1.38	1.00		2.7	2.0	
04/06/24	17:56:01		Middle	8.0	22.4	26.6 26.5	26.6	6.54 6.58	6.56		88.0 88.5	88.3	1.42	1.42	1.51	2.6 1.8	2.2	2.1
		/ Cloudy	Bottom	15.3	22.4	29.3	29.4	6.41	6.41	6.41	87.6	87.7	1.75	1.74		2.3	2.0	
						29.4		6.41 6.97			87.7 92.4		1.73 1.27			1.6		
		26	Surface	1.0	22.4	24.2	24.2	6.95	6.96	6.82	92.1	92.3	1.25	1.26		1.8	1.6	
06/06/24	18:34:43		Middle	8.1	22.4	28.3	28.3	6.69	6.69	0.02	90.9	90.8	1.46	1.47	1.42	5.0	4.4	3.3
		/ Cloudy	_			28.4 29.6		6.68 6.43			90.7 88.0		1.48 1.53			3.7		
			Bottom	15.3	22.4	29.7	29.7	6.42	6.43	6.43	87.9	88.0	1.54	1.54		3.8	3.8	
		26	Surface	1.0	22.7	26.5	26.6	6.97 6.95	6.96		94.2	94.1	1.15	1.17		2.5 5.7	4.1	
00/00/04	7.55.45	20			00.5	26.6 28.6	00.0	6.77		6.86	93.9 92.3	00.0	1.16	4.05		4.7		
08/06/24	7:55:45		Middle	8.6	22.5	28.6	28.6	6.76	6.77		92.1	92.2	1.36	1.35	1.42	4.3	4.5	4.3
		/ Cloudy	Bottom	16.0	22.3	29.3 29.4	29.3	6.54 6.52	6.53	6.53	89.2 88.8	89.0	1.72 1.75	1.74		5.3 3.2	4.3	
			Surface	1.0	23.6	12.9	13.0	7.03	7.02		89.3	89.2	1.54	1.56		5.1	5.6	
		29	Surface	1.0	20.0	13.0	13.0	7.01	7.02	6.65	89.1	03.2	1.57	1.50		6.0	3.0	
11/06/24	9:11:56		Middle	8.4	23.1	25.0 25.1	25.1	6.28 6.27	6.28		84.7 84.6	84.7	1.26 1.28	1.27	1.46	6.1 4.8	5.5	5.1
		/ Cloudy	Bottom	15.7	22.5	29.1	29.1	6.23	6.21	6.21	85.1	84.8	1.54	1.55		3.8	4.3	
						29.1 24.6		6.18 6.79			84.5 91.7		1.55 0.89			4.7 3.4		
		29	Surface	1.0	23.3	24.6	24.6	6.78	6.79	6.61	91.4	91.6	0.87	0.88		2.8	3.1	
13/05/24	10:34:29		Middle	8.5	23.0	28.2	28.2	6.45	6.44	0.01	88.5	88.5	1.45	1.47	1.39	1.5	2.2	3.4
		/ Cloudy	_			28.3 29.5		6.43 6.38			88.4 87.6		1.48			2.8 5.0		
		,	Bottom	15.9	22.6	29.6	29.6	6.35	6.37	6.37	87.2	87.4	1.82	1.82		4.6	4.8	
		28	Surface	1.0	23.5	9.7 9.7	9.7	7.41 7.38	7.40		92.2 91.8	92.0	1.65 1.64	1.65		4.9 5.7	5.3	
15/06/24	13:01:06	20	Middle	7.6	00.0	22.6	00.1	6.23	6.22	6.81	83.0	00.1	1.32	1.00	1.49	4.0	4.0	2.0
15/06/24	13.01.06		Middle	7.6	23.2	23.7	23.1	6.20	0.22		83.1	83.1	1.34	1.33	1.49	3.9	4.0	3.6
		/ Rain	Bottom	14.3	22.7	30.1	30.1	5.94 5.91	5.93	5.93	81.9 81.5	81.7	1.48	1.49		1.3	1.4	
			Surface	1.0	23.7	21.4	21.4	7.06	7.06		94.3	94.2	1.22	1.24		4.6	4.9	
		30	Canado		20.7	21.4 27.3		7.05 6.68	7.00	6.86	94.0 91.6	01.2	1.26 1.75			5.1 4.6		
17/06/24	15:48:08		Middle	8.1	23.3	27.3	27.3	6.64	6.66		91.1	91.4	1.77	1.76	1.80	4.4	4.5	4.6
		/ Cloudy	Bottom	15.1	22.8	29.6	29.6	6.36	6.35	6.35	87.6	87.4	2.39	2.41		4.4	4.4	
						29.6 9.4		6.33 7.06			87.1 88.7		2.42 1.73			4.4 3.5		
		30	Surface	1.0	24.1	9.4	9.4	7.02	7.04	6.50	88.0	88.4	1.72	1.73		3.3	3.4	
19/06/24	17:39:10		Middle	7.8	23.2	24.0	24.1	5.98	5.96	0.00	80.4	80.2	1.81	1.83	1.77	2.5	2.5	2.6
		/ Fine				24.1 30.8		5.94 5.56			79.9 77.2		1.84			2.5		•
			Bottom	15.0	22.8	30.9	30.9	5.50	5.53	5.53	76.3	76.8	1.78	1.76		1.8	1.9	
		30	Surface	1.0	24.6	13.5 13.5	13.5	6.94 6.92	6.93		90.0 89.6	89.8	1.68	1.70		4.3	4.5	
21/06/24	18:35:30		Middle	8.8	24.1	27.6	27.6	6.41	6.40	6.66	89.4	89.2	2.03	2.04	2.01	3.2	3.2	3.7
21/00/24	10.33.30	/ ===	wildale	0.0	£4.1	27.7	21.0	6.38	0.40		89.0	03.2	2.05	2.04	2.01	3.2	3.2	3.7
		/ Fine	Bottom	16.6	23.3	30.2	30.2	5.87 5.85	5.86	5.86	81.9 81.6	81.8	2.28	2.30		2.4 4.5	3.5	
			Surface	1.0	24.9	25.6	25.6	7.16	7.15		100.0	99.9	1.06	1.08		4.2	4.8	
		31				25.7 29.4		7.14 6.41		6.77	99.8 90.4		1.09			5.4 6.0		
24/06/24	8:12:10		Middle	8.9	24.2	29.5	29.5	6.37	6.39		89.9	90.2	1.33	1.31	1.29	6.1	6.1	5.6
		/ Fine	Bottom	16.6	23.5	30.4	30.4	6.03	6.01	6.01	84.5	84.2	1.46	1.47		6.9	6.1	
						30.4 27.6		5.99 7.23			83.8 102.0		1.48 0.98			5.2 3.4		
		30	Surface	1.0	24.8	27.6	27.6	7.20	7.22	7.07	101.0	101.5	1.02	1.00		3.1	3.3	
26/06/24	9:18:50		Middle	8.9	24.4	29.4 29.5	29.4	6.93 6.92	6.93	7.07	98.1	98.1	1.32	1.33	1.31	2.6	3.5	3.1
		/ Fine		,		30.0	6	6.92			98.0 91.9	<u> </u>	1.33	, = :		2.7		ł
			Bottom	16.6	23.7	30.0	30.0	6.52	6.54	6.54	91.5	91.7	1.60	1.59		2.2	2.5	
		31	Surface	1.0	24.6	12.7 12.6	12.6	6.36 6.37	6.37		82.1 82.2	82.2	0.42	0.44		4.5 3.1	3.8	
28/06/24	11:16:11		Middle	Ω 1	22.9	23.9	23.9	5.19	5.16	5.76	69.3	68.9	0.45	0.69	0.76	2.8	3.9	3.7
20/00/24	11.10.11	/ Fine	wildale	8.1	22.3	23.9	20.8	5.12	3.10		68.4	00.9	0.63	0.09	0.76	5.0	3.3	3.1
		/ rine	Bottom	15.2	22.5	26.9 26.9	26.9	4.61 4.55	4.58	4.58	62.2 61.3	61.8	1.17	1.17		3.3	3.3	
	l .	l .	1						1								1	

Monitoring Station : TM-FC2



_		Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Time	Weather Condition		m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		28	Surface	1.0	22.8	15.7 15.7	15.7	7.89 7.77	7.83	7.05	100.4 98.9	99.7	1.54 1.51	1.53		2.4	2.4	
02/06/24	14:31:00		Middle	7.5	22.6	25.1 24.9	25.0	6.67 6.66	6.67	7.25	89.4 88.9	89.2	1.74 1.78	1.76	1.79	2.1	2.4	2.2
		/ Fine	Bottom	14.3	22.4	28.1	28.1	6.27	6.26	6.26	85.1	85.0	2.08	2.08		2.0	1.7	
			Surface	1.0	22.5	28.1 24.7	24.4	6.25 6.71	6.73		84.8 89.4	89.6	2.08 1.36	1.37		1.4 2.0	1.8	
		24				24.2 25.1		6.75 6.61		6.68	89.8 88.2		1.37			1.5		
04/06/24	18:21:01	/ Cloudy	Middle	7.9	22.5	25.1 29.0	25.1	6.64 6.55	6.63		88.6 89.5	88.4	1.41	1.42	1.43	1.9	1.7	2.0
		7 Gloddy	Bottom	14.8	22.5	29.1	29.1	6.49	6.52	6.52	88.6	89.1	1.50	1.49		2.4	2.7	
		26	Surface	1.0	22.4	24.5 24.6	24.5	6.95 6.91	6.93	6.79	92.3 91.8	92.1	1.27 1.28	1.28		4.7 3.5	4.1	
06/06/24	18:48:20		Middle	7.9	22.4	28.5 28.5	28.5	6.65 6.63	6.64	0.70	90.4 90.1	90.3	1.48 1.50	1.49	1.45	4.0 2.7	3.4	3.9
		/ Cloudy	Bottom	14.8	22.3	29.6 29.6	29.6	6.52 6.48	6.50	6.50	89.0 88.7	88.9	1.56 1.59	1.58		5.2 3.5	4.4	
		00	Surface	1.0	22.7	26.4	26.4	6.87	6.86		92.7	92.5	1.26	1.27		3.9	4.1	
08/06/24	7:36:22	26	Middle	8.2	22.5	26.4 28.4	28.4	6.84 6.63	6.62	6.74	92.3 90.2	90.1	1.28 1.48	1.49	1.51	4.2	5.0	4.5
		/ Cloudy				28.4		6.61 6.55		0.50	90.0 89.2		1.50 1.77			5.2 3.7		
			Bottom	15.4	22.3	29.2 13.8	29.2	6.51 6.81	6.53	6.53	88.7 86.3	89.0	1.78	1.78		5.0 4.5	4.4	
		29	Surface	1.0	23.2	13.8	13.8	6.78	6.80	6.64	85.9	86.1	1.36	1.35		5.3	4.9	
11/06/24	9:33:58		Middle	7.1	22.6	21.2 21.2	21.2	6.49 6.48	6.49		84.9 84.7	84.8	1.35 1.37	1.36	1.61	4.4 5.5	5.0	4.7
		/ Cloudy	Bottom	13.2	22.5	29.1 29.2	29.2	6.20 6.20	6.20	6.20	84.8 84.8	84.8	2.10	2.11		5.4 3.3	4.4	
		29	Surface	1.0	23.2	24.3 24.3	24.3	6.76 6.74	6.75		91.0 90.7	90.9	0.92 0.94	0.93		5.3 5.4	5.4	
13/05/24	10:53:48		Middle	8.0	23.0	27.9	27.9	6.43	6.42	6.58	88.0	87.8	1.44	1.46	1.43	2.7	2.9	4.3
		/ Cloudy	Bottom	15.0	22.7	27.9 29.0	29.0	6.40 6.32	6.31	6.31	87.6 86.6	86.4	1.47 1.89	1.91		3.1	4.7	
						29.0 11.3		6.29 7.25			86.2 91.1		1.92			5.9 5.7		
		28	Surface	1.0	23.5	11.4 22.5	11.3	7.23 6.25	7.24	6.73	90.8 83.3	91.0	1.73 1.42	1.72		2.8 3.1	4.3	
15/06/24	13:21:34	/ Daile	Middle	7.6	23.2	22.6	22.5	6.20	6.23		82.6	83.0	1.46	1.44	1.54	3.2	3.2	3.8
		/ Rain	Bottom	14.7	22.6	30.1 30.1	30.1	6.04 6.02	6.03	6.03	83.2 82.9	83.1	1.43	1.45		5.0 2.8	3.9	
		30	Surface	1.0	23.6	21.6 21.7	21.7	7.19 7.18	7.19	6.98	96.0 95.9	96.0	1.32	1.33		3.8 4.2	4.0	
17/06/24	15:30:19		Middle	7.8	23.3	27.5 27.5	27.5	6.79 6.75	6.77	0.90	93.2 92.7	93.0	1.80 1.81	1.81	1.86	3.5 3.9	3.7	4.0
		/ Cloudy	Bottom	14.6	22.7	29.7	29.7	6.44	6.43	6.43	88.6 88.2	88.4	2.43	2.45		4.0	4.2	
			Surface	1.0	24.0	9.7	9.7	7.02	7.00		88.2	88.0	1.80	1.79		4.4	4.1	
19/06/24	18:03:22	30	Middle	8.3	23.1	9.7 25.2	25.3	6.98 5.66	5.66	6.33	87.7 76.5	76.4	1.78 1.56	1.58	1.72	3.5 1.6	2.1	3.3
10/00/21	10.00.22	/ Fine				25.3 30.9		5.65 5.38		5.04	76.3 74.5		1.59 1.79			2.6 4.0		0.0
			Bottom	15.4	22.7	31.1 13.8	31.0	5.30 6.88	5.34	5.34	73.5 89.2	74.0	1.82	1.81		3.6 5.5	3.8	
		30	Surface	1.0	24.5	13.8	13.8	6.84	6.86	6.62	88.7	89.0	1.66	1.64		5.3	5.4	
21/06/24	18:52:59		Middle	8.5	24.1	27.9 27.9	27.9	6.39	6.39		89.2 89.2	89.2	1.99 2.03	2.01	1.98	4.7	4.8	4.6
		/ Fine	Bottom	16.0	23.2	30.6 30.7	30.6	5.84 5.81	5.83	5.83	81.5 81.1	81.3	2.29	2.30		3.8	3.7	
		31	Surface	1.0	24.9	25.4 25.5	25.4	7.33 7.31	7.32		102.0 102.0	102.0	1.20 1.21	1.21		4.9 6.4	5.7	
24/06/24	8:23:14		Middle	8.4	24.3	29.6 29.6	29.6	6.52	6.51	6.92	92.2	92.0	1.35	1.37	1.37	4.7	4.8	5.9
		/ Fine	Bottom	15.6	23.4	30.6	30.6	6.18	6.17	6.17	86.5	86.4	1.55	1.55		7.5	7.3	
			Surface	1.0	24.8	30.6 27.8	27.8	6.16 7.28	7.27		86.3 103.0	102.5	1.54	1.02		7.0 2.6	2.4	
00/22		30				27.8 29.5		7.25 6.97		7.11	102.0 98.6		1.03 1.46		,	2.1 4.9		
26/06/24	9:30:46	/ Fine	Middle	8.5	24.3	29.6	29.5	6.95	6.96		98.3 92.1	98.5	1.49	1.48	1.37	3.6	4.3	3.3
		, 1 1116	Bottom	16.0	23.6	30.3	30.3	6.54	6.55	6.55	91.8	92.0	1.62	1.62		3.0	3.3	
		31	Surface	1.0	24.4	12.6 12.7	12.6	6.32 6.34	6.33	5.58	81.3 82.0	81.7	0.41 0.44	0.43		4.2 3.3	3.8	
28/06/24	11:34:22		Middle	7.3	23.4	21.1 21.1	21.1	4.81 4.83	4.82	3.30	63.8 64.1	64.0	0.95 1.00	0.98	0.86	2.0 3.4	2.7	3.2
		/ Fine	Bottom	13.6	22.5	26.8	26.9	4.47	4.45	4.45	60.3	59.9	1.18	1.17		2.6	3.3	
]	1	j .		26.9	j	4.42	j		59.5	<u> </u>	1.16	j	<u> </u>	3.9	1	j

Monitoring Station : TM-FC1



Monitorin		Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	red Oxygen	(mg/L)		ed Oxygen	Tu	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Time	Weather Condition		n)	(°C)	Value	Average	Value	Average	Depth-	Value	Average	Value	Average	Depth-	Value	Average	Depth-
			Surface	1.0	22.9	15.5	15.6	7.70	7.69	average	98.0	97.9	1.72	1.74	average	2.0	2.4	average
00/00/04	0.04.40	28	NA: Julia	40.4	00.7	15.6 26.5	00.4	7.68 6.60	0.00	7.14	97.7 89.1	00.0	1.75 1.70	4.70	0.40	2.7	4.5	
02/06/24	9:01:18	/ Fine	Middle	10.1	22.7	26.4 28.5	26.4	6.59	6.60		88.8	89.0	1.74	1.72	2.12	1.8	1.5	1.8
		/ Fille	Bottom	19.4	22.4	28.6	28.5	6.24 6.21	6.23	6.23	84.9 84.6	84.8	2.91	2.90		1.0	1.5	
		24	Surface	1.0	22.6	23.6 23.7	23.7	6.88 6.82	6.85		91.1 90.4	90.8	1.34	1.35		1.1	1.5	
04/06/24	11:45:55		Middle	11.3	22.4	28.6	28.3	6.46	6.49	6.67	87.9	88.2	1.64	1.61	1.50	4.2	3.2	2.8
		/ Cloudy	Bottom	21.3	22.4	28.0 29.2	29.2	6.52 6.46	6.45	6.45	88.4 88.2	88.2	1.57 1.53	1.56		2.2	3.7	-
						29.2 24.4		6.44 6.84		0.10	88.1 91.0		1.58 1.24			4.5 4.4		
		26	Surface	1.0	22.5	24.5	24.5	6.85	6.85	6.75	91.1	91.1	1.25	1.25		3.9	4.2	
06/06/24	13:20:16		Middle	11.1	22.4	28.9 28.9	28.9	6.65 6.64	6.65		90.6 90.5	90.6	1.47	1.48	1.42	3.8 2.8	3.3	3.8
		/ Cloudy	Bottom	21.3	22.4	29.6 29.6	29.6	6.48 6.44	6.46	6.46	88.7 88.0	88.4	1.54 1.56	1.55		4.8 3.1	4.0	
			Surface	1.0	22.8	26.3	26.3	6.93	6.93		93.7	93.6	1.35	1.36		3.9	4.7	
08/06/24	13:01:54	26	Middle	10.5	22.5	26.3 28.4	28.4	6.92 6.74	6.73	6.83	93.4 91.7	91.5	1.36 1.67	1.66	1.65	5.5 5.3	6.0	5.2
06/06/24	13.01.54	/ Cloudy	Middle	10.5	22.5	28.4 29.4	20.4	6.71 6.58	6.73		91.3 89.6	91.5	1.65 1.92	1.66	1.00	6.6 5.6	6.0	5.2
		7 Gloday	Bottom	20.1	22.2	29.5	29.5	6.56	6.57	6.57	89.4	89.5	1.93	1.93		4.0	4.8	
		29	Surface	1.0	23.0	15.5 15.6	15.5	6.72 6.69	6.71		85.7 85.3	85.5	1.26	1.27		3.9 5.9	4.9	
11/06/24	16:31:03		Middle	11.6	22.6	26.9 26.9	26.9	6.26 6.25	6.26	6.48	84.6 84.5	84.6	1.71	1.70	1.59	2.7	2.8	3.9
		/ Cloudy	Bottom	22.3	22.5	29.1	29.1	6.18	6.18	6.18	84.4	84.4	1.77	1.80		4.9	4.0	_
						29.2 24.6		6.17 6.70			84.4 90.5		1.82 0.96			3.0 6.0		
		29	Surface	1.0	23.3	24.6	24.6	6.69	6.70	6.52	90.4	90.5	0.98	0.97		6.6	6.3	_
13/05/24	17:18:35		Middle	11.4	23.0	28.7 28.8	28.8	6.35 6.34	6.35		87.4 87.3	87.4	1.38	1.39	1.39	2.2	2.5	4.4
		/ Cloudy	Bottom	21.6	22.6	29.3 29.3	29.3	6.18 6.16	6.17	6.17	84.7 84.3	84.5	1.82	1.82		3.3 5.4	4.4	
		28	Surface	1.0	23.5	10.3	10.3	7.76 7.74	7.75		96.9	96.8	2.32 2.36	2.34		2.9	2.8	
15/06/24	7:48:01	20	Middle	12.1	23.0	10.3 27.6	27.6	6.24	6.24	6.99	96.6 85.3	85.3	1.14	1.15	2.01	2.7	2.7	2.9
		/ Rain				27.7 30.7		6.23 6.02			85.2 83.2		1.15 2.52			2.8		1
			Bottom	23.1	22.6	30.7	30.7	5.99	6.01	6.01	82.8	83.0	2.57	2.55		3.7	3.2	
		30	Surface	1.0	23.6	21.4 21.4	21.4	7.02 7.01	7.02	6.89	93.6 93.4	93.5	1.32	1.35		5.4 3.1	4.3	
17/06/24	9:00:44		Middle	11.2	23.2	28.4 28.5	28.4	6.77	6.76		93.3 92.9	93.1	1.73	1.74	1.80	4.6 3.8	4.2	4.2
		/ Cloudy	Bottom	21.4	22.7	30.7 30.7	30.7	6.35	6.34	6.34	87.9	87.8	2.31	2.32		4.4	4.3	
			Surface	1.0	23.9	8.9	9.0	6.33 6.95	6.94		87.6 86.7	86.6	2.33	2.75		2.0	2.3	
		30				9.0 29.4		6.92 5.61		6.27	86.4 77.6		2.76 1.81			2.5		-
19/06/24	11:08:20	. 5:	Middle	11.2	23.1	29.4	29.4	5.59	5.60		77.4	77.5	1.85	1.83	2.14	1.9	2.0	2.7
		/ Fine	Bottom	21.8	22.7	31.4 31.5	31.4	5.40 5.38	5.39	5.39	75.1 74.8	75.0	1.83	1.83		3.1 4.4	3.8	
		30	Surface	1.0	24.7	13.3 13.4	13.3	6.97 6.94	6.96		90.5 90.1	90.3	1.68	1.69		3.9 4.0	4.0	
21/06/24	12:36:51		Middle	11.2	24.0	27.6	27.6	6.46	6.44	6.70	89.9	89.6	2.04	2.05	2.00	5.5	5.4	4.9
		/ Fine	Bottom	21.4	23.2	27.6 30.6	30.7	6.42 5.93	5.92	5.92	89.3 82.8	82.6	2.06 2.25	2.26		5.3 5.6	5.5	1
						30.7 25.3		5.90 7.24		5.52	82.4 101.0		2.26 1.22			5.3 5.6		
		31	Surface	1.0	24.8	25.4	25.3	7.22	7.23	6.85	101.0	101.0	1.23	1.23		3.5	4.6	
24/06/24	14:26:05		Middle	10.8	24.2	29.6 29.6	29.6	6.49	6.48		91.6 91.1	91.4	1.46	1.45	1.46	4.9 6.1	5.5	4.7
		/ Fine	Bottom	20.6	23.2	30.6 30.7	30.7	6.20 6.18	6.19	6.19	86.6 86.3	86.5	1.69	1.70		4.6 3.6	4.1	
		00	Surface	1.0	24.7	28.0	28.0	6.98	6.97		98.5	98.4	1.20	1.21		5.3	5.6	
26/06/24	15:55:00	30	Middle	10.8	24.4	28.0 29.9	29.9	6.96 6.64	6.63	6.80	98.3 94.2	94.1	1.21	1.36	1.36	5.8 4.4	4.0	4.5
20/00/24	13.33.00	/ Fine	wilddie			29.9 30.5		6.62 6.27			94.0 88.1		1.37 1.49		1.30	3.6 3.1		4.0
		, 1 1110	Bottom	20.4	23.6	30.6	30.5	6.24	6.26	6.26	87.5	87.8	1.53	1.51		4.9	4.0	
		31	Surface	1.0	24.7	11.7	11.7	6.29 6.33	6.31	F.0.1	80.9 81.6	81.3	0.54 0.61	0.58		2.4 3.8	3.1	
28/06/24	17:23:32		Middle	11.6	22.5	25.4 25.5	25.5	4.97 4.96	4.97	5.64	66.5 66.6	66.6	0.93 0.91	0.92	1.00	1.9	1.9	3.1
		/ Fine	Bottom	22.1	21.9	28.8	28.8	4.59	4.57	4.57	61.9	61.5	1.52	1.50	Į Į	4.2	4.3	1
						28.8		4.54			61.1		1.47			4.4	L	

Monitoring Station : TM-FM1



Date	Time	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen			d Oxygen tion (%)	Τι	rbidity (NT		Suspe	nded Solids	
_ 3.0		Weather Condition	(1	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		28	Surface	1.0	22.9	15.8 15.9	15.9	7.68 7.63	7.66		97.8 97.2	97.5	1.58	1.53		2.6	2.0	
02/06/24	9:21:00		Middle	8.0	22.7	22.2	22.7	6.75	6.72	7.19	88.9	89.1	1.82	1.83	1.88	2.1	2.2	1.9
		/ Fine			00.5	23.1 28.0		6.68 6.25		0.04	89.3 84.8		1.83 2.27			2.3 1.9	4.5	
			Bottom	14.9	22.5	28.1	28.0	6.23	6.24	6.24	84.5	84.7	2.30	2.29		1.1	1.5	
		24	Surface	1.0	22.5	24.5 24.2	24.4	6.82 6.86	6.84	6.77	90.9	91.1	1.22	1.20		2.6 1.5	2.1	
04/06/24	11:12:21		Middle	8.5	22.5	25.4 25.2	25.3	6.68 6.72	6.70	0.77	89.2 89.8	89.5	1.52 1.47	1.50	1.42	2.9	2.7	2.6
		/ Cloudy	Bottom	17.5	22.5	29.1	29.1	6.57	6.56	6.56	89.8	89.6	1.56	1.58		4.4	3.2	†
						29.1 24.4		6.55 6.86			89.4 91.2		1.59 1.22			2.0 3.7		
		26	Surface	1.0	22.5	24.4	24.4	6.84	6.85	6.76	91.0	91.1	1.21	1.22		5.4	4.6	
06/06/24	13:00:31		Middle	8.3	22.5	28.7 28.8	28.8	6.68	6.67		91.1	91.0	1.40 1.42	1.41	1.39	3.9 4.3	4.1	4.3
		/ Cloudy	Bottom	15.6	22.5	29.6 29.6	29.6	6.42 6.39	6.41	6.41	88.0 87.6	87.8	1.55 1.56	1.56		4.2 4.1	4.2	Ī
			Surface	1.0	22.8	26.5	26.5	7.05	7.04		95.4	95.3	1.39	1.40		4.1	3.8	
		26	Juliace	1.0	22.0	26.6 28.5	20.5	7.03 6.87	7.04	6.95	95.2 93.7	33.3	1.40 1.66	1.40		3.3 7.9	5.0	ł
08/06/24	13:21:12		Middle	8.5	22.6	28.5	28.5	6.83	6.85		93.0	93.4	1.69	1.68	1.68	6.5	7.2	5.5
		/ Cloudy	Bottom	15.9	22.3	29.7 29.7	29.7	6.66 6.64	6.65	6.65	91.0	90.9	1.94	1.96		5.8 5.5	5.7	
			Surface	1.0	23.4	14.6	14.6	6.83	6.82		87.2	87.1	1.15	1.16		6.3	4.9	
44/00/04	10:11:50	29	NAI el ell e	40.0	00.0	14.6 25.1	05.4	6.80 6.33	0.04	6.56	86.9 85.0	04.0	1.16 1.42	4.40	4.05	3.5 3.1	0.0	
11/06/24	16:11:53	/ Cloudy	Middle	10.0	22.8	25.1 29.0	25.1	6.29 6.20	6.31		84.5 84.8	84.8	1.43 1.47	1.43	1.35	4.4 2.0	3.8	3.8
		/ Cloudy	Bottom	19.4	22.6	29.0	29.0	6.16	6.18	6.18	84.3	84.6	1.49	1.48		3.4	2.7	
		29	Surface	1.0	23.4	24.3 24.3	24.3	6.75 6.74	6.75		91.2 90.9	91.1	0.98 0.96	0.97		5.3 6.8	6.1	
13/05/24	17:01:09		Middle	9.2	23.0	28.1	28.1	6.39	6.38	6.56	87.6	87.4	1.19	1.21	1.31	2.8	3.4	4.4
		/ Cloudy				28.1 29.3		6.36 6.22			87.2 85.3		1.22 1.75			4.0 3.5		ł
		,	Bottom	17.2	22.6	29.4	29.3	6.21	6.22	6.22	85.1	85.2	1.77	1.76		4.0	3.8	
		28	Surface	1.0	23.5	10.9	10.9	7.38 7.37	7.38	0.70	92.4 92.3	92.4	1.83	1.84		3.1	3.4	
15/06/24	8:04:47		Middle	9.4	22.9	26.1 26.2	26.1	6.20	6.19	6.78	83.9	83.8	0.98	0.99	1.81	4.6 2.7	3.7	3.3
		/ Rain	Bottom	17.6	22.6	30.2	30.2	6.18 5.96	5.96	5.96	83.6 82.1	82.1	1.00 2.57	2.60		3.4	2.8	†
			Bottom	17.0		30.3 21.4		5.95 6.88	0.50	0.50	82.0 91.7	02.1	2.63 1.36	2.00		2.2 5.3	2.0	
		30	Surface	1.0	23.6	21.4	21.4	6.85	6.87	6.72	91.3	91.5	1.38	1.37		5.2	5.3	
17/06/24	9:18:22		Middle	9.0	23.1	28.5 28.6	28.5	6.60 6.55	6.58		90.9	90.6	1.78	1.80	1.84	5.0 5.2	5.1	4.4
		/ Cloudy	Bottom	17.1	22.8	30.3	30.3	6.17	6.15	6.15	85.4	85.1	2.35	2.36		2.4	2.8	Ì
			Surface	1.0	24.1	30.3 8.4	8.4	6.13 7.25	7.25		84.8 90.5	90.5	2.36 2.68	2.66		3.1 2.7	3.2	
		30	Surface	1.0	24.1	8.4 27.4	0.4	7.24 5.78	7.25	6.50	90.4 79.4	90.5	2.64 2.11	2.00		3.6 2.8	3.2	ļ
19/06/24	10:44:11		Middle	9.4	23.3	27.5	27.5	5.73	5.76		78.7	79.1	2.13	2.12	2.15	4.5	3.7	2.6
		/ Fine	Bottom	17.8	22.7	31.1 31.1	31.1	5.47 5.46	5.47	5.47	75.9 75.8	75.9	1.65	1.66		1.2	1.1	
			Surface	1.0	24.7	13.7	13.7	6.99	6.98		90.9	90.7	1.66	1.68		4.0	3.7	
04/00/04	10.15.00	30	NAI el ell e	0.5	04.0	13.7 27.7	07.7	6.96 6.44	0.44	6.71	90.4 89.6	00.0	1.69 2.01	0.00	4.00	3.4 4.1	4.5	
21/06/24	12:15:38	/ Fine	Middle	9.5	24.0	27.7 30.9	27.7	6.43 5.98	6.44		89.5 83.8	89.6	2.03 2.26	2.02	1.99	4.9 6.7	4.5	5.0
		/ Fille	Bottom	18.0	23.3	30.9	30.9	5.95	5.97	5.97	83.2	83.5	2.27	2.27		6.6	6.7	
		31	Surface	1.0	24.9	25.7 25.7	25.7	7.06 7.02	7.04		98.7 98.1	98.4	1.26 1.28	1.27		5.7 3.9	4.8	
24/06/24	14:13:32	<u> </u>	Middle	9.0	24.2	29.7	29.7	6.33	6.33	6.68	89.5	89.4	1.47	1.48	1.48	5.3	5.7	5.1
		/ Fine				29.8 30.8		6.32 6.07			89.3 85.0		1.49 1.68			6.1		+
			Bottom	16.8	23.3	30.9	30.9	6.03	6.05	6.05	84.3	84.7	1.69	1.69		3.6	4.8	
		30	Surface	1.0	24.9	27.9 27.9	27.9	7.04	7.04	6.05	99.7	99.5	1.20	1.19		3.5 4.5	4.0	
26/06/24	15:43:42		Middle	8.6	24.5	29.7	29.7	6.68	6.67	6.85	94.9	94.6	1.36	1.37	1.39	2.8	3.0	3.2
		/ Fine	Bottom	16.2	23.6	29.8 30.4	30.4	6.65 6.33	6.32	6.32	94.3 88.9	88.8	1.37 1.62	1.63	†	3.1	2.8	t
			DOMOIII	10.2		30.5 13.5	50.4	6.31 6.33	0.02	0.02	88.6 82.0	30.0	1.63 0.44	1.03		2.4	2.0	<u> </u>
		31	Surface	1.0	24.5	13.7	13.6	6.30	6.32	5.71	81.7	81.9	0.42	0.43		3.0	3.2	<u> </u>
28/06/24	17:05:26		Middle	8.8	22.9	23.9 23.9	23.9	5.13 5.07	5.10		68.5 67.7	68.1	0.65 0.60	0.63	0.69	3.0	3.0	3.0
		/ Fine	Bottom	16.7	22.4	27.3	27.3	4.42	4.42	4.42	59.7	59.6	1.02	1.01	1	2.3	2.8	1
						27.3		4.41	1]	59.4	1	0.99			3.2		<u> </u>

Monitoring Station : TM-FM2



Monitorin	.9 01441101	Ambient	TM-FM:	ng Depth	Temp	Salini	ty (ppt)	Dissolv	red Oxygen	(mg/L)		d Oxygen tion (%)	Tu	ırbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Time	Temp (°C) / Weather Condition		n)	(°C)	Value	Average	Value	Average	Depth-	Value	Average	Value	Average	Depth-	Value	Average	Depth-
		28	Surface	1.0	22.9	16.2 16.3	16.3	7.65 7.62	7.64	average	97.6 97.3	97.5	1.55	1.53	average	1.7	1.7	average
02/06/24	9:36:02	20	Middle	7.9	22.7	23.2	23.2	6.75	6.75	7.19	89.4	89.4	1.77	1.82	1.92	1.3	1.4	1.5
02/00/24	9.30.02	/ Fine	ivildule	7.5	22.1	23.3 28.0	23.2	6.74 6.30	0.75		89.3 85.5	05.4	1.87 2.37	1.02	1.52	1.4	1.4	1.5
		/ Fille	Bottom	15.0	22.4	28.1	28.1	6.25	6.28	6.28	84.9	85.2	2.44	2.41		1.5	1.3	
		24	Surface	1.0	22.5	23.9 23.9	23.9	6.82 6.79	6.81		90.4 90.1	90.3	1.28	1.29		2.4 3.8	3.1	
04/06/24	10:40:05	24	Middle	9.7	22.5	28.9	29.0	6.53	6.52	6.66	89.2	89.1	1.55	1.56	1.51	1.9	1.5	2.2
01/00/21	10.10.00	/ Cloudy				29.0 29.3		6.51 6.46			88.9 88.4		1.56 1.62		1.01	1.0		
		, cloudy	Bottom	18.9	22.5	29.3	29.3	6.45	6.46	6.46	88.3	88.4	1.77	1.70		1.8	2.1	
		26	Surface	1.0	22.5	24.5 24.5	24.5	6.87 6.85	6.86		91.4 91.2	91.3	1.18	1.19		3.3 2.9	3.1	
06/06/24	12:51:33		Middle	8.5	22.5	28.8	28.8	6.59	6.57	6.72	89.9	89.7	1.36	1.38	1.36	4.9	4.4	3.9
		/ Cloudy	D .:	10.1	20.4	28.8 29.6	00.7	6.55 6.36	0.05	0.05	89.4 87.0	00.0	1.39 1.50			3.8 5.2	4.0	
			Bottom	16.1	22.4	29.7	29.7	6.33	6.35	6.35	86.6	86.8	1.51	1.51		3.2	4.2	
		26	Surface	1.0	22.8	26.4 26.4	26.4	6.94 6.92	6.93	0.05	93.8 93.6	93.7	1.32	1.34		5.6 3.9	4.8	
08/06/24	13:31:31		Middle	8.2	22.6	28.7	28.7	6.77	6.77	6.85	92.5	92.5	1.65	1.67	1.63	6.2	7.1	5.7
		/ Cloudy	D-#	45.0	00.0	28.7 29.5	00.5	6.76 6.59	0.50	0.50	92.4 90.0	00.0	1.68 1.88	4.00		7.9 5.9	F 4	
			Bottom	15.3	22.3	29.6	29.5	6.56	6.58	6.58	89.6	89.8	1.90	1.89		4.9	5.4	
		29	Surface	1.0	23.1	14.8 14.9	14.8	6.74 6.72	6.73	6.50	85.7 85.5	85.6	1.22	1.24		3.4	3.6	
11/06/24	15:55:59		Middle	9.9	22.6	26.8 26.8	26.8	6.28 6.27	6.28	6.50	84.8 84.7	84.8	1.43 1.45	1.44	1.54	5.8 3.6	4.7	4.3
		/ Cloudy	Bottom	18.9	22.5	29.1	29.1	6.18	6.18	6.18	84.5	84.4	1.45	1.93		4.0	4.6	
			Dottom	10.5	22.5	29.1 24.5	23.1	6.17 6.81	0.10	0.10	84.3 91.9	04.4	1.94 0.87	1.55		5.1 5.1	4.0	
		29	Surface	1.0	23.3	24.5	24.5	6.77	6.79	6.62	91.4	91.7	0.88	0.88		4.5	4.8	
13/05/24	16:49:46		Middle	8.9	23.1	28.2 28.2	28.2	6.46 6.45	6.46	0.02	88.8 88.5	88.7	1.26	1.28	1.33	5.1 3.8	4.5	5.1
		/ Cloudy	Bottom	16.9	22.6	29.5	29.5	6.35	6.34	6.34	87.1	87.0	1.84	1.83		6.0	6.1	
						29.5 12.1		6.33 7.36			86.8 92.8		1.82 2.07			6.1 2.2		
		28	Surface	1.0	23.5	12.1	12.1	7.32	7.34	6.85	92.4	92.6	2.11	2.09		2.5	2.4	
15/06/24	8:26:13		Middle	9.2	23.2	25.2 25.2	25.2	6.37 6.34	6.36		86.2 85.8	86.0	1.16	1.15	1.62	2.8 3.1	3.0	2.8
		/ Rain	Bottom	17.5	22.7	29.7	29.7	6.09	6.08	6.08	83.8	83.7	1.60	1.61		3.1	3.1	
			Ota.a.a	4.0	00.0	29.7 21.5	04.5	6.07 6.96	0.05		83.5 91.2	04.4	1.62 1.42	4.40		3.1 3.9	0.7	
		30	Surface	1.0	22.6	21.5	21.5	6.94	6.95	6.79	90.9	91.1	1.41	1.42		3.4	3.7	
17/06/24	9:36:47		Middle	8.7	23.2	28.7 28.8	28.8	6.65 6.62	6.64		91.8 91.4	91.6	1.66 1.67	1.67	1.82	6.3 4.1	5.2	4.3
		/ Cloudy	Bottom	16.2	22.8	30.2 30.2	30.2	6.29 6.26	6.28	6.28	87.0 86.5	86.8	2.38	2.39		4.6 3.6	4.1	
			Surface	1.0	24.0	8.3	8.4	7.07	7.06		88.1	88.1	2.82	2.83		2.9	2.6	
		30	Curiace	1.0	24.0	8.4 28.6	0.4	7.05 5.55	7.00	6.30	88.0 76.2	00.1	2.84 1.40	2.00		2.3	2.0	
19/06/24	10:26:35		Middle	9.8	22.9	28.7	28.6	5.53	5.54		75.9	76.1	1.42	1.41	2.00	3.8	3.2	3.0
		/ Fine	Bottom	18.8	22.8	31.0 31.1	31.0	5.39 5.38	5.39	5.39	74.9 74.8	74.9	1.76 1.75	1.76		3.4	3.3	
			Surface	1.0	24.6	13.6	13.6	7.02	7.00		91.1	90.9	1.73	1.74		3.3	3.8	
04/00/04	44,50.44	30				13.6 27.7		6.98 6.59	0.57	6.79	90.6 91.9		1.74 2.05		0.00	4.3 5.1	4.5	
21/06/24	11:58:44	/ Fin -	Middle	9.7	24.1	27.7	27.7	6.55	6.57		9.2	50.6	2.06	2.06	2.02	3.9	4.5	4.4
		/ Fine	Bottom	18.2	23.2	30.8	30.8	6.07	6.07	6.07	84.8 84.7	84.8	2.27 2.25	2.26		4.0 5.8	4.9	<u> </u>
		31	Surface	1.0	24.9	25.5 25.5	25.5	7.29 7.28	7.29		102.0 102.0	102.0	1.25 1.26	1.26		4.5 6.8	5.7	
24/06/24	13:56:43	JI	Middle	9.0	24.2	29.6	29.6	6.52	6.50	6.89	92.1	91.8	1.44	1.45	1.50	4.2	5.4	5.1
2.700/24		/ Fine				29.6 30.7		6.48 6.21			91.5 86.9		1.46 1.78		1.50	6.6 3.8		0.1
			Bottom	16.8	23.3	30.7	30.7	6.13	6.17	6.17	85.8	86.4	1.80	1.79		4.4	4.1	
		30	Surface	1.0	24.8	27.8 27.9	27.9	7.05 7.02	7.04		100.0 99.0	99.5	1.03	1.05		2.1 5.8	4.0	
26/06/24	15:25:57		Middle	8.7	24.4	29.6	29.6	6.71	6.70	6.87	95.1	94.9	1.36	1.36	1.32	3.2	3.6	3.9
		/ Fine				29.7 30.3		6.68 6.39			94.7 89.7		1.35 1.55			3.9 5.3		
			Bottom	16.5	23.6	30.3	30.3	6.36	6.38	6.38	89.4	89.6	1.59	1.57		2.9	4.1	
		31	Surface	1.0	24.5	13.4 13.5	13.4	5.83 5.87	5.85		75.4 76.1	75.8	0.41	0.42		3.0 2.4	2.7	
28/06/24	16:47:14		Middle	9.8	22.7	24.1	24.2	4.88	4.89	5.37	65.0	65.2	0.46	0.48	0.63	4.0	3.5	3.3
		/ Fine	Rottom	19.5	22.4	24.2 27.1	97.1	4.89 4.42	A 41	A A1	65.4 59.6	50.4	0.49 1.02	1.00		3.0 4.5	3.6	
			Bottom	18.5	22.4	27.2	27.1	4.39	4.41	4.41	59.1	59.4	0.98	1.00		2.6	3.6	

Monitoring Station : TM-FC2



Date	Time	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	red Oxygen	(mg/L)		d Oxygen tion (%)	Tu	ırbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Time	Weather Condition		m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		28	Surface	1.0	22.9	16.0 16.1	16.1	7.72 7.66	7.69		98.5 97.8	98.2	1.44	1.46		1.5	1.4	
02/06/24	9:54:00		Middle	7.0	22.6	23.9 23.5	23.7	6.68 6.68	6.68	7.19	88.6 88.6	88.6	1.70 1.72	1.71	1.61	1.4	1.5	1.4
		/ Fine	Bottom	13.5	22.4	27.9 27.8	27.8	6.36	6.34	6.34	86.2 85.5	85.9	1.69	1.67		1.1	1.3	
		24	Surface	1.0	22.6	23.9 23.9	23.9	6.83 6.88	6.86	6.73	90.7 91.3	91.0	1.40	1.40		2.9	3.0	
04/06/24	10:19:11		Middle	8.6	22.5	27.5 27.5	27.5	6.59 6.60	6.60	0.73	89.3 89.5	89.4	1.41	1.41	1.46	2.0 3.9	3.0	3.0
		/ Cloudy	Bottom	16.0	22.6	29.1 29.2	29.1	6.58 6.55	6.57	6.57	90.2 89.7	90.0	1.58	1.58		3.1	3.2	
		26	Surface	1.0	22.5	24.3	24.3	6.95 6.94	6.95	6.80	92.4	92.4	1.23	1.25		3.3	4.0	
06/06/24	12:32:31		Middle	8.3	22.5	28.7	28.7	6.66	6.65		90.8	90.6	1.44	1.45	1.41	4.0	4.4	3.5
		/ Cloudy	Bottom	15.6	22.5	29.5 29.5	29.5	6.42 6.40	6.41	6.41	87.9 87.6	87.8	1.52 1.56	1.54		1.9 2.5	2.2	
		26	Surface	1.0	22.8	26.5 26.5	26.5	6.85 6.84	6.85	6.77	92.7 92.6	92.7	1.30 1.29	1.30		3.6	3.5	
08/06/24	13:51:00		Middle	7.9	22.7	28.6 28.6	28.6	6.69 6.68	6.69		91.5 91.2	91.4	1.62 1.63	1.63	1.62	6.0	6.4	5.4
		/ Cloudy	Bottom	15.9	22.4	29.4 29.4	29.4	6.54 6.52	6.53	6.53	89.4 89.1	89.3	1.94 1.96	1.95		7.7 5.0	6.4	
		29	Surface	1.0	23.5	13.6 13.6	13.6	6.95 6.92	6.94	6.63	88.4 88.1	88.3	1.45 1.48	1.47		3.8 4.0	3.9	
11/06/24	15:34:01		Middle	8.5	22.8	24.9 25.0	25.0	6.32 6.31	6.32		84.8 84.7	84.8	1.14	1.15	1.43	3.4 5.4	4.4	4.3
		/ Cloudy	Bottom	16.3	22.5	28.9 28.9	28.9	6.22 6.19	6.21	6.21	84.9 84.5	84.7	1.65 1.69	1.67		6.1 3.0	4.6	
		29	Surface	1.0	23.4	24.5 24.5	24.5	6.78 6.75	6.77	6.60	91.7 91.3	91.5	0.94 0.95	0.95		4.6 5.5	5.1	
13/05/24	16:30:50		Middle	8.3	23.1	28.2 28.2	28.2	6.45 6.42	6.44		88.6 88.2	88.4	1.36 1.38	1.37	1.39	5.7 3.1	4.4	4.7
		/ Cloudy	Bottom	15.4	22.6	29.3 29.3	29.3	6.33 6.31	6.32	6.32	86.8 86.5	86.7	1.85 1.86	1.86		4.1 5.3	4.7	
		28	Surface	1.0	23.5	10.0	10.0	7.46 7.43	7.45	6.82	93.0 92.6	92.8	2.15 2.17	2.16		3.3	2.9	
15/06/24	8:39:37		Middle	8.7	22.9	24.7 24.7	24.7	6.20 6.19	6.20		83.2 83.0	83.1	1.15 1.18	1.17	1.56	3.0	3.3	3.2
		/ Rain	Bottom	16.6	22.8	28.5 28.5	28.5	6.05 6.02	6.04	6.04	82.8 82.4	82.6	1.34	1.37		3.9	3.5	
		30	Surface	1.0	23.6	21.1 21.2	21.1	6.94 6.93	6.94	6.75	92.4 92.1	92.3	1.43 1.45	1.44		5.7 5.6	5.7	
17/06/24	9:55:11		Middle	8.3	23.1	27.9 27.9	27.9	6.58 6.56	6.57		90.3 90.0	90.2	1.77	1.77	1.87	2.8 5.6	4.2	4.7
		/ Cloudy	Bottom	15.6	22.8	29.6 29.7	29.7	6.27 6.25	6.26	6.26	86.4 86.2	86.3	2.42	2.41		2.5 5.7	4.1	
		30	Surface	1.0	24.0	6.5 6.6	6.5	7.74 7.72	7.73	6.77	95.4 95.2	95.3	2.96 2.98	2.97		2.8 3.4	3.1	
19/06/24	10:09:29		Middle	8.9	23.4	24.8 26.8	25.8	5.81 5.80	5.81		78.7 79.5	79.1	1.68 1.70	1.69	2.10	3.2	3.2	3.1
		/ Fine	Bottom	16.6	22.8	30.8 30.8	30.8	5.60 5.56	5.58	5.58	77.7 77.2	77.5	1.64 1.65	1.65		3.5 2.8	3.2	
		30	Surface	1.0	24.6	13.3 13.3	13.3	7.13 7.11	7.12	6.89	92.4 92.1	92.3	1.65 1.68	1.67		6.2 4.4	5.3	
21/06/24	11:30:24		Middle	8.9	24.0	27.5 27.6	27.6	6.68 6.65	6.67		92.9 92.5	92.7	1.98 2.03	2.01	1.98	4.5 6.6	5.6	5.2
		/ Fine	Bottom	16.9	23.3	30.6 30.6	30.6	6.12 6.09	6.11	6.11	85.6 85.2	85.4	2.26 2.28	2.27		5.6 3.9	4.8	
		31	Surface	1.0	24.8	25.4 25.4	25.4	7.21 7.18	7.20	6.82	101.0	100.5	1.30	1.31		6.6 5.7	6.2	
24/06/24	13:31:03		Middle	8.4	24.2	29.5 29.5	29.5	6.45 6.43	6.44		91.0 90.7	90.9	1.49	1.50	1.52	6.7 4.2	5.5	5.3
		/ Fine	Bottom	15.9	23.4	30.7 30.7	30.7	6.14 6.12	6.13	6.13	86.0 85.6	85.8	1.74 1.75	1.75		4.3	4.3	
		30	Surface	1.0	24.9	27.9 28.0	27.9	7.11 7.08	7.10	6.92	101.0	100.5	1.12	1.13		2.4 5.6	4.0	
26/06/24	15:00:36		Middle	8.6	24.5	29.8 29.8	29.8	6.75 6.74	6.75		95.9 95.6	95.8	1.44 1.45	1.45	1.42	3.9 2.4	3.2	3.3
		/ Fine	Bottom	16.1	23.8	30.4 30.5	30.4	6.42 6.40	6.41	6.41	90.5 90.2	90.4	1.68	1.70		3.2 2.1	2.7	
		31	Surface	1.0	24.7	10.9	10.9	6.99 6.96	6.98	6.10	89.5 89.3	89.4	0.43	0.44		2.4	2.3	
28/06/24	16:33:47		Middle	8.8	22.9	23.6 23.8	23.7	5.23 5.20	5.22	30	69.7 69.4	69.6	0.67 0.68	0.68	0.77	1.4	1.7	2.5
		/ Fine	Bottom	16.6	22.5	27.0 27.2	27.1	4.53 4.51	4.52	4.52	61.2 60.7	61.0	1.18	1.19		3.3	3.5	

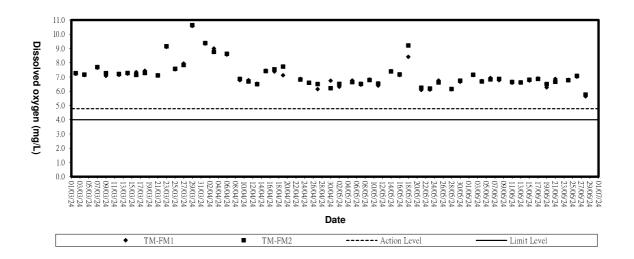


Appendix C3

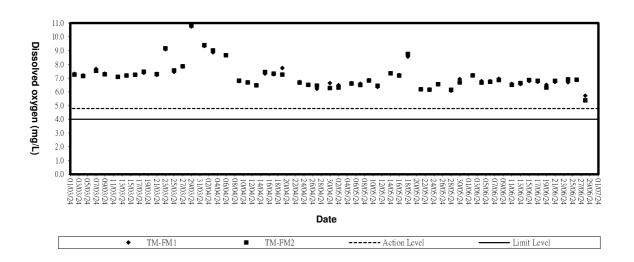
Graphical Plots of Impact Marine Water Quality Monitoring Data



Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide

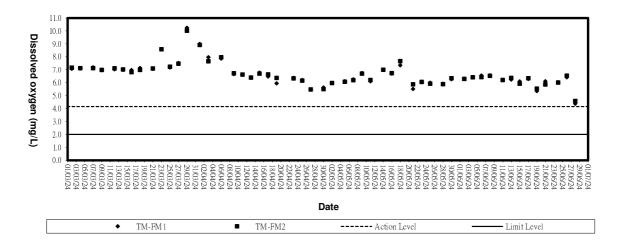


Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide

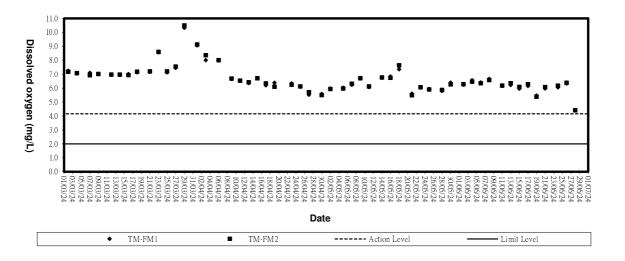




Dissolved Oxygen (Bottom) at Mid-Flood Tide

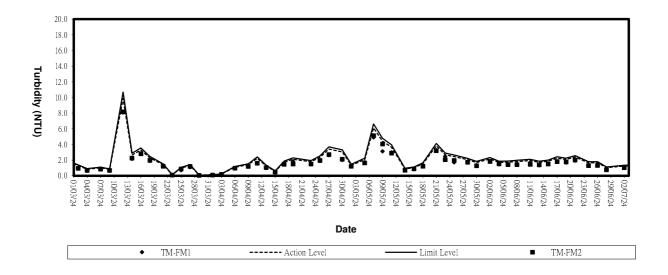


Dissolved Oxygen (Bottom) at Mid-Ebb Tide

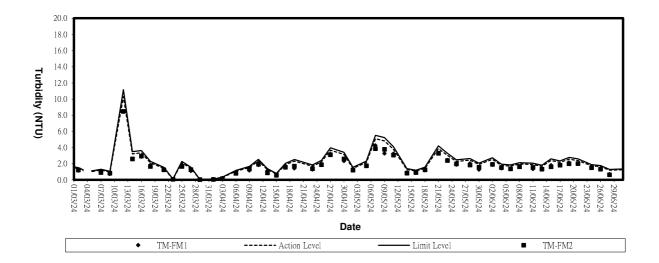




Turbidity (Depth-average) at Mid-Flood Tide

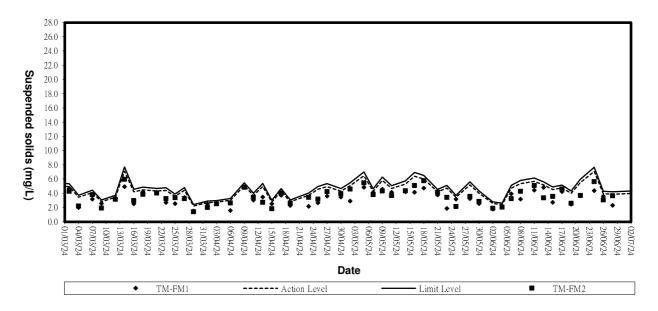


Turbidity (Depth-average) at Mid-Ebb Tide

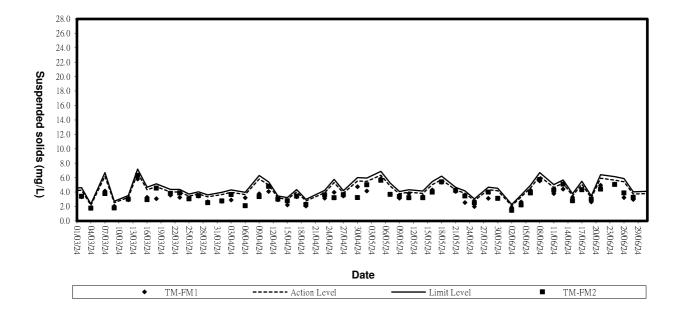




Suspended solids (Depth-average) at Mid-Flood Tide



Suspended Solids (Depth-average) at Mid-Ebb Tide





Appendix D1

Calibration Certificates for Impact Noise Monitoring Equipments



8/F Block B. Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

F: +852 2695 3944 E: etl@ets-testconsult.com W; www.ets-testconsult.com



Form Q/AS/C/02 Issue 1(1/4) [02/22]

Calibration Certificate

Certificate No.

CSA38446

Page

of

2

Information Provided by Customer

Customer

: ETS - Testconsult Limited

Address

8/F., Block B, Veristrong Industrial Centre, 34 - 36 Au Pui Wan Street, Fotan, Shatin, Hong Kong

Information of Unit-under-test (UUT)

Description

Sound Level Calibrator

Manufacturer

RION

Equipment I.D.

ET/EN/002/01

Type

NC-73

Serial No.

10196943

Laboratory Information

Lab. Ref. No.

Q/CAL/23/9463/I

Procedure

: CQS/002/A

Date of Calibration

23-Nov-2023

Date of Receipt

15-Nov-2023

Date of Issue

24-Nov-2023

Calibration Location

Calibration Laboratory

Calibration Condition

Ambient Temperature : (20 ± 3) °C

Relative Humidity

: (50±20) %

Stabilizing Time

: 30 minutes

Sampling

: As received

Ambient Pressure

: (1000 ± 50) hPa

Reference equipment

- Multi-function sound calibrator, ET/2801/01
- Measuring Amplifier, ET/2702/01/01
- Signal generator, ET/2503/01
- Reference Oscilloscope, ET/2502/01

Calibration specification

- To perform the calibration of sound level calibrator.

Calibration result

- The results are detailed on the subsequent pages.

Remarks

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measureed at the time of test & any uncertainties quoted will not include allowance for the equipment long term drift, varifications with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement

Calibrated By : Tony MA (Technician)

CHAN Chi Wai



8/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com



Calibration Certificate

Certificate No. : CSA38446

Page : 2 of 2

Calibration Result:

1. Measured Sound Pressure Level:

Nominal Frequency	Nominal Output	Measured Output (dB)	Expanded	Coverage
(Hz)	Sound Pressure (dB)		Uncertatiny (dB)	Factor
1000	94.0	93.9	0.13	2.0

2. Actual Output Frequency:

Nominal Frequency	Nominal Output	Measured Output (Hz)	Expanded	Coverage
(Hz)	Sound Pressure (dB)		Uncertatiny (Hz)	Factor
1000	94.0	980.783	0.057	2.0

Remark:

- The uncertainty quoted is based on 95 % confidence level.
- Measured output are mean of three measurements.

End of certificate



8/F Block B, Veristrong Industrial Centre, 34-36 Au Pul Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com



Form Q/AS/C/01 Issue 1(1/7) [09/21]

Calibration Certificate

Certificate No.

CSA34546

3

Information Provided by Customer

: ETS - Testconsult Limited

Address

8/F., Block B, Veristrong Industrial Centre, 34 - 36 Au Pui Wan Street, Fotan, Shatin, Hong Kong

Information of Unit-under-test (UUT)

	Sound Level Meter	Microphone	Pre-amplifier
Manufacturer	RION	RION	RION
Туре	NL-52	UC-59	NH-25
Equipment I.D. no.	ET/EN/003/17	2	
Serial No.	00264519	03558	64644
Adaptors used	4		
Resolution	0.1 dB	4	

Laboratory Information

Lab. Ref. No.

Q/CAL/23/5141/I

Procedure

CQS/001/A

Date of Calibration

28-Jun-2023

Date of Receipt

21-Jun-2023

Date of Issue

28-Jun-2023

Calibration Location

Calibration Laboratory

Calibration Condition

Ambient Temperature : (20 ± 3) °C

: 30 minutes

Relative Humidity

(50 ± 20) %

Stabilizing Time

; (1000 ± 50) hPa

Sampling

As received

Ambient Pressure

Reference equipment

- Multi-function sound calibrator, ET/2801/01
- Signal generator, ET/2503/01

Calibration specification

To perform the calibration of linearity and frequency response by multi-function sound calibrator.

Calibration result

- The results are detailed on the subsequent pages.

Remarks

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measureed at the time of test & any uncertainties quoted will not include allowance for the equipment long term drift, varifications with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement

Calibrated By:

Tony MA (Technician) Approved By:

CHAN Chi Wai



8/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com



Calibration Certificate

Certificate No. : CSA34546

Page : 2 of 3

Calibration Result:

1 Reference Sound Pressure Level : (Unit in: dB)

Ra	nge / Mode		Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor
	Self-cal	Before	94.0		93.7	-0.3	0.13	2.0
A-Weighting	Range	30 to 130	104.0	1	103.7	-0.3	0.13	2.0
	Mode	Fast	114.0		113.7	-0.3	0.13	2.0
	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
A 144-1-515	Mode	Fast	114.0		114.1	0.1	0.13	2.0
A-Weighting	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.1	0.1	0.13	2.0
	Self-cal	¥.	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
0.141-1-1-1	Mode	Fast	114.0		114.0	0.0	0.13	2.0
C-Weighting	Self-cal	-	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
	Self-cal	*	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
7 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Mode	Fast	114.0		114.1	0.1	0.13	2.0
Z-Weighting	Self-cal	21	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0

Remark:

- The uncertainty quoted is based on 95 % confidence level.
- UUT reading are mean of three measurements.
- Deviation = UUT Reading Reference Level
- Laboratory reference multi-function sound calibrator was used to adjust the "Self cal" reading of UUT.



東業德勤測試顧問有限公司 Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan. Hong Kong ETS-TESTCONSULT LTD.

8/F Block B, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com



Calibration Certificate

Certificate No.

CSA34546

Page

3 of 3

Calibration Result:

Acoustic Sensitivity and Frequency Response:

2 Frequency Response A-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
			31.5	54.6	40.5	-14.1	0.29	2.6
			63	67.8	57.2	-10.6	0.22	2,3
		8	125	77.9	72.2	-5.7	0.13	2.0
			250	85.4	83,6	-1.8	0.12	2.0
		8	500	90,8	90.9	0.1	0.12	2.0
30 to 130	Fast	94	1000 (Ref.)	94.0	94.0	0,0	0.13	2.0
			2000	95.1	94.0	-1.1	0.13	2.0
			4000	94,9	92,3	-2.6	0.13	2.0
V			8000	92.9	85.4	-7.5	0.14	2.0
- 0			12500	89.7	76.0	-13,7	0.14	2.0
			16000	87.5	71.6	-15.9	0.16	2.0

Frequency Response C-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
			31.5	91.0	74.6	-16.4	0.22	2,3
			63	93.2	82,4	-10.8	0.15	2.0
		1	125	93.8	88.1	-5.7	0.15	2.0
			250	94.0	92.2	-1.8	0.14	2.0
			500	94.0	94.1	0.1	0.12	2.0
30 to 130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0.13	2.0
1			2000	93.7	92.6	-1.1	0.13	2.0
			4000	93.1	90.5	-2,6	0.13	2.0
			8000	91.0	83.5	-7.5	0.14	2.0
			12500	87.8	74.1	-13.7	0.16	2.0
			16000	85.6	69.8	-15.8	0,20	2.2

Frequency Response Z-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
			31.5	94.0	77.6	-16.4	0.14	2.0
			63	94.0	83.2	-10.8	0.15	2.0
			125	94.0	88,3	-5.7	0.13	2.0
			250	94.0	92.2	-1.8	0.14	2.0
			500	94.0	94.0	0.0	0.12	2.0
30 to 130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0.13	2.0
			2000	94.0	92.8	-1.2	0.13	2.0
			4000	94.0	91.3	-2.7	0.13	2.0
			8000	94.0	86.4	-7.6	0.14	2.0
			12500	94.0	80.7	-13.3	0.14	2.0
			16000	94.0	79.4	-14.6	0.14	2.0

Remark:

- Signal level at 1000 Hz is set as indication of reference sound pressure level.
- The uncertainty quoted is based on 95 % confidence level with coverage factor k=2,0.
- UUT reading are mean of three measurements.
- Deviation = UUT Reading Reference Level



8/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com



Form Q/AS/C/01 Issue 1(1/7) [09/21]

Calibration Certificate

Certificate No.

: CSA42566

3

Information Provided by Customer

ETS - TESTCONSULT LIMITED

Address

8/F., Block B, Veristrong Industrial Centre, 34 - 36 Au Pui Wan Street, Fotan, Shatin, Hong Kong

Information of Unit-under-test (UUT)

:

	Sound Level Meter	Microphone	Pre-amplifier	Sound Calibrator
Manufacturer	RION	RION		N/A
Туре	NL-52	UC-59	NH-25	*
Equipment I.D. no.	ET/EN/003/18	ã,	W.	14 N
Serial No.	00264520	09668	64646	140
Adaptors used			20	(a)
Resolution	0.1 dB	3.	9	(%)

Laboratory Information

Lab. Ref. No.

Q/CAL/24/2856/I

Procedure

: CQS/001/A

Date of Calibration

18-Apr-2024

Date of Receipt

: 11-Apr-2024

Date of Issue

19-Apr-2024

Calibration Location

: Calibration Laboratory

Calibration Condition

Ambient Temperature : (20 ± 3) °C

Relative Humidity

(50 ± 20) %

Stabilizing Time

: 30 minutes

Sampling

: As received

Ambient Pressure

: (1000 ± 50) hPa

Reference equipment

- Multi-function sound calibrator, ET/2801/01
- Signal generator, ET/2503/01

Calibration specification

To perform the calibration of linearity and frequency response by multi-function sound calibrator.

Calibration result

- The results are detailed on the subsequent pages.

Remarks

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measureed at the time of test & any uncertainties quoted will not include allowance for the equipment long term drift, varifications with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measuremen

Calibrated By :

Tommy TAM (Technician) Approved By:

CHAN Chi Wai



8/F Block B, Verlstrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com



a.V

Calibration Certificate

Certificate No. CSA42566

Page 2 of 3

Form Q/AS/C/01 Issue 1(2/7) [09/21]

Calibration Result:

1 Reference Sound Pressure Level : (Unit in: dB)

Ra	nge / Mode		Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor
	Self-cal		94.0		93.9	-0.1	0.13	2.0
	Range	30 to 130	104.0	1	104.0	0.0	0.13	2.0
	Mode	Fast	114.0		114.0	0.0	0.13	2.0
A-Weighting	Self-cal	-	94.0		93.9	-0.1	0.13	2.0
	Range	30 to 130	104.0	1	104.0	0.0	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
	Self-cal	-	94.0	1	93.9	-0.1	0.13	2.0
	Range	30 to 130	104.0		104.0	0.0	0.13	2.0
0.144-1-44	Mode	Fast	114.0		114.0	0.0	0.13	2.0
C-Weighting	Self-cal	¥	94.0		93.9	-0.1	0.13	2.0
	Range	30 to 130	104.0	1	104.0	0.0	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
	Self-cal		94.0		93.9	-0.1	0.13	2.0
	Range	30 to 130	104.0	1	103.9	-0.1	0.13	2.0
Z-Weighting	Mode	Fast	114.0		113.9	-0.1	0.13	2.0
	Self-cal		94.0		93.9	-0.1	0.13	2.0
	Range	30 to 130	104.0	1	103.9	-0.1	0.13	2.0
	Mode	Slow	114.0		113.9	-0.1	0.13	2.0

Remark:

- The uncertainty quoted is based on 95 % confidence level.
- UUT reading are mean of three measurements.
- Deviation = UUT Reading Reference Level



8/F Block B, Verlstrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com



Calibration Certificate

Form Q/AS/C/01 Issue 1(3/7) [09/21]

Certificate No. CSA42566

: 3 of 3

Calibration Result:

Acoustic Sensitivity and Frequency Response:

2. Frequency Response A-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification
			31,5	54.6	54.8	0.2	-39.4 +/- 2.0
		lì	63	67.8	67.9	0.1	-26.2 +/- 1.5
		1	125	77.9	77.9	0.0	-16.1 +/- 1.5
		1 1	250	85.4	85.4	0.0	-8.6 +/- 1.4
		1	500	90.8	90.7	-0.1	-3.2 +/- 1.4
30 to 130	Fast	94	1000 (Ref.)	94.0	93.9	-0.1	0 +/- 1.1
		lì	2000	95,1	95.1	0.0	+1.2 +/- 1.6
		1	4000	94.9	95.0	0,1	+1.0 +/- 1.6
		lì	8000	92.9	93.2	0.3	-1.1 (+2.1 ; - 3.1)
			12500	89.7	88.4	-1,3	-4,3 (+3,0 ; -6.0)
		Ì	16000	87.5	84.8	-2.7	-6.6 (+3.5 ; -17.0)

3 Frequency Response C-Weighting : (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification
			31.5	91.0	90,9	-0.1	-3.0 +/- 2.0
	2		63	93.2	93.2	0.0	-0.8 +/- 1.5
			125	93.8	93.9	0.1	-0.2 +/- 1,5
			250	94.0	94.0	0.0	0.0 +/- 1.4
			500	94,0	94.0	0.0	0.0 +/- 1.4
30 to 130	Fast	94	1000 (Ref.)	94.0	93.9	-0,1	0 +/- 1.1
			2000	93.7	93.7	0,0	-0.2 +/- 1.6
			4000	93.1	93.2	0.1	-0,8 +/- 1.6
			8000	91,0	91,3	0,3	-3.0 (+2.1 ; -3.1)
			12500	87.8	86.5	-1.3	-6.2 (+3.0 ; -6.0)
			16000	85,6	82.8	-2.8	-8.5 (+3.5 ; -17.0)

4 Frequency Response Z-Weighting : (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification
			31.5	94.0	94.0	0.0	0.0 +/- 2.0
		*:	63	94.0	94.1	0.1	0.0 +/- 1.5
			125	94.0	94.0	0.0	0.0 +/- 1.5
100			250	94.0	94.0	0.0	0.0 +/- 1.4
			500	94.0	93,9	-0.1	0.0 +/- 1.4
30 to 130	Fast	94	1000 (Ref.)	94.0	93.9	-0.1	0 +/- 1.1
			2000	94.0	93,8	-0.2	0.0 +/- 1.6
			4000	94,0	94.0	0.0	0.0 +/- 1.6
		1	8000	94.0	94.2	0.2	0.0 (+2.1 ; -3.1)
			12500	94.0	93,0	-1,0	0.0 (+3,0 ; -6.0)
			16000	94.0	92.5	-1,5	0,0 (+3.5 ; -17.0)

-xheildeg gil	certainty or measurem	CITE.		
	Range (Hz)	(dB)	Range (Hz)	(dB)
	31.5	0.15	2000	0,13
1	63	0.15	4000	0.13
04.45	125	0.15	8000	0.14
94 dB	250	0.12	12500	0.14
ì	500	0.12	16000	0.14
- 1	1000	0.13		

Remark:

- Manufacturer specification:
- IEC 61672 class 1
- Signal level at 1000 Hz is set as indication of reference sound pressure level.
- The uncertainty quoted is based on 95 % confidence level with coverage factor k=2.0,
- UUT reading are mean of three measurements,
- Deviation = UUT Reading Reference Level



Appendix D2 Impact Noise Monitoring Results



Day-time Noise Monitoring`

Monitoring Location: TM-RN1 *

Data	Start Sampling	Noi	se Level dB	(A)	Wind	Major Noise	Weather
Date	Time (hh:mm)	Leq(30min)	L ₁₀	L ₉₀	Speed (m/s)	Sources	Condition
4/6/2024	9:15	56.4	57.9	53.4	0.2	General site work	Cloudy
6/6/2024	9:10	57.7	59.2	53.4	0.2	General site work	Rain
11/6/2024	9:35	57.4	58.8	55.5	0.2	General site work	Cloudy
13/6/2024	9:30	56.7	58.5	54.1	0.2	General site work	Sunny
18/6/2024	9:30	56.7	57.2	54.1	0.2	General site work	Sunny
20/6/2024	11:00	56.8	57.9	55.2	0.2	General site work	Sunny
25/6/2024	13:50	56.8	58.5	54.1	0.2	General site work	Sunny
27/6/2024	9:30	57.7	59.2	54.3	0.2	General site work	Fine

Remark: Since Lands Department did not approve us to enter their own area where the noise monitoring stations TM-N1 located due to the security, noise monitoring was carried out at noise monitoring stations TM-RN1 (refer to the figure 3 attached) in this reporting month.

Monitoring Location: TM-RN2 *

Data	Start Sampling	Nois	se Level dB	s (A)	Wind Speed	Major Noise Sources	Weather Condition
Date	Time (hh:mm)	L _{eq(30min)}	L ₁₀	L ₉₀	(m/s)		
4/6/2024	9:20	57.6	59.1	54.8	0.2	General site work	Cloudy
6/6/2024	9:15	56.5	58.3	54.1	0.2	General site work	Rain
11/6/2024	9:40	58.2	59.6	56.1	0.2	General site work	Cloudy
13/6/2024	9:35	57.4	58.1	54.5	0.2	General site work	Sunny
18/6/2024	9:35	57.5	58.9	54.6	0.2	General site work	Sunny
20/6/2024	11:05	54.5	58.3	54.4	0.2	General site work	Sunny
25/6/2024	13:55	57.3	58.0	55.2	0.2	General site work	Sunny
27/6/2024	9:35	58.2	59.8	55.1	0.2	General site work	Fine

Remark: Since Lands Department did not approve us to enter their own area where the noise monitoring stations TM-N2 located due to the security, noise monitoring was carried out at noise monitoring stations TM-RN2 (refer to the figure 3 attached) in this reporting month.

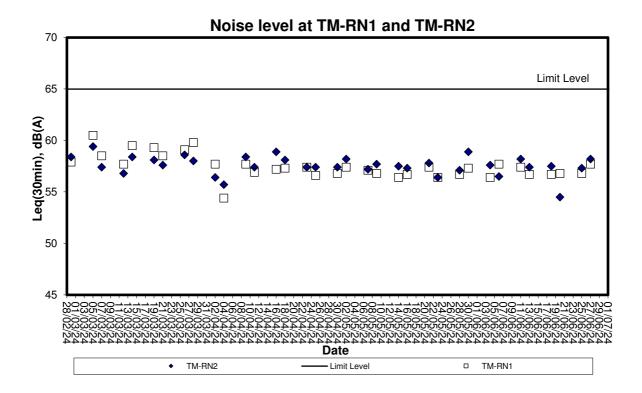


Appendix D3

Graphical Plots of Impact Noise Monitoring Data



Noise Monitoring (Day-time)





Appendix E Weather Condition

Daily Extract of Meteorological Observations , June 2024 - Tuen Mun

	Mean		victeoroit		Mean	Mean	Total	Prevailing	Mean
		Λ;	r Temperatu	Iro					
	Pressure	Al	ir remperati	ire	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	(km/h)
		Daily	(deg.C)	Daily					
		Max	(acg.c)	Min					
		(deg. C)		(deg. C)					
1	1007.8	29.8	27.1	25.6	24.9	88	54.2	50	10.1
2	1007.3	30.3	28	25.8	25	84	3.2	70	33.8
3	1008.4	28.2	25.3	23.8	23.6	91	8.6	80	38.4
4	1009.9	24.9	24.1	22.9	21.5	86	2.9	90	28.3
5	1010.2	25.4	24.4	23.4	22.7	90	8.5	60	11
6	1009.4	28.7	26.5	24.7	24.4	88	Trace	160	5.3
7	1007.9	26.6	25.6	25.1	24.2	92	1.6	70	11.3
8	1006.9	28.9	26.3	24.8	24.5	90	6.8	50	15.3
9	1008.3	27.5	26.6	25.3	25.3	93	33.5	70	37.9
10	1008.9	30.7	28.5	26.5	25.6	85	0.2	80	34.5
11	1008.1	30.8	29.1	28.2	26.1	84	0.6	50	17.3
12	1006.9	31.8	29.5	28.1	26.4	83	8.3	40	5.6
13	1004.7	32	29.9	28.7	26.8	83	4.9	80	20.5
14	1004.1	30.4	29.7	27.7	26.4	82	32	80	26.4
15	1004.6	30	28.2	25	25.6	86	28.3	70	17.4
16	1006.2	30.9	28.8	26.1	26.1	86	17.5	80	33.8
17	1006.6	32.7	30.1	28.6	26.2	80	Trace	60	19.6
18	1005.9	32.1	29.9	27.6	26.3	81	4.6	70	23.7
19	1005.7	32.2	30	28	26.2	80	9.4	80	31.8
20	1005.6	33	30	27.3	26.5	82	5	70	42.2
21	1006	34	30.8	28.7	25.9	76	-	80	18.3
22	1006.4	33.8	31.2	29.5	26.3	75	-	50	8
23	1006.7	33.9	30.5	27.9	26.1	78	4.7	60	15.8
24	1007.3	33.4	30.8	28.8	26.2	77	0.3	50	14.9
25	1009.2	33.2	30.1	26.5	26	79	19	80	13.9
26	1011.3	34	30.4	27.9	26.2	79	-	40	8.2
27	1010.9	34.4	30.7	28.4	26.5	79	1.4	210	23.4
28	1008.9	34.2	31	28.9	26	75	1.6	70	15.1
29	1007.6	31.5	29.2	26.8	25.8	82	15.5	70	51.1
30	1006.6	32	30.3	27.7	26.3	79	8.7	60	41.8

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected



Appendix F Event-Action Plans

-				dia l		ru dial
	Contractor		Rectify any unacceptable practise Amend working methods if appropriate	Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate	of moiton of cipoment of the	avoid further exceedance action to avoid further exceedance Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate.
			. 2	-, -, -, -, -, -, -, -, -, -, -, -, -, -,	ļ	÷ 2, €, 4,
ITY EXCEEDANCE	0		1. Notify Contractor	Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures property implemented		 Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented
UAL	-			e e ible		e sible
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE	ACTION	IC(E)	Check monitoring data submitted by the ET	Check monitoring data submitted by the ET Leader Check the Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures	LIMIT LEVEL	Check monitoring data submitted by the ET Leader Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures
EVE			- ' α'	÷ 5.6. 4. 7.		∸. ડાધ, 4. rž
		ET Leader	Identify source, investigate the causes of exceedance and propose remedial measures. Inform ER, IC(E) and Contractor. Repeat measurement to confirm finding. Increase monitoring frequency to daily	Identify source, investigate the causes of exceedance and propose remedial measures Inform IC(E) and Contractor Repeat measurements to confirm finding Increase monitoring frequency to daily biscuss with IC(E) and Contractor on remedial actions If exceedance continues, arrange meeting with IC(E) and ER. If exceedance stops, cease additional monitoring		 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, Contractor and EPD Repeat measurement to confirm finding Increase monitoring frequency to daily horses the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results
			- 4. 4.		-	
EVENT			for one sample	2. Exceedance for two or more consecutive samples		1, Exceedance for one sample
ш.				1		1

EVENT		EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE	LITY EXCEEDANCE		
'93		ACTION			
	ET Leader	IC(E)	ER	Contractor	
2. Exceedance	1. Identify source, investigate the causes	1. Discuss amongst ER, ET and Contractor on	1. Confirm receipt of notification	1. Take immediate action to	<u>۔۔</u>
for two or	of exceedance and propose remedial	the potential remedial actions	of failure in writing		Ses
more	measures	2. Review Contractor's remedial actions	2. Notify Contractor	2. Submit proposals for remedial	medial
consecutive	2. Notify IC(E), ER, EPD and Contractor	whenever necessary to assure their	In consultation with the IC(E),	actions to IC(E) within 3	
sambles	3. Repeat measurement to confirm	effectiveness and advise the ER accordingly	agree with the Contractor on	working days of notification	tion
•	findina	3. Supervise the implementation of remedial	the remedial measures to be	Implement the agreed	
	4. Increase monitoring frequency to daily	measures	implemented	proposals	-
	5. Carry out analysis of contractor's		Ensure remedial measures	Resubmit proposals if	,
	working procedures to determine		are properly implemented	problem still not under control	control
	possible mitigation to be implemented		5. If exceedances continues,	Stop the relevant activity of	y of
	6. Arrange meeting with IC(E) and ER to		consider what portion of the	works as determined by the	, the
	_		work is responsible and	ER until the exceedance is	si e
	taken		instruct the Contractor to stop	abated	
-	7. Assess effectiveness of Contractor's		that portion of work until the	•	
	remedial actions and keep IC(E), EPD		exceedance is abated		
<u>™</u>	and ER informed of the results				
	8. If exceedance stops, cease additional				
	monitoring				

				EVENT/ACTION PLAN FOR NOISE EXCEEDANCE	N N	OISE EXCEEDANCE			
EVENT				ACTION	×				—
		ET Leader		IC(E)		ER		Contractor	-,
Action Level	+ ci € 4 €	Notify the IC(E) and the Contractor. Carry out investigation. Report the results of investigation to the IC(E) and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness	÷ 2, 6,	Review the analysed results submitted by the ET. Review the proposed remedial measures by the Contractor and advise the ER accordingly. Supervise the implementation of remedial measures.	÷ 2.6. 4.	Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented.	- 2	Submit noise mitigation proposals to IC(E). Implement noise mitigation proposals.	· · · · · · · · · · · · · · · · · · ·
Limit	<u>-</u>		<u>~-</u>	Discuss amongst the ER, the ET	-	Confirm receipt of notification of		Take immediate action to avoid	
Level				Leader and the Contractor on the	(failure in writing.		further exceedance	
	<u>د</u> ز	-		potential remedial actions.	N (Notify the Contractor.	N.	Submit proposals for remedial	
	ઌ૽	Repeat measurement to confirm	ς;	Review the Contractor's remedial	က်	Require the Contractor to propose		actions to IC(E) Within 3	
in in the second		findings.		actions whenever necessary to		remedial measures for the	•	working days of notification.	
	4.			assure their effectiveness and		analysed noise problem.	က်	Implement the agreed	
	က်		•	advise the ER accordingly.	4.	Ensure remedial measures are	_	proposals.	
	-	working procedures to determine			ĸ	properly Implemented. If exceedances continue consider	i	still not under control.	
		possible mitigation to be implemented		remedial measures.	; 	what activity of the work is	က်	Stop the relevant activity of	
	ဖ်					responsible and instruct the		works as determined by the ER	
		EPD the causes & actions taken for				Contractor to stop that activity of		until the exceedances is	٠
	Ų-N-I					work until the exceedances is		abated.	
	۲.	-				abated.			
		Contractor's remedial actions and							
		keep the IC(E), the EPD and the							
		_							
	œί								
		construction works stops, cease							
	_	additional monitoring							1

Event		EVENT AND	TA	ND ACTION PLAN FOR W	ATI	ACTION PLAN FOR WATER QUALITY EXCEEDANCE	'n	
×				ACTION	z			
		ET Leader	L	Contractor		ER		IEC
Action level	-	Identify source(s) of impact:	-:	Notify the ER and IEC in writing	<u>-</u> :	Notify EPD and other relevant	-	Check monitoring data
heing exceeded	۲			within 24 hours of identification of	,	governmental agencies in writing		submitted by ET
hy one	i			exceedance		within 24 hours of the	2	Confirm ET assessment if
sampling day	~	Notify Contractor in writing within	2	Rectify unacceptable practice;		Identification of the exceedance		exceedance is due / not due
(a) 8da	; 	24 hours of identification of the	က	Check all plant and equipment;	7	Discuss with IEC, ET and		to the works
		exceedance	4	Submit investigation report to IEC		Contractor on the proposed	က	Discuss with ET, ER and
	4			and ER within 3 working days of		mitigation measures;		Contractor on the mitigation
	:			the identification of an	က	Require contractor to propose		measures
		working methods:		exceedance		remedial measures for the	4.	Review contractor's
	יכ		က်	Consider changes of working		analysed problem if related to the		mitigation measures
	<u>د</u>			method if exceedance is due to		construction works		whenever necessary to
,	; 			the construction works	4.	Ensure remedial measures are		ensure their effectiveness
.		days of identification of	6.	Discuss with ET, IEC and ER and		properly implemented		and advise the ER
		exceedance and advise		propose mitigation measures to	<u>ئ</u>	Assess the effectiveness of the		accordingly
		contractor if exceedance is due to		IEC and ER if exceedance is due		mitigation measure	വ	
····		contractor's construction works		to the construction works within 4				implementation of mitigation
	7.			working days of identification of	_			measures
<u>م</u> رجعو		Contractor if exceedance is due		an exceedance				
		to the construction works within 4	7.	Implement the agreed mitigation				
		working days		measures within reasonable time				
	<u>∞</u>	Repeat measurement on next day		scale				
		of exceedance if exceedance is						
		due to the construction works			_		_	

L

e.

ŗ

.-. :_

:

t--

Event	<u> </u>		1"	EVENT AND ACTION PLAN FOR WATER QUALITY	FO	R WATER QUALITY	1	
				ACTION	×			
	Ŀ	ET Leader		Contractor		ER		IEC
Action level	7	Identify source(s) of impact;	Ŀ	Notify IEC and ER in writing	~	Notify EPD and other relevant	+	Check monitoring data
being	2	Repeat in-situ measurement		within 24 hours of		governmental agencies in		
exceeded by		to confirm findings		identification of exceedance		writing within 24 hours of the	તં	_
more than one	က်	Notify Contractor in writing	2	٠		identification of the		if exceedance is due /
consecutive		within 24 hours of	က	Check all plant and		exceedance		_
sampling days		identification		equipment;	7	Discuss with IEC, ET and	က	_
	4.	Check monitoring data, all	4.	U		Contractor on the proposed		Contractor on the
		plant, equipment and		methods;	· · ·	mitigation measures;		mitigation measures.
		Contractor's working methods;	က်	UJ	က	Require contractor to propose	4.	
	ry.	Carry out investigation		investigation to IEC and ER		remedial measures for the		mitigation measures
	9			within 3 working days of the		analysed problem if related to		whenever necessary to
		investigation to the Contractor		identification of an		the construction works	·	ensure their
horio		within 3 working days of		exceedance	4.	Ensure remedial measures		effectiveness and advise
		identification of exceedance	ဖ်	Discuss with ET, IEC and ER		are properly implemented		_
		and advise contractor if		and propose mitigation	r.	Assess the effectiveness of	က်	•
		exceedance is due to		measures to IEC and ER		the mitigation measure		of the implemented
		contractor's construction		within 4 working days of				mitigation measures.
				identification of an				
	7.			exceedance				
		with IEC and Contractor within	7.	Implement the agreed				
		4 working of identification of		mitigation measures within				
•		an exceedance		reasonable time scale				
- of the last	ထ	Ensure mitigation measures						
		are implemented;						
	<u>o</u>	. Prepare to increase the						
· · · · · · · · · · · · · · · · · · ·		monitoring frequency to daily;						
	~	10. Repeat measurement on next						
		day of exceedance.						

.

Event		EVENT AND	Ϋ́		ATE	ACTION PLAN FOR WATER QUALITY EXCEEDANCE	Щ		
الانتخا م و ر				ACTION	Z				
		ET Leader		Contractor		ER		IEC	Υ
Limit level	Υ-	Repeat in-situ measurement	1.	Notify IEC and ER in writing;		Notify EPD and other relevant	. :	Check monitoring data	
being		to confirm findings;		within 24 hours of the		governmental agencies in		submitted by E.I.	
exceeded by	7	_		identification of the		writing within 24 hours of	7	Confirm ET assessment	
one sampling	"			exceedance		identification of exceedance		if exceedance is due /	
8		_	2	Rectify unacceptable practice;	2	Discuss with IEC, ET and		not due to the works	
5		identification of the	က	Check all plant and		Contractor on the proposed	က်	Discuss with ET, ER and	
		exceedance		equipment;		mitigation measures;		Contractor on the	
	4	_	4	Consider changes of working	က	Request Contractor to critically		mitigation measures.	
		_		methods:		review the working methods;	4.	Review proposals on	
		Contractor's working methods:	ιĊ	Submit the results of the	4	Ensure remedial measures		mitigation measures	
•	rc.	_	:	investigation to IEC and ER		are properly implemented		submitted by Contractor	
				within 3 working days of the	<u>ب</u>	Assess the effectiveness of		and advise the ER	
-		-		identification of an		the implemented mitigation		accordingly.	
		within 3 working days of		exceedance		measures.	က်	Assess the effectiveness	
		identification of exceedance	6	Discuss with ET, IEC and ER			····	of the implemented	
		and advise contractor if	i	and propose mitigation				mitigation measures	<u></u>
	•	exceedance is due to		measures to IEC and ER					
4		contractor's construction		within 4 working days of the					
		works		identification of an					
1 2	7			exceedance					
		with IEC, ER and Contractor	۲.						
نىچىدى <u>ت</u>		within 4 working of		mitigation measures within					
		identification of an		reasonable time scale					
		exceedance							
	<u></u>	Ensure mitigation measures							
		are implemented;							
	0	Increase the monitoring							
		frequency to daily until no							
	-	exceedance of Limit Level.							

Event		EVEN	 	EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	'ATE	R QUALITY EXCEEDANC	ш	
*- 				ACTION	Ž			
-		ET Leader		Contractor		ER		IEC
Limit Level	-	Repeat in-situ measurement	-	Notify ER and IEC in writing	- -		- :	Check monitoring data
being		to confirm findings;		within 24 hours of the		governmental agencies in	_	submitted by E.I
exceeded by	2			identification of the		writing within 24 hours of	۲,	Confirm ET assessment
more than one	က်			exceedance and		identification of exceedance		if exceedance is due /
consecutive	;	•	2	Rectify unacceptable practice;	7	Discuss with IEC, ET and		not due to the works
sampling days		identification of the	က်	Check all plant and		Contractor on the proposed	က	Discuss with ER, ET and
		exceedance		equipment;		mitigation measures;		Contractor on the
	4		4.	Consider changes of working	က	Request Contractor to critically		mitigation measures.
~~~	:			methods;		review the working methods;	4.	Review proposals on
	_	Contractor's working methods:	<u></u>	Submit the results of the	ô,	Ensure remedial measures		mitigation measures
نث ج	ιC			investigation to IEC and ER		are properly implemented		submitted by Contractor
	<b>ф</b>			within 3 working days of the	4.	Assess the effectiveness of		and advise the ER
	;	· -		identification of an		the implemented mitigation		accordingly.
		within 3 working days of		exceedance		measures;	က်	Assess the effectiveness
		identification of exceedance	က်	Discuss with ET, IEC and ER	က်	Consider and instruct, if		of the implemented
******		and advise contractor if		and propose mitigation		necessary, the Contractor to		mitigation measures.
		exceedance is due to		measures to IEC and ER		slow down or to stop all or part		
••••		contractor's construction		within 4 working days;		of the marine work until no		
		works	6	Implement the agreed		exceedance of Limit Level.		
	۲.	Discuss mitigation measures		mitigation measures within				
		with IEC, ER and Contractor;		reasonable time scale				
	ω.		7.	As directed by the Engineer,				
34.34.30		are implemented;		to slow down or to stop all or				
	<u>ග</u>			part of the marine work or				
		frequency to daily until no		construction actives.				
		exceedance of Limit Level for						
		two consecutive days.						

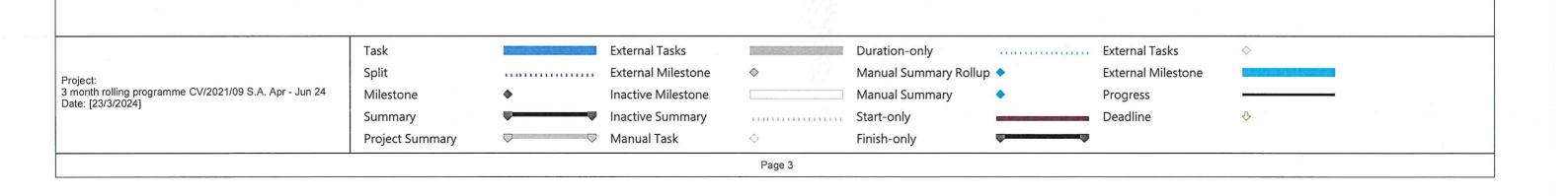


## Appendix G Construction Programme

ID	A	Task Name	Start	Finish	Duration	Predecesso time risk	Actual	Actual	%	0.5	- 1	Apr '24			May '24		Jun '24	J
1		Contract duration of Contract CV/2021/9	Mon 1/1/24	Wed 31/7/24	213 days	allowances	Start NA	Finish NA	Complet 0%	25	1 1	8   15	22	29	6   13   2	20   27	3 10 17	24 1 8
2		Contract date, Date of Letter of Acceptance	Mon 1/1/24		1 day		NA	NA	0%		21				CONTRACTOR AND			30/0/21
3		Starting Date of the Works	Mon 1/1/24	Indiana a salar a	1 day		NA	NA	0%									
4		Starting Date of Section 1 of the Works	Mon 1/1/24	Mon 1/1/24	1 day		NA	NA	0%									
5		Starting Date of Section 2 of the Works	Mon 1/1/24	Mon 1/1/24	1 day		NA	NA	0%							-		
6	THE STATE OF THE S	Starting Date of Section 3 of the Works	Mon 1/1/24		1 day		NA	NA	0%									
7		Date for Completion of the Works	Sun 31/12/23	Sun 31/12/23	1 day		NA	NA	0%							-		
8	THE STATE OF THE S	Completion Date of Section 1 of the Works		Wed 31/7/24			NA	NA	0%									
9	THE STATE OF THE S	Completion Date of Section 2 of the Works			1 day		NA	NA	0%	-								
10	THE STATE OF THE S	Completion Date of Section 3 of the Works			1 day		NA	NA	0%							_		
11	in a	Planned completion dates		Wed 31/7/24	1 day		NA	NA	0%									
12	ma .	Planned competion date of Section 1		Wed 31/7/24			NA	NA	0%							-		
13	H	Planned competion date of Section 2			1 day		NA	NA	0%							-		
14		Planned competion date of Section 3			1 day		NA	NA	0%				-					
15	THE STATE OF THE S	Access Date of the Site	Mon 1/1/24	Mon 1/1/24	1 day		NA	NA	0%							-		
16	<b>√</b> □	Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2, A10 and A11 (within 60 days after starting date)	Mon 1/1/24		1 day		Mon 1/1/24	Mon 1/1/24	100%									
17	<b>√</b> ②	Portion B1, B3, B6a, B6b and B7 (within 60 days after	Mon 1/1/24	Mon 1/1/24	1 day		Mon 1/1/24	Mon 1/1/24	100%									-
		starting date)																
18	<b>√</b> □	Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 day's advance notice after starting date)	Mon 1/1/24	Mon 1/1/24	1 day		Mon 1/1/24	Mon 1/1/24	100%						•	-		
19	1	Portion B6c	Mon 1/1/24	Mon 1/1/24	1 day		Mon 1/1/24	Mon 1/1/24	100%									
20	HE .	Hand back of the Site	Wed 31/7/24	Wed 31/7/24	1 day		NA	NA	0%							-		-
21	<b>√</b> [2]	Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and A11 (o at an earlier date notified by the Project Manager with 30 days' advance notice)	Mon 1/1/24	Mon 1/1/24	1 day		Mon 1/1/24	Mon 1/1/24	100%									4
22	<b>√</b> Ÿ	Portion A1, A7b, A7c1, A9 and A9a (or at an earlier date as notified by the Project Manager with 30 days' advance notice	Mon 1/1/24 e)	Mon 1/1/24	1 day		Mon 1/1/24	Mon 1/1/24	100%									
23	<b>√</b> Ÿ	Portion B1, B3, B6a, B6b and B7 (or at an earlier date as notified by the Project Manager with 30 days' advance notice.	Mon 1/1/24 e)	Mon 1/1/24	1 day		Mon 1/1/24	Mon 1/1/24	100%									-
24	<b>√</b> ₽	Portion B6c (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Mon 1/1/24	Mon 1/1/24	1 day		Mon 1/1/24	Mon 1/1/24	100%									-<-
25		Section 1A of the Works - Tseung Kwan O Area 137 Fill Bank	Mon 1/1/24	Wed 31/7/24	213 days	4SS	Mon 1/1/24	NA	33%			_						
26	<b>V</b>	Taking over the existing facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Mon 1/1/24	Mon 1/1/24	1 day	4SS 0	Mon 1/1/24	Mon 1/1/24	100%									
27		Operation of the the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Mon 1/1/24	Mon 1/1/24	1 day	26SS 0	Mon 1/1/24	NA	33%									
28	<b>4</b>	Operation and maintenance of the surveillance system within Portion A of the Site	Mon 1/1/24	Mon 1/1/24	1 day	26SS 0	Mon 1/1/24	NA	33%							-		
29	<u> </u>	Operation and maintenance of the existing tipping halls the Tseung Kwan O Area 137 Fill Bank within Portion A	at Mon 1/1/24 of	Mon 1/1/24	1 day	26SS 0	Mon 1/1/24	NA	33%									
30	4	the Site Provision, operation and maintenance of the Crushing Plant at the Tseung Kwan O Area 137 Fill Bank within	Mon 1/1/24	Wed 31/7/24	213 days	26SS 0	Mon 1/1/24	NA	33%		TA STO							
31		Portion A of the Site Operation and maintenance of the dewatering plant at th Tseung Kwan O Area 137 Fill Bank within portion A of th	e Mon 1/1/24	Wed 31/7/24	213 days	26SS 0	Mon 1/1/24	NA	33%									
32	<u>,</u>	Site Chai Wan and Mui Wo Barging Points to the TKO Area	Mon 1/1/24	Wed 31/7/24	213 days	26SS 0	Mon 1/1/24	NA	33%		54.00 PM					Assertation and		
33	1442.	Handing over the facilities at the Tseung Kwan O Area	Wed 31/7/24	Wed 31/7/24	1 day	0	NA	NA	0%	and the same of th								
		137Fill Bank within Portion A of the Site to the Employer						<u></u>										
		Task			48.00%	external Tasks		Dura	tion-only				Ext	ternal Ta	asks	$\Diamond$		
Project:		Split			I	xternal Milestone	$\Diamond$	Man	ual Summa	ry Rollu	р 🔷		Ext	ternal M	ilestone			
3 month	rolling	programme CV/2021/09 S.A. Apr - Jun 24 Mileston	9	<b>♦</b>	1	nactive Milestone		Man	ual Summa	iry	•		Pro	ogress			-	
Date: [2	23/3/2024	I] Summary						<b>C</b> 1. 1		,				adline		<b>₽</b>		
							^				1000		De	auiiile		~		
		Project S	ummary			Manual Task	<b>\( \)</b>	Finis	h-only			-		<u></u>				
							Page 1								· ·			
									-									

ID	60	Task Name	Start	Finish	Duration	Predecesso		Actual	Actual	%		Apr '24	M	ay '24	Jun '24	J
34	U	Planned Completion Date (Section 1)	Wed 31/7/24	Wed 31/7/24	1 day		allowances	Start Wed 31/7/24	Finish	Complet 0%		1 8 15 2 4/24	2 29 6	13   20   27		6/24
35	HH	Section 2A of the Works - Tuen Mun Area 38 Fill B		Wed 31/7/24				Mon 1/1/24		33%					500	JI ET
36		Taking over the existing facilities at the Tuen Mun			0 days	5SS	0	Mon 1/1/24		100%						
37	A	Fill Bank within Portion B of the Site Operation of the Tuen Mun Area 38 Fill Bank within		Wed 31/7/24			0	Mon 1/1/24		33%						
37	學的	Portion B of the Site	1 7	14				101011 17 1724								STORES ON STORES AND
38		Operation and maintenance of the surveillance sys within Portion B of the Site	Mon 1/1/24	Wed 31/7/24	213 days	5SS	0	Mon 1/1/24	NA	33%			(razio della constitución			AND REAL PROPERTY.
39	1	Operation and maintenance of the existing tipping the Tuen Mun Area 38 Fill Bank within Portion B of	halls at Mon 1/1/24 the	Wed 31/7/24	213 days	5SS	0	Mon 1/1/24	NA	33%	P 0 - 14					
40	型	Operation and Maintenance of the Crushing Plant a Tuen Mun Area 38 Fill Bank within Portion B of the	at the Mon 1/1/24 Site	Wed 31/7/24	213 days	5SS	0	Mon 1/1/24	NA	33%						
41		Operation and maintemnance of glass cullet storage compartment at the Tuen Mun Area 38 Fill Bank with Portion B of the Site		Wed 31/7/24	213 days	5SS	0	Mon 1/1/24	NA	33%						
42		Planned Completion Date (Section 2)	Wed 31/7/24	Wed 31/7/24	1 day			NA	NA	0%						
43		Section 3A of the Works - Designated Reclamation in the Mainland	Sites Sat 18/11/23	Mon 30/9/24	318 days			Sat 18/11/23	NA	15%						
44		Collection and delivery of Public Fill by vessels Tseung Kwan O Area 137 Fill Bank and the Tue Area 38 Fill Bank to the Desiognated Reclamati Sites in the Mainland	n Mun	Mon 30/9/24	318 days			Sat 18/11/23	NA	22%						- 2 %
45	1	1st quarter of year 2024	Sat 18/11/23	Sun 18/2/24	93 days			Sat 18/11/23	Sun 18/2/24	100%						
46	<b>V</b>	Submitting application documents to EPD fo application of dumping permits	Tue 28/11/23	Tue 28/11/23	0 days		0	Tue 28/11/23	3 Tue 28/11/23	100%						
47	1	Obtaining the dumping permit from EPD	Thu 28/12/23	Thu 28/12/23	1 day	46	1	Thu 28/12/23	3 Thu 28/12/23	100%						
48	1	Submitting Application documents to the Em for the application of the dumping permit of wather sea	nployer Sat 18/11/23 waste at	Sun 19/11/23	2 days		0	Sat 18/11/23	Sun 19/11/23	100%						8
49	<b>V</b>	Obtaining the dumping permits from Ministry Ecology and environment of the People's Re of China through the Employer	r of Thu 28/12/23 epublic	Thu 28/12/23	1 day	48	1	Thu 28/12/23	3 Thu 28/12/23	100%						
50	<b>V</b>	Obtaining all necessary permits, licenses, approvals and concents	Thu 28/12/23	Thu 28/12/23	0 days		0	Thu 28/12/23	3 Thu 28/12/23	100%						
51	No.	Collection and delivery of public Fill to Taish	an Wed 3/1/24	Sun 18/2/24	47 days	50		Wed 3/1/24	Sun 18/2/24	100%						
52		2nd quarter of year 2024	Tue 23/1/24	Sat 29/6/24	159 days			Tue 23/1/24	NA	23%					-	
53	V	Submitting application documents to EPD fo application of dumping permits	Tue 23/1/24	Tue 23/1/24	0 days		0	Tue 23/1/24	Tue 23/1/24	100%		-				
54	1	Obtaining the dumping permit from EPD	Fri 1/3/24	Fri 1/3/24	1 day	53		Fri 1/3/24	Fri 1/3/24	100%						
55	<b>V</b>	Submitting Application documents to the Em for the application of the dumping permit of value sea	nployer Fri 26/1/24 waste at	Fri 26/1/24	1 day			Fri 26/1/24	Fri 26/1/24	100%						
56	<b>V</b>	Obtaining the dumping permits from Ministry Ecology and environment of the People's Re of China through the Employer	of Fri 1/3/24 epublic	Fri 1/3/24	1 day	55	3	Fri 1/3/24	Fri 1/3/24	100%					9 "	
57	4	Obtaining all necessary permits, licenses, ap	provals Fri 1/3/24	Fri 1/3/24	1 day		0	Fri 1/3/24	Fri 1/3/24	100%						
58	m j	and concents  Collection and delivery of Public Fill to Taish	an Sat 2/3/24	Sat 29/6/24	120 days	54	0	Sat 2/3/24	NA	20%	State of the latest					
59	4	3rd quarter of year 2024	Tue 14/5/24	Mon 30/9/24	140 days			NA	NA	0%						
60	HB	Submitting application documents to EPD fo application of dumping permits		Sat 1/6/24	1 day			NA	NA	0%						
61	100	Obtaining the dumping permit from EPD	Sun 2/6/24	Sat 29/6/24	28 days	60		NA	NA	0%						
											-	1.L			J	
-		Task				External Task	s		Durat	ion-only			External Tasks	<b>√</b>		
		Split			I	External Mile	stone	<b>♦</b>	Manu	ial Summa	ary Roll	lup 🔷	External Milestor	ne 🗀		
Project 3 mont			stone	•		nactive Miles				ial Summa	-		Progress			
Date: [2	23/3/202	24]		<b>V</b>							ai y	•	-	-		
			imary			nactive Sum	mary	11111111111111					Deadline	Ŷ		
		Proje	ect Summary	$\triangle$	$\bigcirc$	Manual Task		$\Diamond$	Finish	i-only						
								Page 2								

ID	0	The Control of the Section of the Control of the Co	Start	Finish	Duration	Predecesso	time risk allowances	Actual Start	Actual Finish	% Complet	25	1	Ap	pr '24   15	22	29	6	May '24   13	20   2	 27	3   1	un '24 .0   17	24	1	8
62	iii iii	Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea	Tue 14/5/24	Tue 14/5/24	1 day		0	NA	NA	0%		4/24		- 1			=						30.	0/6/24	,
63	11	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on	Wed 15/5/24	Sun 23/6/24	40 days	62	7	NA	NA	0%										38 A.V. 53					
64		Obtaining all necessary permits, licenses,approvals and concents	Sat 1/6/24	Sun 30/6/24	30 days			NA	NA	0%		= ^ _											values ved ;		
65	HE	Collection and delivery of public fill to Taishan	Mon 1/7/24	Mon 30/9/24	92 days	64	0	NA	NA	0%		-													
66		Removal, excavation and deposition of stockpiled and/or deposited Public Fill within the Designated Reclamation Sites in the Mainland	Mon 1/1/24	Wed 31/7/24	213 days			Mon 1/1/24	NA	33%															
68		Operation and maintenance of the existing navigation channel and turning basins in association with the existing berthing facilituy at Zone E of the Desiganted Reclamation Sites in the Mainland	Mon 1/1/24	Wed 31/7/24	213 days			Mon 1/1/24	NA	33%															
69		Design and construction of seawalls in association with new berthing facilities at zone B	Thu 1/2/24	Sat 28/9/24	241 days			NA	NA	0%															,
70	EE	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Thu 1/2/24	Thu 1/2/24	1 day		0	NA	NA	0%														-	
71	THE STATE OF THE S	Preparation of design submission	Fri 2/2/24	Fri 16/2/24	15 days	70		NA	NA	0%															
72		Obtaining all necessary design approvals and concents	Sat 17/2/24	Sun 17/3/24	30 days	71		NA	NA	0%															
73		Construction of the berthing facilities	Mon 18/3/24	Fri 13/9/24	180 days	72		NA	NA	0%	5-20-20-20-20-20-20-20-20-20-20-20-20-20-	Sale Alban	AND THE				VIII-DENO A	TO A PARTY		Name E. San	ACTUAL PARTY	Professional States	Twinger of some	FF of VALUED	KALLEY.
74		Obtaining the construction completion certificate	Sat 14/9/24	Sat 28/9/24	15 days	73	2	NA	NA	0%															
75		Design and construction of seawalls (approximate 200m) in association with new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland	Thu 1/2/24	Tue 30/7/24	181 days			NA	NA	0%															
76	ia B	Obtaining the permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Thu 1/2/24	Thu 1/2/24	1 day			NA	NA	0%															
77		Preparation of design submission	Fri 2/2/24	Sat 2/3/24	30 days	76	2	NA	NA	0%										7-1					
78		Obtaining all necessary design approvals and concents	Sun 3/3/24	Mon 1/4/24	30 days	77	2	NA	NA	0%	(S)(S)(S)														
79		Construction of seawalls	Tue 2/4/24	Sun 30/6/24	90 days	78	14	NA	NA	0%		-			real area	97591-985		All the Colon	Ew Service	TOP AND THE		A New York			
80		Obtaining the construction completion certificate (subject to Project's Manager's instruction)	Mon 1/7/24	Tue 30/7/24	30 days	79		NA	NA	0%		N. A.	San Jing		v iv i igra				4.04						and the service
81	EEB	Site Formation works at Tsang Tsui site	Mon 1/1/24	Wed 31/7/24	213 days			NA	NA	0%						-		_							
		Carrying out of general site clearance and initial survey	Mon 1/1/24	Tue 30/1/24	30 days		•	NA	NA	0%		(-5)												-	
	THE STATE OF THE S	Construction of a haul road leading to the site	Wed 31/1/24	Thu 29/2/24	30 days	82	2	NA	NA	0%															
	EB	Collection of fill material deliviered by marine transportation through the berthing facility and disposal of the fill material collected to areas within the site	Fri 1/3/24	Wed 31/7/24	153 days		0	NA	NA	0%				(EV.294)								Actor			
85	THE .	Planned Completion Date (Section 3)	Mon 30/9/24	Mon 30/9/24	1 day			NA	NA	0%															





# Appendix H Weekly ET's Site Inspection Record



Inspection Date :

: 6-6-2024

Time

10260

Weather

Sunny (Fine) / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy

Wind

: Calm / Light / Breeze / Strong

Temperature

18.0

Humidity

High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:			
	lyko	4	1
Name:			1
	7 1 40	W.L. KWOK	Ho Ngan Tay
Title			
	Mela	E.0	E



Environmental Checklist	Imple S	ment tages		Remark
	Yes	No	N/A	****
Fugitive Dust Emission				
Dust control / mitigation measures shall be provided to prevent dust nuisance.	1			A STATE OF THE STA
Water sprays shall be provided and used to dampen materials.	V			
All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	<b>V</b>			
Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	1			
<ul> <li>Unpaved areas should be watered regularly to avoid dust generation.</li> </ul>	1			
The designated site main haul road shall be paved or regular watering.	1			
<ul> <li>The haul road inside the site and public road around the site entrance should be kept clean and free from dust.</li> </ul>	V			
<ul> <li>Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.</li> </ul>	1			
<ul> <li>Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.</li> </ul>	1			
<ul> <li>The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.</li> </ul>	1			
<ul> <li>Vehicle and equipment should be switched off while not in use.</li> </ul>	1			
<ul> <li>All plant and equipment should be well maintained e.g. without black smoke emission.</li> </ul>	1			
Open burning should be prohibited.	1			
<ul> <li>Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).</li> </ul>	1			
Noise Impact				
The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	1			THE STATE OF THE S
<ul> <li>The constructions works should be scheduled to minimize noise nuisance.</li> </ul>	1			
Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	1			
<ul> <li>Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.</li> </ul>	1			
Air compressors and hand held breakers should have noise labels.	1			
<ul> <li>Compressors and generators should operate with door closed.</li> </ul>	1			
<ul> <li>Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.</li> </ul>	V			
<ul> <li>Noisy equipment and mobile plant shall always be site away from NSRs.</li> </ul>	V			



Environmental Checklist		ment tages		Remark
			N/A	
Water Quality				
<ul> <li>Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.</li> </ul>	1	JUNES HICK	ACTIVITY SERVICES	
<ul> <li>The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.</li> </ul>	1			
<ul> <li>Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.</li> </ul>	1			
<ul> <li>The material shall be properly covered to prevent washed away especially before rainstorm.</li> </ul>	1			
<ul> <li>The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.</li> </ul>	1			
<ul> <li>Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.</li> </ul>	1			
<ul> <li>Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.</li> </ul>	1			
<ul> <li>A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.</li> </ul>	1			
<ul> <li>The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.</li> </ul>	1			
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	1			
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	1			
<ul> <li>Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.</li> </ul>	1			
The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	1			
<ul> <li>All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.</li> </ul>	1			
<ul> <li>Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.</li> </ul>	1			
<ul> <li>Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.</li> </ul>	1			
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	1			
A waste collection vessel shall be deployed to remove floating debris.	1			
Landscape and Visual				
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	1			
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	1			
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	√			
Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level.	V			
Lighting shall be set to minimise night-time glare.	√			



Environmental Checklist		ment		Remark
			N/A	
Waste Management				
Construction Waste Management				
<ul> <li>Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.</li> </ul>	1			
<ul> <li>Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.</li> </ul>	1			
<ul> <li>Mud and debris should be removed from waterworks access roads and associated drainage systems.</li> </ul>	<b>√</b>			
<ul> <li>Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li> </ul>	V			
<ul> <li>Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> </ul>	1			
<ul> <li>Prior to disposal of C&amp;D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.</li> </ul>	1			
<ul> <li>In order to monitor the disposal of C&amp;D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.</li> </ul>	1			
<ul> <li>Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.</li> </ul>	√			
Chemical Waste Management				
It is required to 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 in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	1		-	
<ul> <li>After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</li> </ul>	√			
<ul> <li>Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.</li> </ul>	1			
<ul> <li>Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.</li> </ul>	√			
<ul> <li>Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.</li> </ul>	1			
<ul> <li>The designated chemical waste storage area should only be used for storing chemical wastes.</li> </ul>	√			
The set-up of chemical waste storage area should				
<ul> <li>Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.</li> </ul>	V			
<ul> <li>Be enclosed on at least 3 sides and securely closed.</li> </ul>	1			
<ul> <li>Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.</li> </ul>	<b>V</b>			
Have adequate ventilation.	√			
<ul> <li>Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).</li> </ul>	√			
Ве аrranged so that incompatible materials are adequately separated.	V			



Environmental Checklist			menta		Remark
	-	Yes		N/A	
Warning panels should be displayed at the waste storage area.		√			
Waste storage area should be cleaned and maintained regularly.		7			
Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive c	hemical waste.	<b>√</b>			
All generators, fuel and oil storage should be within bundle areas.		<b>√</b>			
Oil leakage from machinery, vehicle and plant should be prevented.		V			
In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage be followed.	ge Response Plan should	1			
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.		√			
Good Site Practices					
Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for disposal to an appropriate facility, of all wastes generated at the site.	or collection and effective	1			
<ul> <li>Training of site personnel in proper waste management and chemical handling procedures should be provided.</li> </ul>		V			
<ul> <li>Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish into the nearby environment.</li> </ul>	and litter from dropping	1			
<ul> <li>Proper storage and site practices to minimise the potential for damage or contamination of construction materials.</li> </ul>		7			
The Environmental Permit should be displaced conspicuously on site.		7			
Construction noise permits should be posted at site entrance or available for site inspection.		7			
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary gene	ration of waste.	<b>√</b>			
Chemical storage area provided with lock and located on sealed areas.		7			
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).		7			
Any unused chemicals or those with remaining functional capacity should be recycled.		V			
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil in	nterceptors.	<b>V</b>			
To encourage collection of aluminium cans by individual collectors.		7			
Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.		1			
A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be us for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	sed, e.g. trip ticket system	V			
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment.	of wastes, then the area	<b>√</b>			



Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
Remark					

	Name	Title	Signature	Date
Checked by	June Lau	ET Representative	1	06 June 2024



Inspection Date : 13-6-2024

Time (0200

Weather Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy

Wind : Calm (Light) Breeze / Strong

Temperature 30

Humidity : High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:			
	lylo	42	
Name:			
	7-150	W. L. Kwok	Chris
Title			×
	Alow	Eo	E



Environmental Checklist	Imple S	menta tages		Remark
	Yes	No	N/A	
Fugitive Dust Emission				
Dust control / mitigation measures shall be provided to prevent dust nuisance.	V			
Water sprays shall be provided and used to dampen materials.	1			
All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	<b>V</b>			
Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	7			
<ul> <li>Unpaved areas should be watered regularly to avoid dust generation.</li> </ul>	V			
The designated site main haul road shall be paved or regular watering.	1			
<ul> <li>The haul road inside the site and public road around the site entrance should be kept clean and free from dust.</li> </ul>	1			
<ul> <li>Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.</li> </ul>	V			
<ul> <li>Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.</li> </ul>	1			
<ul> <li>The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.</li> </ul>	√			3.0
<ul> <li>Vehicle and equipment should be switched off while not in use.</li> </ul>	1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<ul> <li>All plant and equipment should be well maintained e.g. without black smoke emission.</li> </ul>	√			
Open burning should be prohibited.	1			
<ul> <li>Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).</li> </ul>	<b>√</b>			
Noise Impact				
The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	1			
<ul> <li>The constructions works should be scheduled to minimize noise nuisance.</li> </ul>	1			
<ul> <li>Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.</li> </ul>	1			
<ul> <li>Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.</li> </ul>	V			
Air compressors and hand held breakers should have noise labels.	V			
<ul> <li>Compressors and generators should operate with door closed.</li> </ul>	1			
<ul> <li>Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.</li> </ul>	1			
<ul> <li>Noisy equipment and mobile plant shall always be site away from NSRs.</li> </ul>	1			



Environmental Checklist		ment		Remark
			N/A	
Water Quality			LID COMIN	
<ul> <li>Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.</li> </ul>	1			
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	1			
<ul> <li>Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.</li> </ul>	1			
The material shall be properly covered to prevent washed away especially before rainstorm.	1			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	√			
Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	7			
Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	1			
<ul> <li>A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.</li> </ul>	1			
The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	1			
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	1			
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	V			
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	1			
The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	1			
All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	1			
Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	1			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	1			
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	V			
A waste collection vessel shall be deployed to remove floating debris.	1			
Landscape and Visual		en e		
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	1			
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	1			
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	1			
Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level.	1			
Lighting shall be set to minimise night-time glare.	V			



	Environmental Checklist			ation	Remark
				N/A	
W	aste Management				THE CONTRACT OF THE CONTRACT O
Co	onstruction Waste Management				
<b>(4</b> )	Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	V			
٠	Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	V			
•	Mud and debris should be removed from waterworks access roads and associated drainage systems.	1			
	Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	<b>V</b>			
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	1			
•	Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	1			
•	In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	1			
	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	1			
Cł	Chemical Waste Management				
	It is required to 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 in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	√			
٠	After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	1			
•	Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	1			
٠	Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	. √			
*	Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	1			
•	The designated chemical waste storage area should only be used for storing chemical wastes.	1			
•	The set-up of chemical waste storage area should				
	<ul> <li>Be suitable for the substance they are holding, resistant to сотовіоп, maintained in a good condition.</li> </ul>	1			
	Be enclosed on at least 3 sides and securely closed.	1			
	<ul> <li>Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.</li> </ul>	1			
	<ul> <li>Have adequate ventilation.</li> </ul>	1			
	<ul> <li>Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).</li> </ul>	1			
	Be arranged so that incompatible materials are adequately separated.	1			



	Environmental Checklist		ement stages		Remark
		Yes		N/A	
	Warning panels should be displayed at the waste storage area.	1			
•	Waste storage area should be cleaned and maintained regularly.	V			
<b>*</b> :	Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.	1			
•	All generators, fuel and oil storage should be within bundle areas.	1			
•	Oil leakage from machinery, vehicle and plant should be prevented.	1			
•	In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	1			
•	The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	1			
Gc	ood Site Practices	700 TE		5017	
	Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	1		(An 389)	
	Training of site personnel in proper waste management and chemical handling procedures should be provided.	1			
•	Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	1			
•	Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	1			
•	The Environmental Permit should be displaced conspicuously on site.	V			
•	Construction noise permits should be posted at site entrance or available for site inspection.	1			
	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	V			
	Chemical storage area provided with lock and located on sealed areas.	1			
•	All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	1			
	Any unused chemicals or those with remaining functional capacity should be recycled.	<b>√</b>			
	Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	<b>V</b>			×
•	To encourage collection of aluminium cans by individual collectors.	1			
•	Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	1			
•	A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	1			
•	A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	V			



Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
*					
Remarl	k				

	Name	Title	Signature /	Date
Checked by	June Lau	ET Representative	i	13 June 2024



21/06/2024 Inspection Date

Time

Sunny Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy Weather

Calm / Kight / Breeze / Strong Wind

Temperature

Humidity High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:			
	M	42	
Name:	Ckn	W.L. Kude	Lan Wing Sum
Title	Par	E. 0	Ē.Ţ



	Environmental Checklist		ment		Remark
		Yes		N/A	
Fugitive Dust Emission		rement			
<ul> <li>Dust control / mitigation measures sh</li> </ul>	all be provided to prevent dust nuisance.	1			
<ul> <li>Water sprays shall be provided and u</li> </ul>	·	1			
<ul> <li>All stockpile of aggregate or spoil sho</li> </ul>	ould be enclosed or covered and water applied in dry or windy condition.	1			
tail boards. Material having the poter covered by a clean tarpaulin.	rea used for moving materials which has the potential to create dust shall have properly fitting side and ntial to create dust shall not be loaded to a level higher than the side and tail boards, and shall be	1			
<ul> <li>Unpaved areas should be watered re</li> </ul>	gularly to avoid dust generation.	\ √			
<ul> <li>The designated site main haul road s</li> </ul>	hall be paved or regular watering.	1			
<ul> <li>The haul road inside the site and pub</li> </ul>	lic road around the site entrance should be kept clean and free from dust.	1			
<ul> <li>Wheel washing facilities including hig</li> </ul>	h-pressure water jet shall be provided at the entrance of work site.	1			
<ul> <li>Every vehicle shall be washed to rem</li> </ul>	nove any dusty materials from its body and wheels before leaving the fill bank.	1			
The temporary slope surfaces shall b	e covered with impermeable sheet or sprayed with water.	1			
<ul> <li>Vehicle and equipment should be swi</li> </ul>	itched off while not in use.	1			
All plant and equipment should be we	ell maintained e.g. without black smoke emission.	V			
<ul> <li>Open burning should be prohibited.</li> </ul>		1			
<ul> <li>Approval or exemption Non-road Mob vehicles at a conspicuous position Cap.311).</li> </ul>	oile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO	1			
Noise Impact					124
The approved method of working, equ	uipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	1			
<ul> <li>The constructions works should be seemed.</li> </ul>	cheduled to minimize noise nuisance.	V			
<ul> <li>Only well maintained plant should be</li> </ul>	operated on-site and plant should be serviced regularly during the construction works.	1			
<ul> <li>Powered mechanical equipment (PM</li> </ul>	E) should be covered or shielded by appropriate acoustic materials.	1			
<ul> <li>Air compressors and hand held break</li> </ul>	kers should have noise labels.	1			
<ul> <li>Compressors and generators should</li> </ul>	operate with door closed.	V			
<ul> <li>Machines and plants that may be in i</li> </ul>	intermittent use should be shut down between work periods or should be throttled down to a minimum.	1			
<ul> <li>Noisy equipment and mobile plant sh</li> </ul>	nall always be site away from NSRs.	V			



Environmental Checklist			ation	Remark
	Yes		N/A	
Water Quality		nio==		
<ul> <li>Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.</li> </ul>	1			
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	1			
Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	1			
The material shall be properly covered to prevent washed away especially before rainstorm.	1			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	1			
<ul> <li>Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.</li> </ul>	1			
Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	1			
A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	1			
The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	1			
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	1			
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	1			
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water,	1			
The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	1			
All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	1			
Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	1			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	V			
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	1			
A waste collection vessel shall be deployed to remove floating debris.	1			
Landscape and Visual				
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	√			
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	1			
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	1			
Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level.	1			
Lighting shall be set to minimise night-time glare.	1			



Environmental Checklist				Remark
	Yes	No	N/A	
Waste Management				
Construction Waste Management				
<ul> <li>Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.</li> </ul>	1			
<ul> <li>Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.</li> </ul>	1			
<ul> <li>Mud and debris should be removed from waterworks access roads and associated drainage systems.</li> </ul>	V			
<ul> <li>Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li> </ul>	V			У.
Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	1			4
Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	1			
In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	1			
<ul> <li>Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.</li> </ul>	√			
Chemical Waste Management				
It is required to 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 in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	1			
<ul> <li>After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</li> </ul>	1			
<ul> <li>Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.</li> </ul>	1			
Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	√			
<ul> <li>Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.</li> </ul>	√			
The designated chemical waste storage area should only be used for storing chemical wastes.	V			
The set-up of chemical waste storage area should				
<ul> <li>Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.</li> </ul>	V			
Be enclosed on at least 3 sides and securely closed.	V			
<ul> <li>Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.</li> </ul>	1			
Have adequate ventilation.	1			
<ul> <li>Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).</li> </ul>	√			
Be arranged so that incompatible materials are adequately separated.	V			



Environmental Checklist				Remark
	Yes	tages No	N/A	
Warning panels should be displayed at the waste storage area.	1			
<ul> <li>Waste storage area should be cleaned and maintained regularly.</li> </ul>	1			
<ul> <li>Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.</li> </ul>	1			
<ul> <li>All generators, fuel and oil storage should be within bundle areas.</li> </ul>	1			
Oil leakage from machinery, vehicle and plant should be prevented.		1		
<ul> <li>In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.</li> </ul>	1			
<ul> <li>The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.</li> </ul>	1			
Good Site Practices				
<ul> <li>Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li> </ul>	V	* III-6		
<ul> <li>Training of site personnel in proper waste management and chemical handling procedures should be provided.</li> </ul>	1			
<ul> <li>Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.</li> </ul>	1			
<ul> <li>Proper storage and site practices to minimise the potential for damage or contamination of construction materials.</li> </ul>	1			
The Environmental Permit should be displaced conspicuously on site.	1			
Construction noise permits should be posted at site entrance or available for site inspection.	1			
<ul> <li>Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	1			
Chemical storage area provided with lock and located on sealed areas.	1			
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	1			
<ul> <li>Any unused chemicals or those with remaining functional capacity should be recycled.</li> </ul>	1			
<ul> <li>Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.</li> </ul>	1			
To encourage collection of aluminium cans by individual collectors.	1			
<ul> <li>Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.</li> </ul>	V			
A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	1			
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	1			



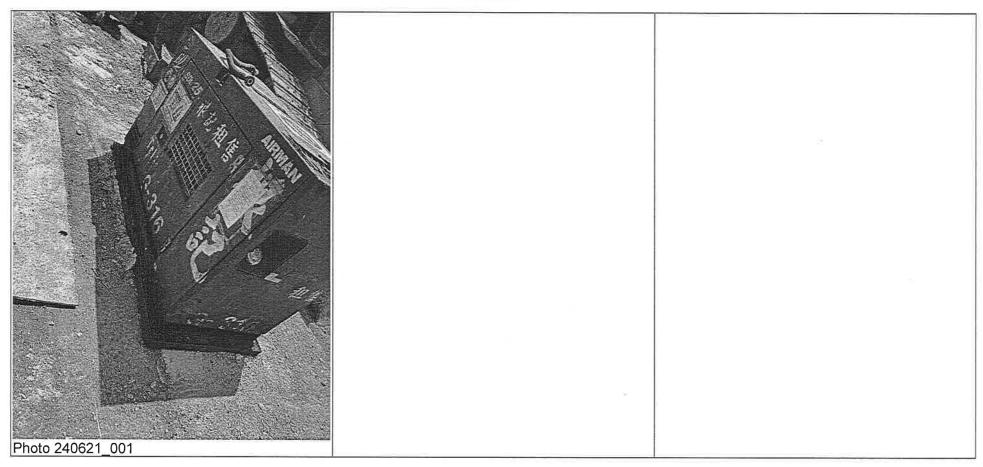
Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Grease stain in the generator tray should be removed to prevent oil leakage.	To remove the grease stain	240621_001	Yes	2024-06-26

Re	emark				

			//	
	Name	Title	Signature	Date
Checked by	June Lau	ET Representative		21 June 2024
			P	_



### **Photo**





Inspection Date

26/6/24

Time

ž

10=00

Weather

Sunny / Kine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy

Wind

Calm / (light) Breeze / Strong

Temperature

30~

Humidity

High / Moderate / www

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:			IEC Rep.
		A.	IEC Rep.
Name:	a + 10		IE(lop
	CK/b	W.L. Kwok	Mak Ker War
Title	Per		IE (Rep
		E_O	E.T 3



Environmental Checklist				Remark
	Yes	No	N/A	
Fugitive Dust Emission				
<ul> <li>Dust control / mitigation measures shall be provided to prevent dust nuisance.</li> </ul>	V			
Water sprays shall be provided and used to dampen materials.	<b>√</b>			
All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	1			
Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	1			
<ul> <li>Unpaved areas should be watered regularly to avoid dust generation.</li> </ul>	V			
The designated site main haul road shall be paved or regular watering.	1			
The haul road inside the site and public road around the site entrance should be kept clean and free from dust.	1			
<ul> <li>Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.</li> </ul>	√			
<ul> <li>Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.</li> </ul>	1			
<ul> <li>The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.</li> </ul>	1			3 3 1 1 2 2 3 3
Vehicle and equipment should be switched off while not in use.	1			
All plant and equipment should be well maintained e.g. without black smoke emission.	1			
Open burning should be prohibited.	1			
<ul> <li>Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).</li> </ul>	1			
Noise Impact				
The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	<b>√</b>			
<ul> <li>The constructions works should be scheduled to minimize noise nuisance.</li> </ul>	1			
<ul> <li>Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.</li> </ul>	1			
<ul> <li>Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.</li> </ul>	1			
Air compressors and hand held breakers should have noise labels.	1			
Compressors and generators should operate with door closed.	1			
<ul> <li>Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.</li> </ul>	1			
Noisy equipment and mobile plant shall always be site away from NSRs.	1			



Environmental Checklist				Remark
	Yes	tages No	N/A	
Nater Quality				
<ul> <li>Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.</li> </ul>	V	THE STATE OF THE S	MINUS NICES	
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	1			
<ul> <li>Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.</li> </ul>	1			
The material shall be properly covered to prevent washed away especially before rainstorm.	V			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	V			
<ul> <li>Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.</li> </ul>	1			
<ul> <li>Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.</li> </ul>	1			
<ul> <li>A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.</li> </ul>	1			
The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	1			
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	V			
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	V			
<ul> <li>Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.</li> </ul>	1			
The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	1			
<ul> <li>All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.</li> </ul>	V			
<ul> <li>Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.</li> </ul>	V			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	√			
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	1			
A waste collection vessel shall be deployed to remove floating debris.	1			
Landscape and Visual				
<ul> <li>The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.</li> </ul>	1			
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	V			
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	√			
<ul> <li>Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level.</li> </ul>	1			
Lighting shall be set to minimise night-time glare.	√			



Environmental Checklist				Remark	
		tages No	N/A		
Waste Management					
Construction Waste Management					
<ul> <li>Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.</li> </ul>	V				
Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	1				
<ul> <li>Mud and debris should be removed from waterworks access roads and associated drainage systems.</li> </ul>	1				
<ul> <li>Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li> </ul>	1				
<ul> <li>Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> </ul>	1				
<ul> <li>Prior to disposal of C&amp;D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.</li> </ul>	1				
<ul> <li>In order to monitor the disposal of C&amp;D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.</li> </ul>	V				
<ul> <li>Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.</li> </ul>	1				
Chemical Waste Management	To ask				
It is required to 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 in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	1				
After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	4				
<ul> <li>Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.</li> </ul>	1				
<ul> <li>Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.</li> </ul>	V				
<ul> <li>Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.</li> </ul>	√				
<ul> <li>The designated chemical waste storage area should only be used for storing chemical wastes.</li> </ul>	1	if T			
The set-up of chemical waste storage area should					
<ul> <li>Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.</li> </ul>	√				
<ul> <li>Be enclosed on at least 3 sides and securely closed.</li> </ul>	1				
<ul> <li>Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.</li> </ul>	1				
Have adequate ventilation.	1				
<ul> <li>Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).</li> </ul>	1				
<ul> <li>Be arranged so that incompatible materials are adequately separated.</li> </ul>	V				



	Environmental Checklist			ation *	Remark
	Warning panels should be displayed at the waste storage area.				
•	Warning panels should be displayed at the waste storage area.	V			
	Waste storage area should be cleaned and maintained regularly.	1			
•	Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.	V			
	All generators, fuel and oil storage should be within bundle areas.	1			
	Oil leakage from machinery, vehicle and plant should be prevented.		1		
	In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	1			
	The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	1			
G	ood Site Practices				
	Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	<b>V</b>	ant SEE	MALSE	
()	Training of site personnel in proper waste management and chemical handling procedures should be provided.	√			
	Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	V			
•	Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	1			
,	The Environmental Permit should be displaced conspicuously on site.	1			
	Construction noise permits should be posted at site entrance or available for site inspection.	1			
	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	1			
	Chemical storage area provided with lock and located on sealed areas.	V			
	All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	1			
	Any unused chemicals or those with remaining functional capacity should be recycled.	√			
	Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	1			
	To encourage collection of aluminium cans by individual collectors.	V			
	Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	V			
	A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	1			
	A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	1			



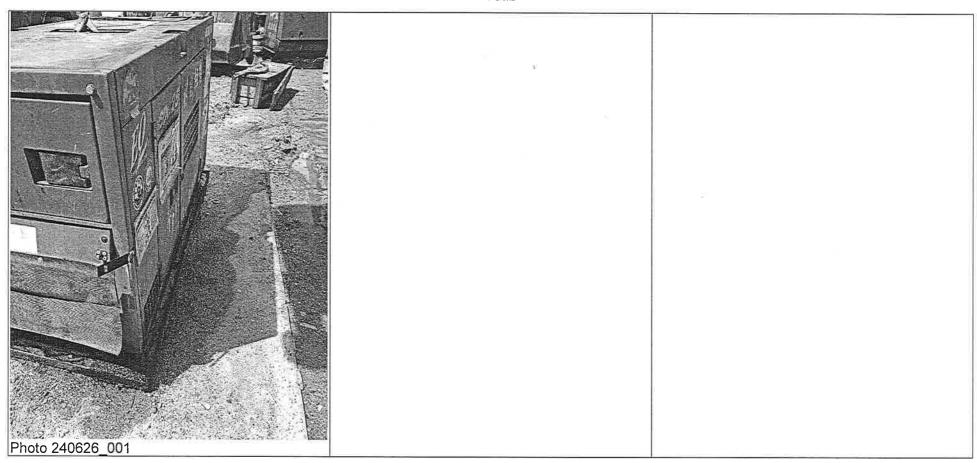
Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Followed up Item 1 on 21/06/2024, grease stain was removed.	25	240626_001	No	

Re	mark	

	Name	Title	Signature	2	Date
Checked by	June Lau	ET Representative		~0	26 June 2024



### **Photo**





## Appendix I

Implementation Schedule of Mitigation Measures



Contract No.: CV/2021/09 Handling of Surplus Public Fill (2022-2023) - Tuen Mun Area 38 Fill Bank

## **Environmental Mitigation Implementation Schedule**

Environmental Protection Measures	Location	Implementation Status			
		Implemented	Partially implemented	Not implemented	Not Applicable
Air Quality					
■ The maximum stockpiling height at the fill bank shall be limited to a maximum of +65.2mPD.	All areas	√			
<ul> <li>Hoarding of at least 2.4m high shall be erected along the site boundary adjacent to Lung Mun Road, River Trade Terminal and EcoPark.</li> </ul>	Site boundary	√			
Dust control / mitigation measures shall be provided to prevent dust nuisance.	All areas	$\checkmark$			
■ Water sprays shall be provided and used to dampen materials.	All areas	√			
All stockpile of aggregate or soil should be enclosed or covered, and water applied in dry or windy condition.	All areas	√			
Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards and shall be covered by a clean tarpaulin.	All areas	<b>V</b>			
<ul> <li>Unpaved areas should be watered regularly to avoid dust generation.</li> </ul>	Site Egress	$\checkmark$			
<ul> <li>The designated site main haul road shall be paved with concrete, bituminous materials, hardcores or metal plates and kept regular watering.</li> </ul>	All haul roads	√			
■ The public road around the site entrance should be kept clean and free from dust.	All areas	$\sqrt{}$			
Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	Site Egress	<b>√</b>			
Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	Site Egress	√			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	All areas	√			
<ul> <li>Tipping halls at the waterfront provided for transfer of public fill from trucks to barges shall be of enclosed design with top and 3- sides enclosed to prevent spillage of material into marine water.</li> </ul>	Tipping halls	√			
Vehicle and equipment should be switched off while not in use.	All areas	√			
All plant and equipment should be well maintained e.g. without black smoke emission.	All areas	√			
Open burning should be prohibited.	All areas	√			
<ul> <li>Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).</li> </ul>	All areas	V			
Full implementation of on-shore power supply for marine vessels while at berth.	Barging points		V		
■ Increase of the use of internal trucks with at least Euro VI standard to at least 57% of the internal truck fleet.	All areas	√			



	Location	Implementation Status				
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable	
Noise Impact						
The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	All areas	V				
Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	All areas	$\sqrt{}$				
Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	All areas	$\sqrt{}$				
Air compressors and hand held breakers should have noise labels.	All areas	√				
<ul> <li>Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.</li> </ul>	All areas	√				
Noisy equipment and mobile plant shall always be site away from NSRs.	All areas	$\sqrt{}$				
Water Quality						
The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained.	All areas	<b>√</b>				
<ul> <li>Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels.</li> <li>Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.</li> </ul>	All areas	V				
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	All areas	√				
The material shall be properly covered to prevent washed away especially before rainstorm.	All areas	<b>√</b>				
<ul> <li>Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.</li> </ul>	All areas		V			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	Temporary Slopes	<b>√</b>				
Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	All areas	<b>√</b>				
<ul> <li>A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.</li> </ul>	Wheel Washing facility	√				
The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Site Egress	√				
Sewage from toilets shall be discharged into a foul sewer, or chemical toilets shall be provided.	Site Office	$\sqrt{}$				
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	All areas	V				
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	All areas	$\sqrt{}$				
<ul> <li>Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.</li> </ul>	Along the seafront	√				
A waste collection vessel shall be deployed to remove floating debris.	Along the seafront	$\checkmark$				



	Location	Implementation Status				
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable	
Landscape and Visual						
The maximum stockpiling height at the fill bank shall be limited to a maximum of +65.2mPD.	All areas	<b>√</b>				
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	Completed slopes	<b>√</b>				
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	Completed slopes	√				
Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at least 3m above soil level.	Site boundary	√				
Lighting shall be set to minimise night-time glare.	All areas	<b>√</b>				
Waste Management						
Construction Waste Management						
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	All areas	√				
Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	All areas	√				
Mud and debris should be removed from waterworks access roads and associated drainage systems.	All areas	√				
Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	All areas	√				
Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	All areas	√				
In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	All areas	<b>√</b>				
Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	All areas	$\sqrt{}$				
Chemical Waste Management						
• It is required to 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 in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Waste Storage Area	$\sqrt{}$				
After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Waste Storage Area	√				
Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	Waste Storage Area	√				
Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	Waste Storage Area	√				
Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	Waste Storage Area	√				
The designated chemical waste storage area should only be used for storing chemical wastes.	Waste Storage Area	<b>√</b>				



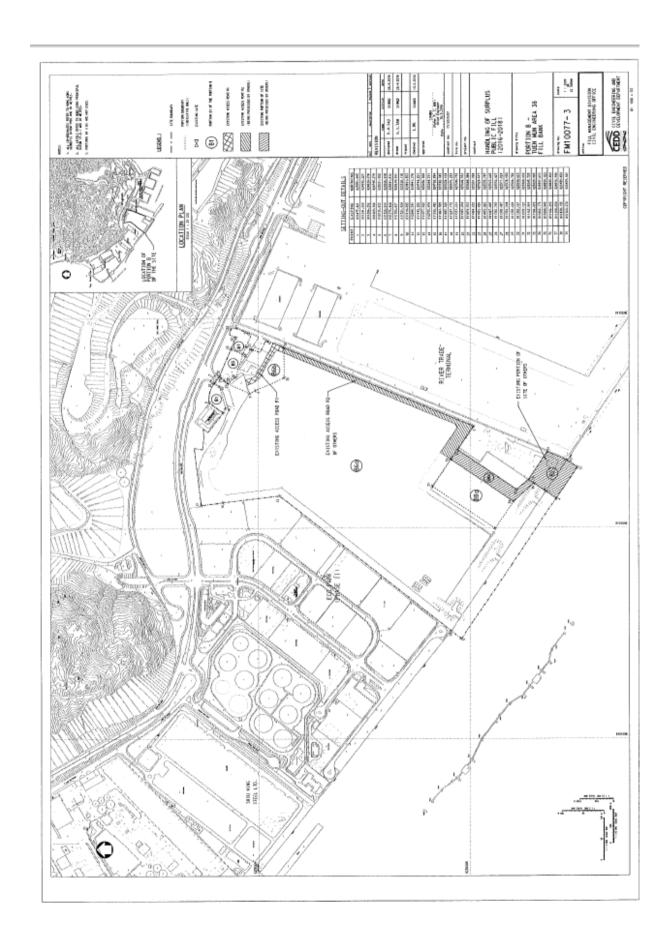
		Location	Implementation Status				
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable	
T	ne set-up of chemical waste storage area should						
•	Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	Waste Storage Area	√				
•	Be enclosed on at least 3 sides and securely closed.	Waste Storage Area	√				
•	Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	Waste Storage Area	√				
•	Have adequate ventilation.	Waste Storage Area	√				
•	Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	Waste Storage Area	√				
•	Be arranged so that incompatible materials are adequately separated.	Waste Storage Area	√				
•	Warning panels should be displayed at the waste storage area.	Waste Storage Area	√				
•	Waste storage area should be cleaned and maintained regularly.	Waste Storage Area	√				
•	Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste.	All areas	√				
•	All generators, fuel and oil storage should be within bundle areas.	All areas	√				
•	Oil leakage from machinery, vehicle and plant should be prevented.	All areas	√				
•	In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	All areas	V				
•	The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	All areas	$\checkmark$				
G	ood Site Practices						
•	Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	All areas	√				
•	Training of site personnel in proper waste management and chemical handling procedures should be provided.	All areas	$\checkmark$				
•	Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	All areas	√				
•	Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	All areas	√				
•	The Environmental Permit should be displaced conspicuously on site.	Site Entrance	√				
•	Construction noise permits should be posted at site entrance or available for site inspection.	Site Entrance				<b>V</b>	
•	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	All areas	V				
•	Chemical storage area provided with lock and located on sealed areas.	Chemical Storage Area	√				



		Location	Implementation Status			
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
•	All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	Chemical Storage Area	√			
•	Any unused chemicals or those with remaining functional capacity should be recycled.	All areas	$\sqrt{}$			
•	Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	All areas	√			
•	To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	All areas	√			
•	A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	All areas	√			
•	A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	All areas	V			
•	Remove wastes in a timely manner.	All areas				



# Appendix J Site General Layout plan





# Appendix K Monthly Summary Waste Flow Table

### **Monthly Summary Waste Flow Table for 2024**

	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse	
	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000m ³ )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	
Jan	0	0	0	0	0	0	167.18	0	0	0	449.88	
Feb	0	0	0	0	0	0	147.63	0	0	0	65.28	
Mar	0	0	0	0	0	0	172.64	0	0	0	45.64	
Apr	0	0	0	0	0	0	156.97	0	0	0	112.76	
May	0	0	0	0	0	0	160.95	0	0	0	138.16	
Jun	0	0	0	0	0	0	147.13	0	0	0	135.95	
Sub-total	0	0	0	0	0	0	952.5	0	0	0	947.67	
Jul												
Aug												
Sep				_					_			
Oct												
Nov												
Dec												
Total	0	0	0	0	0	0	952.5	0	0	0	947.67	

#### Notes:

- (1) The performance targets are given in **PS Clause 1.108(14)**.
- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The *Contractor* shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the *works*, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the *works* is equal to or exceeding 50,000 m³.
- (5) This waste flow table is under Contract (No. CV/2021/09) and the quantities of materials shown in the table is the sum of the material quantities generated by TKO137 Fill Bank and TM38 Fill Bank



## Appendix L

**Monitoring Schedule for the Coming Month** 



### Time Schedule for Impact Water Quality Monitoring (WQM), Impact Air Monitoring (1-hrTSP, 24-hr TSP and 24-hr RSP), Weekly Site Inspection (Weekly SI) and Impact Noise Monitor July 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30-Jun	1-Jul	2-Jul	3-Jul			6-Jul
24-hr TSP 24-hr TSP		1-hr TSP x 2 NM		1-hr TSP x 1 Weekly SI (am)		24-hr TSP 24-hr TSP
		WQM Mid-ebb		NM WQM Mid-ebb		WQM Mid-ebb
		(09:30-11:00) Mid-flood		(11:00-12:30) Mid-flood		(13:00-14:30) Mid-flood
7-Jul	8-Jul	(16:00-17:30) 9-Jul	10-Jul	(17:30-19:00)	12-Jul	(19:00-20:30)
7-Jul	8-Jul	1-hr TSP x 2	10-301	1-hr TSP x 1 Set 24 hr (12/07)	24-hr TSP	1-hr TSP x 2
		NM WQM Mid-flood (08:00-09:30) Mid-ebb (15:00-16:30)		NM Weekly SI (am) WQM Mid-flood (09:00-10:30) Mid-ebb (15:30-17:00)	24-hr TSP	WQM Mid-flood (10:30-12:00) Mid-ebb (16:30-18:00)
14-Jul	15-Jul	16-Jul	17-Jul	18-Ju	19-Jul	20-Jul
		1-hr TSP x 1 NM WQM Mid-ebb (08:30-10:00) Mid-flood (15:30-17:00)		24-hr TSP 24-hr TSP NM Weekly SI (am) WQM Mid-ebb (10:00-11:30) Mid-flood (17:00-18:30)		1-hr TSP x 2 WQM Mid-ebb (11:30-13:00) Mid-flood (18:00-19:30)
21-Jul	22-Jul	23-Jul	24-Jul	25-Ju	26-Jul	27-Jul
		1-hr TSP x 1 Set 24 hr (23/07) NM WQM Mid-flood (07:30-09:00) Mid-ebb (13:30-15:00)	24-hr TSP 24-hr TSP	1-hr TSP x 2 NM Weekly SI (am) WQM Mid-flood (08:30-10:00) Mid-ebb (15:00-16:30)		1-hr TSP x 1 WQM Mid-flood (10:00-11:30) Mid-ebb (16:00-17:30)
28-Jul	29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug
	WQM Mid-ebb (07:30-09:00) Mid-flood (13:00-14:30)	24-hr TSP 24-hr TSP NM	WQM Mid-ebb (09:00-10:30) Mid-flood (16:00-17:30)	1-hr TSP x 2 NM Weekly SI (am)	WQM Mid-ebb (11:00-12:30) Mid-flood (17:30-19:00)	1-hr TSP x 1

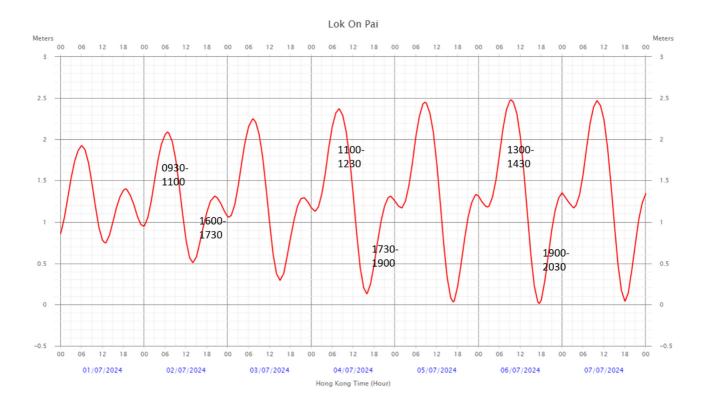
Remarks:

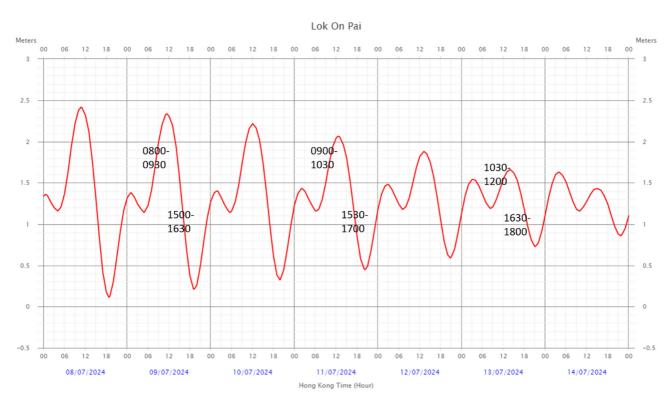
1. The monitoring schedule may be changed due to unforeseen circumstances such as adverse weather.

2. RSP measurement is not required in the EM&A manual and RSP would not presented in EM&A report.



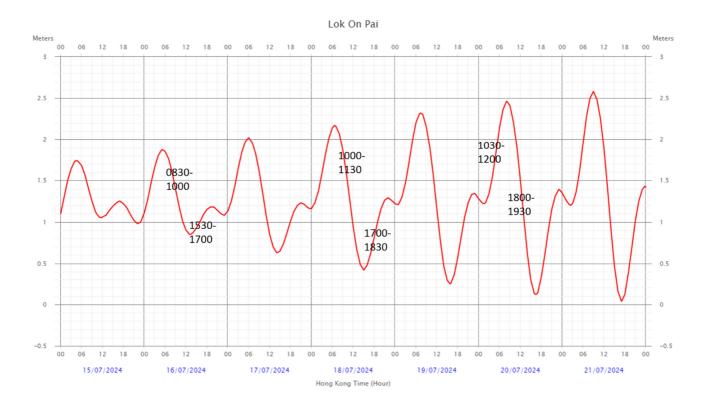
## Predicted tide schedule from the Hong Kong Observatory for Impact Water Quality Monitoring (WQM) July 2024

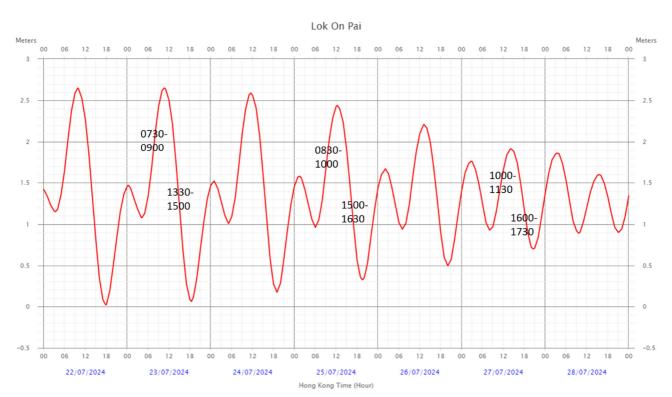






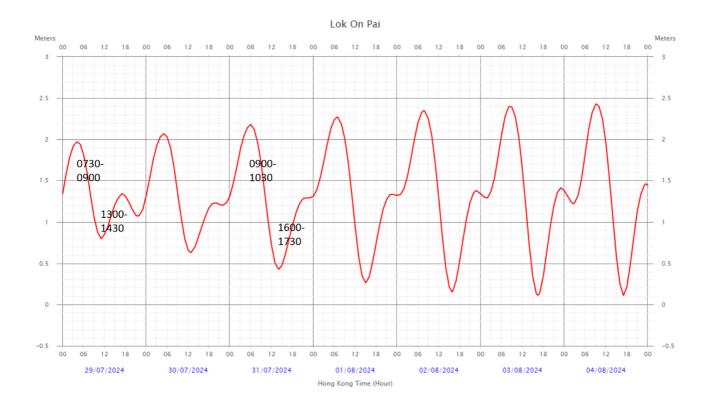
## Predicted tide schedule from the Hong Kong Observatory for Impact Water Quality Monitoring (WQM) July 2024







## Predicted tide schedule from the Hong Kong Observatory for Impact Water Quality Monitoring (WQM) July 2024





## Appendix M

**Reporting Month Monitoring Schedule** 



#### Time Schedule for Impact Water Quality Monitoring (WQM), Impact Air Monitoring (1-hrTSP, 24-hr TSP and 24-hr RSP), Weekly Site Inspection (Weekly SI) and Impact Noise Monitor June 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26-May	wonday 27-May	28-May	wednesday 29-May	30-May	31-May	Saturday 1-Jun
20 may		1-hr TSP x 2 NM Weekly SI (pm) WQM Mid-flood (09:00-10:30) Mid-ebb (15:00-16:30)	20 may	1-hr TSP x 1 Set 24 hr (31/05) NM WQM Mid-flood (10:00-11:30) Mid-ebb (16:30-18:00)	24-hr TSP 24-hr TSP	, 500
2-Jun	3-Jun	(15:00-16:30) 4-Jun	5-Jun	(16:30-18:00) 6-Jun	7-Jun	8-Jun
1-hr TSP x 2 WQM Mid-ebb (09:00-10:30) Mid-flood (14:30-16:00)		1-hr TSP x 1 NM WQM Mid-ebb (10:30-12:00) Mid-flood (17:00-18:30)	0 501	24-hr TSP 24-hr TSP NM Weekly SI (am) WQM Mid-ebb (12:30-14:00) Mid-flood (18:00-19:30)	, 500	1-hr TSP x 2 WQM Mid-flood (07:30-09:00) Mid-ebb (13:00-14:30)
(14:30-16:00) 9-Jun	10-Jun	(17:00-18:30) 11-Jun	12-Jun	(18:00-19:30) 13-Jun	14-Jun	(13:00-14:30) 15-Jun
		1-hr TSP x 1 Set 24 hr (12/06) NM WQM Mid-flood (08:30-10:00) Mid-ebb (15:30-17:00)	24-hr TSP 24-hr TSP	1-hr TSP x 2 NM Weekly SI (am) WQM Mid-flood (10:00-11:30) Mid-ebb (16:30-18:00)		1-hr TSP x 1 WQM Mid-ebb (07:30-09:00) Mid-flood (12:30-14:00)
16-Jun	17-Jun	18-Jun	19-Jun	(10.30-10.00) 20-Jun	21-Jun	(12.30-14.00) 22-Jun
	WQM Mid-ebb (09:00-10:30) Mid-flood (15:30-17:00)	24-hr TSP 24-hr TSP NM	WQM Mid-ebb (10:00-11:30) Mid-flood (17:00-18:30)	1-hr TSP x 3 NM	Weekly SI (am)  WQM Mid-ebb (11:30-13:00) Mid-flood (18:00-19:30)	
	WQM Mid-flood (07:30-09:00) Mid-ebb (13:30-15:00)	25-Jun 1-hr TSP x 2 NM	Weekly SI (am)  WQM Mid-flood (08:30-10:00) Mid-ebb (15:00-16:30)	27-Jun 1-hr TSP x 1 Set 24 hr NM	28-Jun WQM Mid-flood (10:30-12:00) Mid-ebb (16:30-18:00)	29-Jun
30-Jun	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul
24-hr TSP 24-hr TSP		1-hr TSP x 2 NM WQM Mid-ebb (09:30-11:00) Mid-flood (16:00-17:30)		1-hr TSP x 1 Weekly SI (am) NM WQM Mid-ebb (11:00-12:30) Mid-flood (17:30-19:00)		24-hr TSP 24-hr TSP WQM Mid-ebb (13:00-14:30) Mid-flood (19:00-20:30)

- 1. The monitoring schedule may be changed due to unforeseen circumstances such as adverse weather.

  2. RSP measurement is not required in the EM&A manual and RSP would not presented in EM&A report.

  3. Water quality monitoring (Mid-Flood &Ebb) on 01/06/2024 was rescheduled to 02/06/2024 due to the adverse weather condition (The Tropical Cyclone Signal No.3).



# Appendix N QA/QC Results of Laboratory Analysis



### **QA/QC Results of Laboratory Analysis of Total Suspended Solids**

	QC Sample				
	Analysis	Sample Du	plicate	Sample	e Spike
Sampling Date	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery [@]
	98.3	FC1-S	8.00	FM2-M	102.3
	101.4	FM2-B	0.00	EM1-S	91.2
2024/6/2	96.3	EM1-M	4.65	EC2-B	81.9
	100.4	FC1-S	0.00	FM2-M	109.6
	103.2	FM2-B	0.00	EM1-S	113.8
2024/6/4	98.4	EM1-M	7.14	EC2-B	116.1
	100.0	FC1-S	0.00	FM2-M	93.7
	97.3	FM2-B	5.41	EM1-S	109.7
2024/6/6	97.7	EM1-M	7.41	EC2-B	90.1
	102.3	FC1-S	3.08	FM2-M	91.4
	102.6	FM2-B	1.90	EM1-S	89.1
2024/6/8	104.9	EM1-M	4.94	EC2-B	102.0
	100.8	FC1-S	9.52	FM2-M	82.4
	97.8	FM2-B	5.13	EM1-S	95.6
2024/6/11	98.6	EM1-M	3.17	EC2-B	119.0
	102.1	FC1-S	6.90	FM2-M	99.5
	97.5	FM2-B	9.52	EM1-S	83.8
2024/6/13	102.1	EM1-M	0.00	EC2-B	115.0
	97.9	FC1-S	8.96	FM2-M	84.7
	101.1	FM2-B	0.00	EM1-S	106.8
2024/6/15	100.7	EM1-M	6.74	EC2-B	83.5
	103.5	FC1-S	4.35	FM2-M	93.3
	102.4	FM2-B	9.52	EM1-S	115.1
2024/6/17	102.9	EM1-M	4.08	EC2-B	96.0
	100.7	FC1-S	2.67	FM2-M	112.6
	97.5	FM2-B	5.13	EM1-S	87.4
2024/6/19	98.5	EM1-M	7.41	EC2-B	87.8
	104.2	FC1-S	3.28	FM2-M	113.8
	99.5	FM2-B	8.00	EM1-S	116.1
2024/6/21	103.9	EM1-M	2.41	EC2-B	103.8
	103.1	FC1-S	6.45	FM2-M	109.5
	103.9	FM2-B	1.46	EM1-S	93.9
2024/6/24	103.8	EM1-M	7.84	EC2-B	97.4
	101.4	FC1-S	3.08	FM2-M	91.1
	102.1	FM2-B	3.77	EM1-S	85.3
2024/6/26	102.6	EM1-M	7.41	EC2-B	111.6
	102.6	FC1-S	3.17	FM2-M	89.6
	97.1	FM2-B	5.88	EM1-S	98.6
2024/6/28	102.3	EM1-M	6.90	EC2-B	106.5



Appendix O

**Complaint Log** 



## **Complaint Log**

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
001	Lung Mun Road near Tuen Mun Area 38 Fill Bank	24 May 2017	One complaint received on 24 May 2017, which was forwarded to ET on 03 June 2017, from public against the rocks and debris deposited on the road surface along Lung Mun Road near Tuen Mun Area 38 Fill Bank. The complainant complained that waste generated caused an environmental nuisance.	Refer to the ET site investigation on 06 June 2017, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory.  Details of Action(s) Taken by the Contactor:  1. Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road;  2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;  3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;  4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets;  5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.	Closed
002	Lung Mun Road near Tuen Mun Area 38 Fill Bank	16 April 2018	One complaint received on 16 April 2018 from public and forwarded to ET by email at 10:51 on 25 May 2018. The complaint detail was"來往屯門第 38 區填料庫的龍門路沿路有很多泥頭車出入,泥頭會從車上掉至路面上,要求部門跟進及回覆。"	Refer to the ET site investigation on 26 May 2018, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory.  Details of Action(s) Taken by the Contactor:  1. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day;  2. Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road;  3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;  4. Site vehicles for transporting materials are covered properly by using clean tarpaulin sheets; Regular cleaning at the site haul road is provided.	Closed



003	Lung Mun Road near Tuen Mun Area 38 Fill Bank	26 June 2018	One complaint received on 26 June 2018 from public and forwarded to ET by email at 13:58 on 03 July 2018. The complaint detail was" 當天水車於 6 時出動洗街,導致交通阻塞."	Refer to the ET site investigation on 07 July 2018, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory.  Details of Action(s) Taken by the Contactor:  1. Improve the road washing plan to avoid washing in traffic peak peroid  2. Revised the road washing schedule as soon as possible once there is traffic jam	Closed
004	Tuen Mun Area 38 Fill Bank	06 October 2021	A complaint was received on 06 October 2021 from public regarding dust nuisance within TM38 Fill Bank and was forwarded to ET by email on 06 October 2021 for investigation.	Refer to the ET site investigation on 12 October 2021, no defective observation related to dust emission was recorded during the investigation.  Details of Action(s) Taken by the Contactor:  1. Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank.  2. Regular cleaning at the site haul road is provided to minimize the dust emission.	Closed



005	Tuen Mun Area 38 Fill Bank	28 June 2022	A complaint was received on 28 June 2022, which was forwarded to ET by email on 28 June 2022 for investigation, from public against "土木工程署屯門第 38 區填料庫經常發出異味,致現場的空氣及環境被受污染,土木工程拓展署難辭其咎,環保署亦應就現場大量大型車輛造成的空氣污染作出跟進。"	Refer to the ET site investigation on 30 June 2022, no defective observation related to dust emission was recorded during the investigation  Details of Action(s) Taken by the Contactor:  1. Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank;  2. Regular cleaning at the site haul road is provided to minimize the dust emission;  3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;	Closed
006	Tuen Mun Area 38 Fill Bank	05 July 2022	A complaint was received on 05 July 2022, which was forwarded to ET by email on 15 July 2022 for investigation, from an environmental group against "為何 TM38 區之斜坡不同蓋上帆布".	Refer to the ET site investigation on 14 July 2022, no defective observation related to dust emission was recorded during the investigation.  Details of Action(s) Taken by the Contactor:  1. Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank.  2. Regular cleaning at the site haul road is provided to minimize the dust emission.	Closed

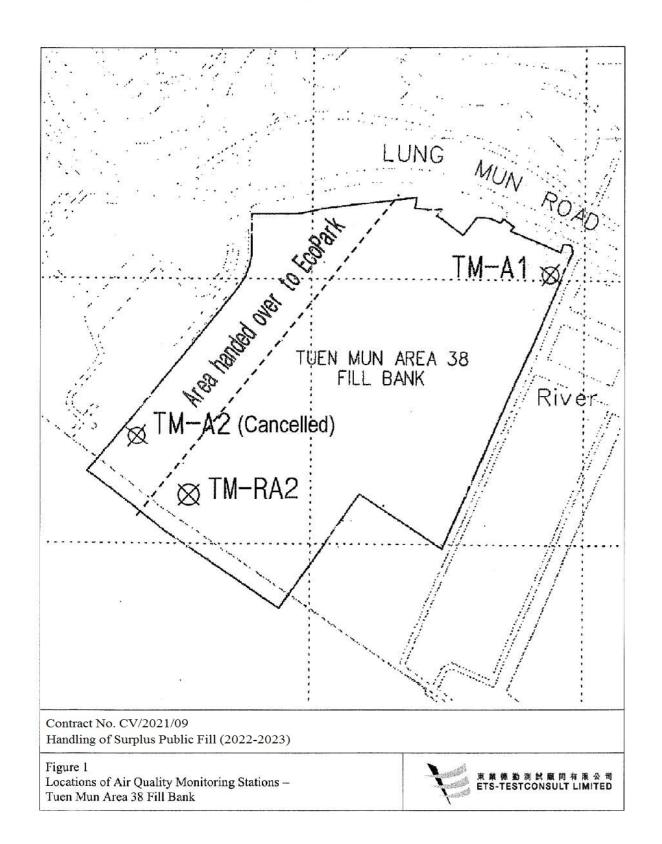


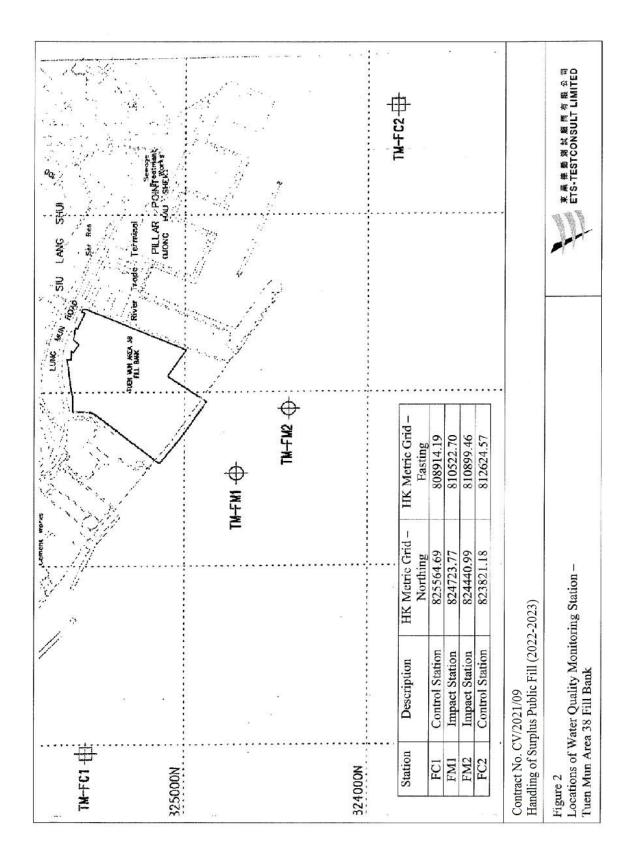
<u> </u>				\	
007	Tuen Mun Area 38 Fill Bank	30 September 2022	A complaint was received on 30 September 2022, which was forwarded to ET by email on 03 October 2022 for investigation, against "In recent days, we found that there was significant dust emission from the fill bank. As you are aware that we need to conduct RSP and TSP monitoring at the site boundary with very tight limits. We worry that these situations might affect our measurement. Please see the videos attached. They are taken on 21 Sept and one on 26 Sept. Grateful if you could investigate the cases and ensure dust is properly controlled.".	The video provided by the complainant showed that there was serious dust emission in 3RS collection area of public fill. Based on this situation, mitigation measures implemented in TM38 Fill Bank were reviewed and enhanced to avoid dust emission.  A joint site inspection and meeting was carried out on 06 October 2022 to discuss the dust emission at TM38 Fill Bank. The location of 3RS and discharge point would be inspected in every weekly environmental audit. The status of 3RS location would be recorded to monthly EM&A report.  Details of Action(s) Taken by the Contactor:  1. Increasing the frequency of water spraying by water lorries inside the Fill Bank.  2. Setting up water spraying machine in the 3RS area  3. Regular cleaning at the site haul road is provided to minimize the dust emission.	Closed
008	Tuen Mun Area 38 Fill Bank	25 January 2024	A complaint was received on 25 January 2024, which was forwarded to ET by email on 26 January 2024 for investigation, from public against dust nuisance and lack of lighting facilities "投訴屯門 38 區填料庫,沙塵四起,要求加強灑水。要求增加石屎路。夜間增加照明。"	Refer to the ET site investigation on 14 July 2022, no defective observation related to dust emission was recorded during the investigation.  Details of Action(s) Taken by the Contactor:  3. Increasing the frequency of water spraying by water lorries to suppress dust emission inside the Fill Bank.  4. Regular cleaning at the site haul road is provided to minimize the dust emission.	Closed



**Figures** 







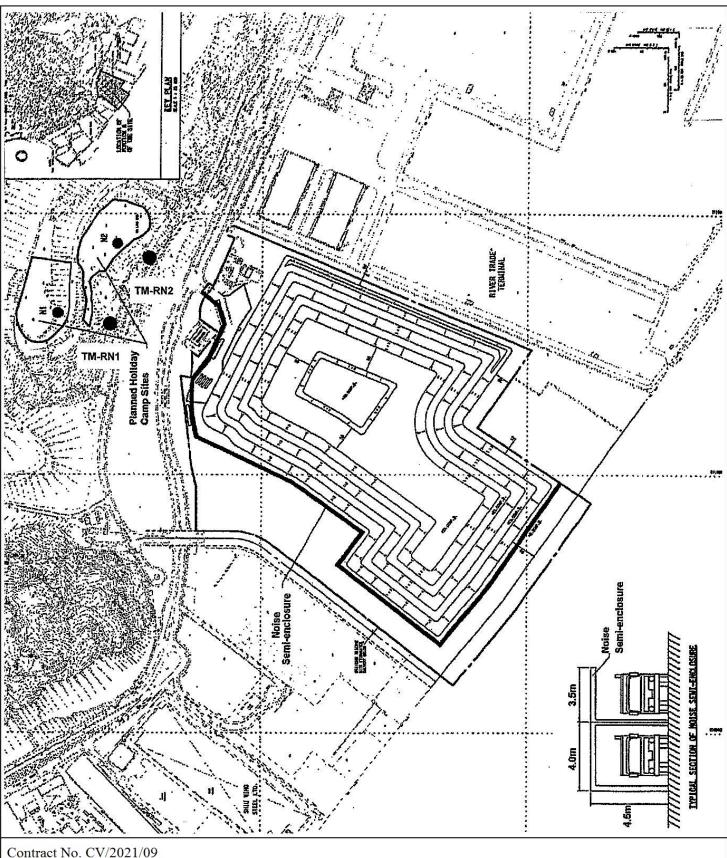


Figure 3 Locations of Noise Monitoring Stations – Tuen Mun Area 38 Fill Bank

