

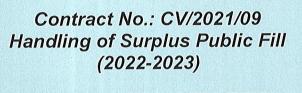


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China Harbour Engineering Co Ltd

TEST REPORT



TUEN MUN AREA 38 FILL BANK

MONTHLY EM&A REPORT NO.10

(OCTOBER 2022)

Prepared by:

LAU, Wing Sum Assistant Environmental Officer

Checked by:

LAU, Chi Leung Environmental Team Leader

Issue Date: 08 November 2022

Report No.: ENA26392

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Our Ref: PL-202211031

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

Attention: Mr. C L Lau

19 November 2022

Dear Mr. Lau,

RE: Contract No. CV/2021/09 Handling of Surplus Public Fill (2022-2023) Monthly EM&A Report (No. 10) for October 2022 for the Tuen Mun Area 38 Fill Bank

Reference is made to your submission of the Monthly EM&A Report for October 2022 for the Tuen Mun Area 38 Fill Bank, which received by email on 18 November 2022, we are pleased to inform you that we have no adverse comment on the captioned report.

Thank you for your attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully,

Toang Jankeorg

F. C. Tsang Independent Environmental Checker

cc. CEDD – Mr. T M YEUNG

Contract No.: CV/2021/09 Handling of Surplus Public Fill (2022-2023) – Tuen Mun Area 38 Fill Bank ENA26392 Monthly EM&A Report No.10

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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EXECUTIVE SUMMARY

This monthly Environmental Monitoring and Audit (EM&A) report No.10 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 October 2022.

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 and Maintenance of Crushing plant at TMFB;
- 3. Delivery of public fill to Taishan at TMFB;
- 4. Operation of the Integrated Public Fill Reception at TMFB;
- 5. Operation and Maintenance of Wheel Washing Bays and Facilities at TMFB;
- 6. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 7. Operation and Maintenance a Digital Works Supervision System (DWSS) for TMFB;
- 8. Operation of a New Soil Platform for Preliminary Sorting of Public Fill at TMFB;
- 9. Operation of Concrete Slab at Wet Deposition Platform in TMFB
- 10. Operation of AI System for Crushing Plant 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: 14 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

<u>Air Monitoring</u>

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

One complaint was received on 30 September 2022. No notification of summon and prosecution with respect to environmental issues was received in this reporting period.

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.



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/E) (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 forthcoming 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 October 2022.

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.

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 (Acuity)	Mr. F C Tsang	IEC	2698 9097	2333 1316	
Contractor (CHZH-JV)	Zhou Chang Ying	Senior Project Manager	96266299	22474108	
ET (ETL)	C. L. Lau	ET Leader	2946 7791	2695 3944	

 Table 2.1
 Contact Details of Key Personnel



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);
- Operation and Maintenance of Crushing plant at TMFB; 2.
- 3. Delivery of public fill to Taishan at TMFB;
- Operation of the Integrated Public Fill Reception at TMFB; 4.
- 5. Operation and Maintenance of Wheel Washing Bays and Facilities at TMFB;
- 6. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- Operation and Maintenance a Digital Works Supervision System (DWSS) for TMFB: 7.
- 8. Operation of a New Soil Platform for Preliminary Sorting of Public Fill at TMFB;
- 9. Operation of Concrete Slab at Wet Deposition Platform in TMFB
- Operation of AI System for Crushing Plant at TMFB 10.

AIR QUALITY MONITORING 4.0

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 GMWS2310 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 Equipi	ment
Equipment	Model and Make
HVS	Graseby GMW 2484 & 1180
Calibrator	Tisch TE-5025A 3999

Table 1 1 Air Ouslity Manitaring Equipment

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.

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 1hour 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 equilibrated in a 3esiccators for 24 hour with the temperature of 25°C <u>+</u> 3°C and the relative humidity (RH) <50% <u>+</u>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.



4.6 Action and Limit Levels

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

Monitoring	<i>Nonitoring</i> 24-hr TSP (μ g/m ³)		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		

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

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-A2 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.

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).

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.

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

Table 5.1 Monitoring Parameters and Frequency of the marine water



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 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.

		mater adding meriteri	ng Equipment (in elle mee	
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	30/08/22	29/11/22	ET/EW/008/010*
Water Depth	Speedtech SM- 5			ET/EW/002/08

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

Remark: Indicates the instrument should be calibrated on site.

5.5 Action and Limit Levels

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

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

Table 5.4Water Quality Action and Limit Levels



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
1 0010 010	Thine concate of marine trater addate, morntoring

			October 2022	•		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
						•
2	3	4	5	6	7	8
	•			•		•
9	10	11	12	13	14	15
		▼		▼		▼
16	17	18	19	20	21	22
			▼		▼	
23	24	25	26	27	28	29
▼		▼		▼		•
30	31					

Remark: $(\mathbf{\nabla}) = Marine water quality monitoring carried out by ET$

Water quality monitoring (mid-Flood&Ebb) on 18/10/2022 was cancelled due to the adverse weather condition (The Tropical Cyclone Signal No.3)

5.8 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.

		Exceedance	DO				
Tide	Station	Level	Surface & Middle	Bottom	Turbidity	SS	Total
	TM-FM1	Action	0	0	0	0	0
Mid-Ebb	1101-1-1011	Limit	0	0	0	0	0
IVIIU-EDD	TM-FM2	Action	0	0	0	0	0
	TIVI-FIVIZ	Limit	0	0	0	0	0
	TM-FM1	Action	0	0	0	0	0
Mid-	1101-1-1011	Limit	0	0	0	0	0
Flood	TM-FM2	Action	0	0	0	0	0
	I IVI-FIVIZ	Limit	0	0	0	0	0
т	otal	Action	0	0	0	0	0
10	Ulai	Limit	0	0	0	0	0

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

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 (L_{eq}) 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
		Lyuphicht

Equipment	Model
Sound Level Meter	Rion NL-31 / Rion NL-52
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 Pa	ameters of Noise N	Nonitoring	
	Time period	Duration/min	Paramotors	6

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.
- 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 6.3Action 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.

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 05, 13, 20 and 25 October 2022. Summaries of key findings of weekly ET site inspections in this month are described in Table 7.1.

	Rey Findings of Weekly ET Site inspections in this reporting month					
Date	Key Findings	Action(s) Taken	Action(s) Taken by the Contractor	Rectification		
		recommended by ET		Status by ET		
			during the site audit			
05						
October	No defective work or ob	servation was recorded durir	ng the weekly ET site	inspection		
2022						
13						
October	Dry soil surface was	Provide water spraying to		Follow-up		
2022	observed at 3RS location	avoid dust generation				
20						
October	Dry soil surface was	Provide water spraying to	Water spraying	Closed		
2022	observed at 3RS location	avoid dust generation	was provided			
25						
October	No defective work or observation was recorded during the weekly ET site inspection					
2022			· ·			
2022	1					

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



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 6, 13 & 25 October 2022.

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.

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.

Description	Permit No.	Valid Period		Section
		From	То	
Environmental Permit	EP- 210/2005/E	22/12/21	31/12/23	Issued
Chemical Waste Registration	5296-421- C1186-33	20/04/17		Spent battery containing heavy metals and spent lubricating oil
Effluent Discharge License	TBC	TBC	TBC	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/23- 028	02/09/22	31/12/22	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

 Table 7.2
 Summary of environmental licensing and permit status



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

One 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.". Based on this situation, mitigation measures implemented in TM38 Fill Bank were reviewed and enhanced to avoid dust emission. For example, the frequency of water spraying by water lorries inside the Fill Bank was increased and water spraying machine was set up in the 3RS area.

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

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

				Sutions	
Complaints	logged	Summons s	served	Successful Pro	osecution
October 2022	Cumulative	October 2022	Cumulative	October 2022	Cumulative
1	7	0	0	0	0

 Table 7.3
 Summary of Environmental Complaints and Prosecutions

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 +40 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.

	aoto gonoratoa in tino reporti	
Waste Type	Actual Amount	Disposal Locations
Public Fill ('000m³)	0	Tuen Mun 38 Fill Bank
C&D Waste ('000kg)	35.65	WENT Landfill
Chemical Waste (kg)/(L)	0(L)	Collected by licensed collector

Table 9.1 Actual amounts of Waste generated in this reporting month

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.

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

A 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.

One complaint was received on 30 September 2022; No 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;
- 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:

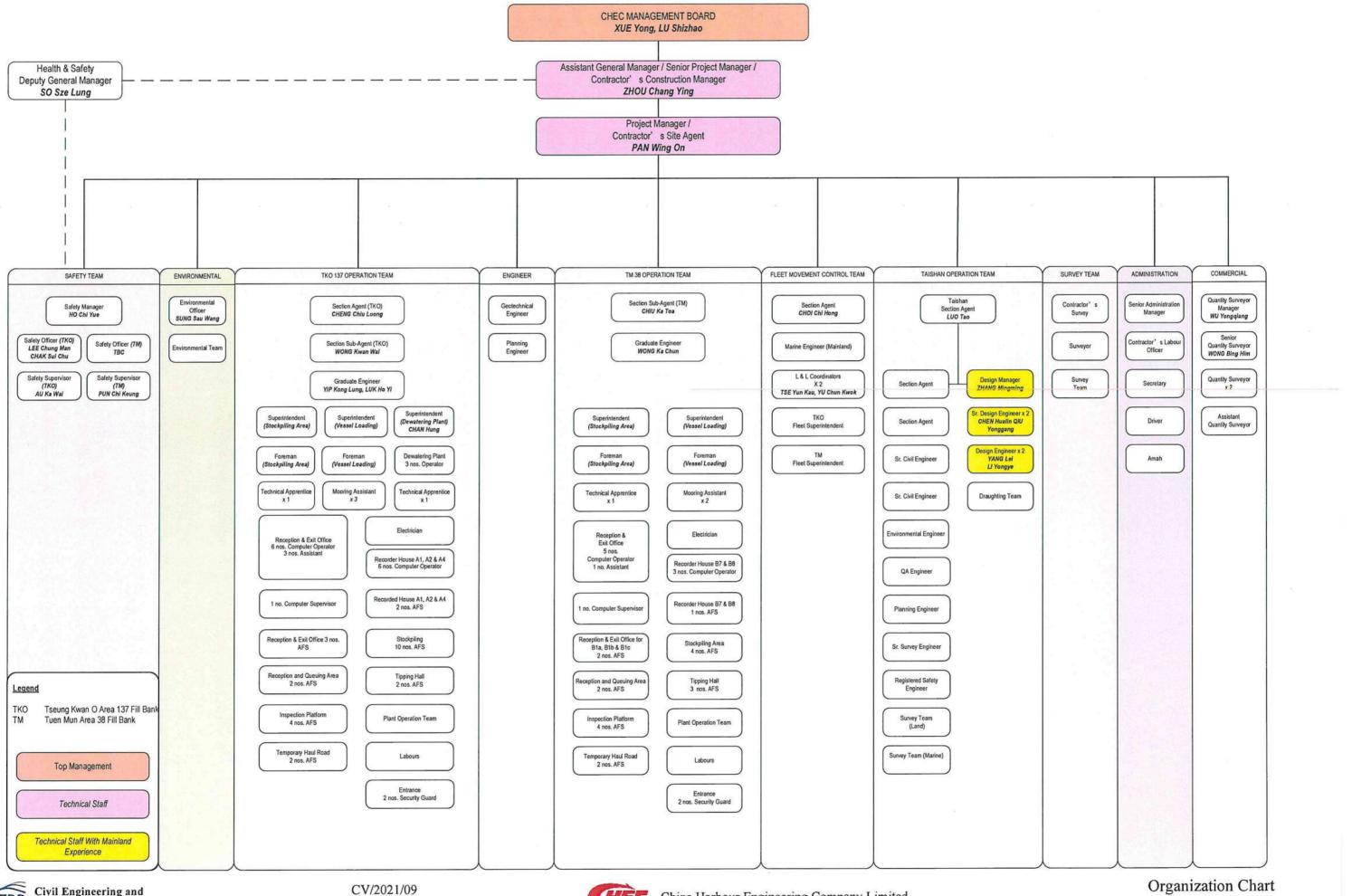
- Dust generation from activities on site, such as vehicular movements along unpaved area and rock crushing activities;
- Noise impact from operating equipment and machinery on site;
- Wastewater and surface runoff from the site discharged into nearby water body;
- Regular checking of the drainage system;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

- END OF REPORT -



Appendix A

Project Organization Chart





Civil Engineering and Development Department

CV/2021/09 Handling of Surplus Public Fill



Rev. 5



Appendix B1

Calibration Certificates for Impact Air Quality Monitoring Equipments



東業德勤測試顧問有限公司 **ETS-TESTCONSULT LTD**.

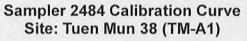
TEST REPORT

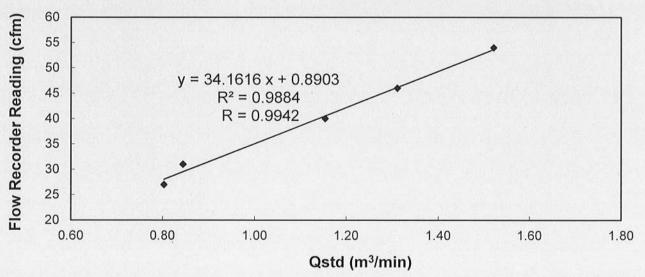
8/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

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

Calibration Report of **High Volume Air Sampler**

Manufacturer	:	Graseby GMW	Date of Cal	ibration	: <u>03 S</u> e	ptember 20	022
Serial No.	:	2484 (ET / EA / 003 / 27)	Calibration	Due Date	: <u>02 No</u>	vember 20	22
Method	:	Five-point calibration by using standard ca Manual	alibration k	it Tisch TE-	5025A re	fer to the C)perations
Results	:	Flow recorder reading (cfm)	53	45	39	31	28
		Qstd (Actual flow rate, m ³ /min)	1.51	1.28	1.16	0.84	0.81
		Pressure : 752.31 mm Hg	3	Temp. :	303	к	





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)

- END OF REPORT -



東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

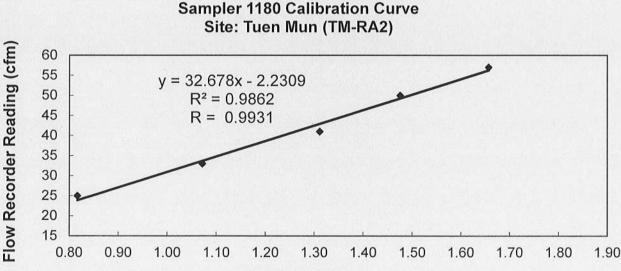
8/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

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

TEST REPORT

<u>Calibration Report</u> of High Volume Air Sampler

Manufacturer	:	Graseby GMW	Date of Calib	oration	: 03 5	September 2	022
Serial No.	:	1180 (ET / EA / 003 / 04)	Calibration D	ue Date	: <u>02 N</u>	lovember 20	022
Method		Based on Operations Manual for the 5-p manufactured by Tisch TE-5025 A	ooint calibrati	on using st	andard c	alibration kit	
Results	:	Flow recorder reading (cfm)	52	46	39	33	26
		Qstd (Actual flow rate, m ³ /min)	1.61	1.49	1.31	1.08	0.84
		Pressure : 752.31 mm H	g	Temp. :	303	к	



Qstd (m³/min)

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>Mak Thi Wai</u> MAK, Kei Wai

(Assistant Supervisor)

Checked by LAU, Chi Leung

LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -

	100-700-0						REC/	ALIBRATION
	2 <i>(</i> –	-0 L					Ð	UE DATE:
	70 &	- 1					Janua	ary 21, 2023
Envir		ant	a		Į.			
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	······································		Calibration	Certificatio	on Informat	tion		
Cal. Date:	January 21	, 2022	Rootsi	meter S/N:	438320	Та:	295	°K
Operator:	Jim Tisch					Pa:	754.1	mm Hg
Calibration	Model #:	TE-5025A	Calit	brator S/N:	3999		<u>.</u>	
	[]	Vol. init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ)
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4540	3.2	2.00	
	2	3	4	1	1.0230	6.4	4.00	
	3	5	6	1.	0.9170	8.0	5.00	
	4	7	8	1	0.8750	8.9	5.50	
	5	9	10	1	0.7200	12.9	8.00	
			C	Data Tabula	tion			
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-axi	is)	Va	(x-axis)	(y-axis)	
	0.9981	0.6865	1.419		0.9958	0.6848	0.8845	
	0.9939	0.9715	2.002		0.9915	0.9692	1.2509	
	0.9917	1.0815	2.238		0.9894	1.0789 1.1294	1.3985 1.4668	
	0.9905	1.3684	2.831		0.9829	1.3651	1.4008	
	0.0002	m=	2.080		0.00000	m=	1.30293	
	QSTD	b=	-0.013		QA	b=	-0.00826	
		r=	0.999	96		r=	0.99996	
				Calculation				
		and the second)/Pstd)(Tstd/Ta	a)		ΔVol((Pa-Δ	P)/Pa)	
	Qstd=	Vstd/∆Time				Va/∆Time		
		//	For subsequ	ent flow rat	te calculatio	ns: //	<u> </u>	
	Qstd=	1/m((√∆H(Pa <u>Tstd</u> Pstd Ta))-ь)	Qa=	1/m((√∆ŀ	l(Тә/Ра))-b)	
[Conditions						
Tstd:	298.15			I		RECA	LIBRATION	
Pstd:		mm Hg Cey	····		US EPA reco	ommends a	nnual recalibratio	on per 1998
ΔH: calibrat		er reading (i	n H2O}				Regulations Part	
ΔP: rootsme							, Reference Meth	
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	arometric pr	essure (mm	Hg)		th	e Atmosphe	ere, 9.2.17, page	30
b: intercept m: slope				L				J
<u>Lui siche</u>		· · ·						

Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009



Appendix B2

Impact Air Quality Monitoring Results



Summary of 24-hr TSP Monitoring Results

Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	(m ³ /min.)	Average	Filter W	/eight (g)	
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
04/10/22	13:00	05/10/22	13:00	15271.31	15295.31	24.00	1.0278	1.0278	1.0278	2.8523	2.9544	69
10/10/22	09:30	11/10/22	09:30	15298.31	15322.31	24.00	1.0278	1.0278	1.0278	3.0717	3.1635	62
16/10/22	13:00	17/10/22	13:00	15325.31	15349.31	24.00	1.0278	1.0278	1.0278	3.0788	3.1765	66
22/10/22	08:30	23/10/22	08:30	15352.31	15376.31	24.00	1.0570	1.0570	1.0570	3.0655	3.1736	71
28/10/22	08:30	29/10/22	08:30	15379.31	15403.31	24.00	1.0570	1.0570	1.0570	3.0732	3.1828	72

Monitoring Station : TM-A1

Monitoring Station

: TM-RA2

Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	(m ³ /min.)	Average	Filter W	/eight (g)	Conc. (μg/m ³)
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m)
04/10/22	13:00	05/10/22	13:00	30558.53	30582.53	24.00	1.1699	1.1699	1.1699	2.8641	2.9938	77
10/10/22	09:30	11/10/22	09:30	30585.53	30609.53	24.00	1.1699	1.1699	1.1699	3.0830	3.1959	67
16/10/22	13:00	17/10/22	13:00	30612.53	30636.53	24.00	1.1699	1.1699	1.1699	3.0756	3.1969	72
22/10/22	08:30	23/10/22	08:30	30639.53	30663.53	24.00	1.2005	1.2005	1.2005	3.0684	3.2067	80
28/10/22	08:30	29/10/22	08:30	30666.53	30690.53	24.00	1.2005	1.2005	1.2005	3.0811	3.2177	79



Summary of 1-hr TSP Monitoring Results

Date	Tir	me	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter W	eight (g)	Cana (11 a / 3)
Dale	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
06/10/22	09:50	10:50	15295.31	15296.31	1.00	1.0278	1.0278	1.0278	2.8587	2.8698	180
06/10/22	13:00	14:00	15296.31	15297.31	1.00	0.9985	0.9985	0.9985	2.8831	2.8937	177
08/10/22	13:30	14:30	15297.31	15298.31	1.00	1.0570	1.0570	1.0570	3.0844	3.0967	194
11/10/22	11:00	12:00	15322.31	15323.31	1.00	1.0863	1.0863	1.0863	3.0783	3.0905	187
13/10/22	11:00	12:00	15323.31	15324.31	1.00	1.0570	1.0570	1.0570	3.0717	3.0828	175
15/10/22	08:55	09:55	15324.31	15325.31	1.00	1.0278	1.0278	1.0278	3.1006	3.1109	167
18/10/22	09:40	10:40	15349.31	15350.31	1.00	1.0278	1.0278	1.0278	3.0946	3.1054	175
18/10/22	10:45	11:45	15350.31	15351.31	1.00	1.0278	1.0278	1.0278	3.0739	3.0850	180
20/10/22	09:05	10:05	15351.31	15352.31	1.00	1.0570	1.0570	1.0570	3.0752	3.0877	197
25/10/22	11:30	12:30	15376.31	15377.31	1.00	1.0278	1.0278	1.0278	3.0909	3.1012	167
25/10/22	13:10	14:10	15377.31	15378.31	1.00	1.0278	1.0278	1.0278	3.0647	3.0753	172
27/10/22	10:00	11:00	15378.31	15379.31	1.00	0.9985	0.9985	0.9985	3.0814	3.0917	172
29/10/22	08:45	09:45	15403.31	15404.31	1.00	1.0570	1.0570	1.0570	3.0727	3.0845	186
29/10/22	13:00	14:00	15404.31	15405.31	1.00	1.0278	1.0278	1.0278	3.0630	3.0733	167



Summary of 1-hr TSP Monitoring Results

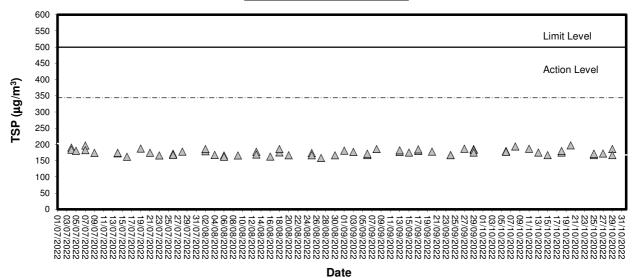
Monitoring	g Station	:	TM-	RA2							
Dete	Tir	me	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter W	'eight (g)	0
Date	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	- Conc. (μg/m ³)
06/10/22	10:00	11:00	30582.53	30583.53	1.00	1.1699	1.1699	1.1699	2.8570	2.8704	191
06/10/22	13:00	14:00	30583.53	30584.53	1.00	1.1393	1.1393	1.1393	2.8350	2.8477	186
08/10/22	13:30	14:30	30584.53	30585.53	1.00	1.2005	1.2005	1.2005	3.0528	3.0677	207
11/10/22	11:00	12:00	30609.53	30610.53	1.00	1.2311	1.2311	1.2311	3.0987	3.1136	202
13/10/22	11:00	12:00	30610.53	30611.53	1.00	1.2005	1.2005	1.2005	3.0309	3.0440	182
15/10/22	09:05	10:05	30611.53	30612.53	1.00	1.1699	1.1699	1.1699	3.0753	3.0878	178
18/10/22	09:50	10:50	30636.53	30637.53	1.00	1.1699	1.1699	1.1699	3.1087	3.1216	184
18/10/22	10:55	11:55	30637.53	30638.53	1.00	1.1699	1.1699	1.1699	3.1167	3.1303	194
20/10/22	09:15	10:15	30638.53	30639.53	1.00	1.2005	1.2005	1.2005	3.0785	3.0937	211
25/10/22	11:40	12:40	30663.53	30664.53	1.00	1.1699	1.1699	1.1699	3.0761	3.0884	175
25/10/22	13:20	14:20	30664.53	30665.53	1.00	1.1699	1.1699	1.1699	3.0934	3.1061	181
27/10/22	10:10	11:10	30665.53	30666.53	1.00	1.1393	1.1393	1.1393	3.0379	3.0500	177
29/10/22	08:50	09:50	30690.53	30691.53	1.00	1.2005	1.2005	1.2005	3.0871	3.1013	197
29/10/22	13:00	14:00	30691.53	30692.53	1.00	1.1699	1.1699	1.1699	3.0725	3.0850	178



Appendix B3

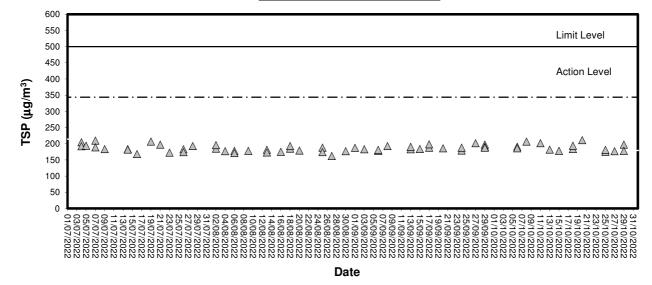
Graphical Plots of Impact Air Quality Monitoring Data



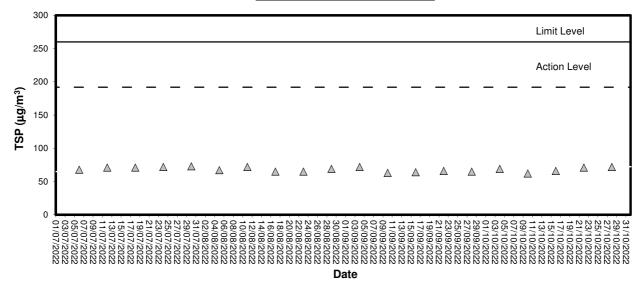


1-hour TSP level at TM-A1

1-hour TSP level at TM-RA2

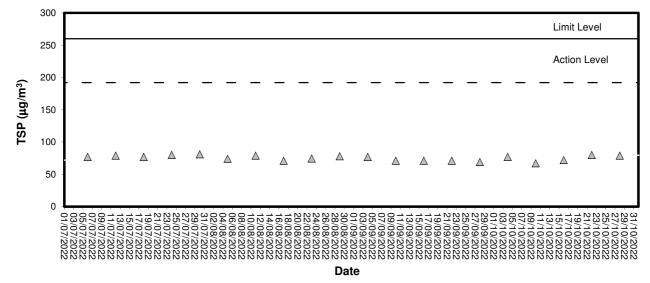






24-hour TSP level at TM-A1







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	:	8/30/2022	Calibration Due Date	:	11/29/2022

<u>Results</u>

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)
16.7	16.9	+0.2
25.0	25.2	+0.2
28.3	28.4	+0.1

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	1	24
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 (%)	
146.9	146.1	-0.5	
1412	1429	+1.2	
12890	12774	-0.9	
58760	59589	+1.4	

Tolerance Limit (μ S/cm): ± 10.0%

4. Salinity

(Method Reference: APHA 19ed 2520 B)

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
10.0	9.85	-1.5
20.0	19.23	-3.9
30.0	29.37	-2.1

. Tolerance Limit (g/L): ± 10.0%



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	:	8/30/2022	Calibration Due Date	:	11/29/2022	

5. Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	
1.95	1.91	-0.04	
4.64	4.61	-0.03	
6.13	6.18	+0.05	

Tolerance Limit (mg/L): ± 0.20

6. Turbidity

(Method Reference: APHA 19ed 2130 B)

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)	
10	9.9	-1.0	
40	39.1	-2.3	
100	102.8	+2.8	
400	392.9	-1.8	

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

01-

Approved by :

an.



Appendix C2

Impact Marine Water Quality Monitoring Results



Monitoring Station : TM-FC1

D :	- -	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salinit	y (ppt)	Dissolv	ed Oxygen	(mg/L)		d Oxygen tion (%)	Tu	rbidity (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
		29	Surface	1.0	28.2	31.3 31.2	31.3	6.18 5.94	6.06	5.80	94.1 89.2	91.7	3.35 3.37	3.36		2.7 1.8	2.3	
01/10/22	10:55:33		Middle	11.2	28.3	31.5 31.5	31.5	5.56 5.52	5.54	5.00	85.0 84.4	84.7	3.95 3.95	3.95	4.09	2.7 3.3	3.0	2.8
		/ Rainy	Bottom	21.5	28.3	31.8 31.8	31.8	5.30 5.27	5.29	5.29	81.2 80.8	81.0	4.91 5.02	4.97		3.1 2.9	3.0	
		30	Surface	1.0	28.8	30.3 30.3	30.3	5.57 5.59	5.58		85.4 85.7	85.6	0.87	0.88		3.2 3.3	3.3	
03/10/22	15:24:12		Middle	8.5	28.8	30.8 31.0	30.9	5.60 5.31	5.46	5.52	85.9 81.7	83.8	0.97	0.98	1.24	2.6 2.9	2.8	2.7
		/ Rainy	Bottom	16.1	28.8	32.5 32.7	32.6	5.10 5.06	5.08	5.08	79.0 78.5	78.8	1.87	1.86		1.6 2.6	2.1	
			Surface	1.0	29.0	29.9	29.9	5.74	5.75		88.1	88.1	0.92	0.92		3.8	4.2	
06/10/22	17:28:11	30	Middle	8.8	28.9	29.9 30.4	30.5	5.75 5.33	5.31	5.53	88.1 81.9	81.6	0.91	1.80	2.11	4.5 5.8	4.8	4.2
		/ Rainy	Bottom	16.7	28.8	30.7 31.7	31.9	5.28 5.13	5.10	5.10	81.2 79.3	78.9	1.81 3.59	3.63	-	3.7 3.7	3.6	-
			Surface	1.0	28.6	32.0 28.1	28.1	5.07 5.58	5.57		78.4 84.3	84.1	3.66 3.75	3.81		3.5 2.3	1.8	
08/10/22	17:00:54	30	Middle	11.4	28.7	28.1 28.6	28.6	5.55 5.22	5.21	5.39	83.8 79.0	78.9	3.87 5.31	5.32	5.20	1.2 4.1	4.5	2.7
00/10/22	17.00.04	/ Rainy				28.6 28.7		5.20 5.12		5 10	78.7 77.7		5.33 6.43		0.20	4.8 1.4		
			Bottom	21.8	28.7	28.7 28.7	28.7	5.12 5.63	5.12	5.12	77.6 84.0	77.7	6.50 6.83	6.47		2.1 2.8	1.8	
		29	Surface	1.0	27.8	28.7 28.9	28.7	5.63 5.59	5.63	5.61	84.0 83.7	84.0	6.94 7.29	6.89		2.2 2.1	2.5	
11/10/22	9:27:02	/ Rainy	Middle	10.1	27.9	29.0 29.2	29.0	5.57 5.54	5.58		83.5 83.2	83.6	7.28	7.29	7.68	1.7	1.9	2.6
		,	Bottom	19.2	27.9	29.2 29.0	29.2	5.54 5.88	5.54	5.54	83.1 87.2	83.2	8.87 5.42	8.87		3.4 9.0	3.4	
		28	Surface	1.0	27.2	29.0	29.0	5.88	5.88	5.87	87.1	87.2	5.49	5.46	-	8.9	9.0	-
13/10/22	9:47:11		Middle	9.9	27.2	29.0 29.0	29.0	5.86 5.84	5.85		86.8 86.6	86.7	6.27 6.28	6.28	6.84	8.0 7.1	7.6	7.5
		/ Rainy	Bottom	18.9	27.3	29.1 29.2	29.1	5.76 5.69	5.73	5.73	85.5 84.7	85.1	8.77 8.81	8.79		5.3 6.6	6.0	
		28	Surface	1.0	27.6	33.4 33.4	33.4	6.18 6.13	6.16	6.04	94.4 93.6	94.0	3.52 3.54	3.53		4.1 4.5	4.3	
15/10/22	10:54:33		Middle	11.2	27.2	33.6 33.6	33.6	5.94 5.89	5.92	0.04	90.3 89.5	89.9	4.42 4.44	4.43	4.16	5.3 4.5	4.9	4.5
		/ Rainy	Bottom	21.4	27.2	33.6 33.6	33.6	5.70 5.69	5.70	5.70	86.6 86.5	86.6	4.52 4.51	4.52		4.7 3.6	4.2	
		27	Surface	1.0	26.4	35.2 35.2	35.2	5.84 5.84	5.84	5.04	88.4 88.4	88.4	1.99 1.99	1.99		1.7 2.8	2.3	
19/10/22	16:33:40		Middle	11.0	26.4	35.2 35.2	35.2	5.83 5.83	5.83	5.84	88.3 88.2	88.3	1.98 1.98	1.98	2.05	1.8 3.0	2.4	2.8
		/ Rainy	Bottom	21.1	26.4	35.2 35.2	35.2	5.81 5.80	5.81	5.81	87.9 87.9	87.9	2.14 2.19	2.17		3.6 4.0	3.8	
		26	Surface	1.0	25.2	30.2 30.1	30.2	6.63 6.57	6.60		95.6 95.0	95.3	3.42 3.42	3.42		5.5 5.1	5.3	
21/10/22	16:26:02		Middle	11.2	25.4	30.1 30.1	30.1	6.31 6.29	6.30	6.45	91.2 91.0	91.1	4.13	4.13	4.31	7.3	7.0	5.8
		/ Rainy	Bottom	21.3	25.4	30.1 30.1	30.1	6.22	6.22	6.22	90.0	89.9	5.39	5.39		6.4 3.9	5.2	
		07	Surface	1.0	25.7	34.5	34.5	6.21 6.72	6.70		89.8 100.1	99.9	5.38 2.14	2.17		3.1	2.9	
23/10/22	16:30:40	27	Middle	11.4	25.8	34.5 34.8	34.8	6.68 6.17	6.16	6.43	99.6 92.2	92.0	2.20	1.24	1.76	2.7 1.8	2.5	2.6
		/ Rainy	Bottom	21.9	26.0	34.8 35.1	35.1	6.14 5.82	5.82	5.82	91.8 87.4	87.4	1.24 1.87	1.87		3.1 3.3	2.6	
			Surface	1.0	25.8	35.1 34.9	34.9	5.82 5.92	5.92		87.4 88.5	88.5	1.87 1.65	1.63		1.8 5.4	5.6	
25/10/22	18:16:20	27	Middle	10.2	25.8	34.9 34.9	34.9	5.92 5.87	5.86	5.89	88.5 87.8	87.7	1.61 2.66	2.69	2.76	5.7 5.5	5.9	6.5
20/10/22	10.10.20	/ Rainy				34.9 34.9		5.85 5.81		E 04	87.6 87.0		2.72 3.90		2.70	6.2 8.9		0.0
			Bottom	19.5	25.8	34.9 34.1	34.9	5.81 6.66	5.81	5.81	86.9 98.6	87.0	4.02 2.72	3.96		7.0 3.0	8.0	
		26	Surface	1.0	25.5	34.1 34.1	34.1	6.66 6.57	6.66	6.61	98.7 97.2	98.7	2.70 4.49	2.71		3.5 7.1	3.3	
27/10/22	9:46:19	/ Rainy	Middle	10.0	25.4	34.1 34.2	34.1	6.56 6.50	6.57		97.0 96.2	97.1	4.51	4.50	4.77	4.5	5.8	4.4
		, ricitly	Bottom	19.0	25.4	34.2	34.2	6.46	6.48	6.48	95.6	95.9	7.14	7.11		3.4	4.2	
		27	Surface	1.0	25.6	33.9 33.9	33.9	6.84 6.84	6.84	6.78	101.3 101.3	101.3	2.13 2.11	2.12		6.1 6.2	6.2	
29/10/22	10:24:31	(5)	Middle	10.9	25.5	33.9 33.9	33.9	6.73 6.72	6.73		99.6 99.4	99.5	3.35 3.41	3.38	3.89	7.4 6.5	7.0	6.5
		/ Rainy	Bottom	20.9	25.4	33.9 33.9	33.9	6.61 6.59	6.60	6.60	97.6 97.4	97.5	6.19 6.13	6.16		6.0 6.9	6.5	



Monitoring Station : TM-FM1

Monitori		Ambient			-	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen	TI	rbidity (NT	10	Suspe	nded Solids	s (ma/L)
Date	Time	Temp (°C) / Weather Condition		ng Depth m)	Temp (°C)	Value	Average	Value	Average	Depth-	Satura Value	tion (%) Average	Value	Average	Depth-	Value	Average	Depth-
			Surface	1.0	28.5	31.0	31.0	5.70	5.69	average	87.1	86.9	3.30	3.27	average	3.0	2.9	average
01/10/00	10.05.00	29				31.0 31.1		5.67 5.48		5.57	86.7 83.8		3.23 3.45			2.7 2.7		
01/10/22	10:35:00	/ Rainy	Middle	8.8	28.4	31.2 31.4	31.1	5.44 5.32	5.46		83.2 81.3	83.5	3.53 4.67	3.49	3.82	2.1 1.3	2.4	2.2
		/ nainy	Bottom	16.7	28.3	31.5	31.4	5.31	5.32	5.32	81.2	81.3	4.76	4.72		1.1	1.2	
		30	Surface	1.0	28.9	30.3 30.3	30.3	5.73 5.73	5.73	5.50	87.8 87.8	87.8	0.80	0.81		5.0 5.2	5.1	
03/10/22	15:08:00		Middle	8.5	28.8	30.8 31.1	31.0	5.41 5.35	5.38	5.56	83.1 82.3	82.7	0.96	0.99	1.14	4.5 4.6	4.6	4.6
		/ Rainy	Bottom	15.9	28.8	32.4	32.5	5.17	5.15	5.15	80.1	79.8	1.62	1.64		4.1	4.1	
				1.0	29.0	32.6 29.9	29.9	5.13 5.71	5.72		79.5 87.5	87.6	1.65 0.91	0.91		4.0 5.0	4.8	
		30	Surface			29.9 31.1		5.72 5.22		5.46	87.6 80.4		0.90			4.5 4.5		
06/10/22	17:03:53		Middle	9.1	28.9	31.2	31.1	5.19	5.21		80.1	80.3	2.05	2.04	2.18	3.3	3.9	4.3
		/ Rainy	Bottom	17.2	28.8	31.8 32.0	31.9	5.06 5.03	5.05	5.05	78.3 77.7	78.0	3.61 3.58	3.60		4.5 3.8	4.2	
		30	Surface	1.0	28.5	28.1 28.1	28.1	5.62 5.57	5.60		84.8 84.0	84.4	2.28 2.25	2.27		3.2 3.7	3.5	
08/10/22	17:20:02		Middle	8.5	28.7	28.3	28.3	5.22	5.22	5.41	78.9	78.9	3.48	3.49	3.96	1.3	1.6	2.8
		/ Rainy	Bettem	16.0	28.7	28.4 28.7	00.7	5.21 5.15	5.15	5.15	78.8 78.0	78.0	3.50 6.16	6.13		1.9 4.1	24	
			Bottom	16.0		28.7 28.7	28.7	5.14 5.63	5.15	5.15	77.9 84.1		6.10 6.51	6.13		2.6 5.7	3.4	
		29	Surface	1.0	27.8	28.6	28.6	5.64	5.64	5.60	84.2	84.2	6.58	6.55		4.1	4.9	
11/10/22	9:11:09		Middle	9.0	27.9	29.3 29.2	29.2	5.57 5.56	5.57		83.6 83.5	83.6	7.23 7.19	7.21	7.38	5.6 5.9	5.8	4.8
		/ Rainy	Bottom	17.0	27.9	29.3 29.3	29.3	5.55 5.54	5.55	5.55	83.3 83.3	83.3	8.41 8.38	8.40		3.3 4.1	3.7	
			Surface	1.0	27.2	29.0	29.0	5.88	5.88		87.1	87.1	5.55	5.57		6.3	5.4	
13/10/22	9:33:55	28	Middle	9.1	27.2	29.0 29.0	29.0	5.88 5.86	5.86	5.87	87.1 86.9	86.8	5.58 6.04	6.07	6.86	4.5 6.2	6.3	5.8
13/10/22	9.00.00	/ Rainy				29.0 29.1		5.85 5.78			86.7 85.8		6.09 8.92		0.00	6.4 6.1		5.0
			Bottom	17.2	27.3	29.1	29.1	5.75	5.77	5.77	85.4	85.6	8.99	8.96		5.5	5.8	
		28	Surface	1.0	26.8	33.9 33.8	33.8	5.97 5.93	5.95	5.79	90.2 89.8	90.0	3.73 3.77	3.75		4.9 5.4	5.2	
15/10/22	10:34:25		Middle	8.9	27.2	33.6 33.6	33.6	5.62 5.62	5.62	5.75	85.5 85.3	85.4	4.32 4.33	4.33	4.22	4.2 4.8	4.5	4.7
		/ Rainy	Bottom	16.9	27.2	33.6	33.6	5.57	5.57	5.57	84.7	84.7	4.58	4.57		5.4	4.5	
			Surface	1.0	26.4	33.6 35.2	35.2	5.57 5.82	5.82		84.6 88.2	88.2	4.56 2.09	2.07		3.5 4.6	4.8	
		27				35.2 35.2		5.82 5.82		5.82	88.2 88.1		2.04 2.29			5.0 2.1		
19/10/22	16:07:17	/ Rainy	Middle	9.4	26.4	35.2	35.2	5.82	5.82		88.1	88.1	2.33	2.31	2.28	3.1	2.6	3.5
		/ nainy	Bottom	17.9	26.4	35.2 35.2	35.2	5.80 5.80	5.80	5.80	87.9 87.8	87.9	2.43 2.52	2.48		2.1 3.9	3.0	
		26	Surface	1.0	25.2	30.2 30.1	30.1	6.60 6.55	6.58		95.2 94.6	94.9	3.36 3.40	3.38		7.2 7.6	7.4	
21/10/22	16:06:02		Middle	8.8	25.4	30.1 30.1	30.1	6.28 6.27	6.28	6.43	90.7 90.6	90.7	4.18 4.20	4.19	4.11	5.2 5.0	5.1	5.8
		/ Rainy	Bottom	16.5	25.4	30.1	30.1	6.21	6.21	6.21	89.8	89.8	4.71	4.75		5.3	4.8	
						30.1 35.0		6.21 6.80			89.8 100.7		4.78 2.13			4.2 2.3		
		27	Surface	1.0	25.2	35.0 34.8	35.0	6.79 6.24	6.80	6.51	100.7 93.2	100.7	2.17 1.11	2.15		3.8 3.7	3.1	
23/10/22	16:51:35		Middle	8.3	25.8	34.8	34.8	6.21	6.23		92.8	93.0	1.13	1.12	1.66	4.4	4.1	3.2
		/ Rainy	Bottom	15.6	25.9	35.1 35.1	35.1	5.99 5.97	5.98	5.98	89.9 89.6	89.8	1.69 1.74	1.72		3.0 1.9	2.5	
		27	Surface	1.0	25.8	34.9 34.9	34.9	5.88 5.88	5.88		88.0 88.1	88.1	1.81 1.85	1.83		7.7 6.2	7.0	
25/10/22	18:01:40		Middle	9.3	25.8	34.9	34.9	5.85	5.85	5.86	87.5	87.5	2.59	2.61	2.73	6.1	5.8	6.5
		/ Rainy	Bottom	17.6	25.8	34.9 34.9	34.9	5.84 5.81	5.81	5.81	87.4 86.9	86.9	2.63 3.73	3.75		5.4 5.8	6.9	
						34.9 34.1		5.81 6.68		5.01	86.9 98.9		3.76 2.35			7.9 5.3		
		26	Surface	1.0	25.5	34.1	34.1	6.67	6.68	6.65	98.8	98.9	2.38	2.37		5.0	5.2	
27/10/22	9:32:08		Middle	9.2	25.4	34.1 34.1	34.1	6.64 6.62	6.63		98.3 98.0	98.2	3.93 4.06	4.00	4.45	4.3 4.6	4.5	4.3
		/ Rainy	Bottom	17.3	25.4	34.2 34.2	34.2	6.52 6.51	6.52	6.52	96.5 96.3	96.4	7.05 6.93	6.99		3.5 3.3	3.4	
		26	Surface	1.0	24.9	34.3 34.2	34.2	6.84 6.80	6.82		100.4 99.9	100.2	2.30	2.34		7.2	7.2	
29/10/22	10:04:22	26	Middle	9.2	25.5	33.8	33.8	6.56	6.55	6.69	97.0	96.9	2.95	3.00	3.59	5.0	5.9	6.5
		/ Rainy				33.8 33.8		6.54 6.46		0.40	96.7 95.5		3.04 5.41		5.00	6.7 7.7		0.0
		-	Bottom	17.4	25.4	33.8	33.8	6.45	6.46	6.46	95.4	95.5	5.48	5.45		5.4	6.6	



Monitoring Station : TM-FM2

Monitorir		Ambient	Manitari		Temp	Salinit	ty (ppt)	Dissolv	red Oxygen	(mg/L)		d Oxygen	Tu	irbidity (NT	U)	Susper	nded Solid:	s (mg/L)
Date	Time	Temp (°C) / Weather Condition		ng Depth n)	(°C)	Value	Average	Value	Average	Depth- average	Satura Value	tion (%) Average	Value	Average	Depth- average	Value	Average	Depth- average
		29	Surface	1.0	28.2	31.1 31.0	31.0	5.91 5.82	5.87		89.9 88.7	89.3	3.28 3.31	3.30	average	1.9 2.0	2.0	average
01/10/22	10:19:00	20	Middle	8.8	28.4	31.0	31.1	5.51	5.49	5.68	84.3	84.0	3.49	3.52	3.72	1.0	1.1	1.6
		/ Rainy	Bottom	16.6	28.3	31.1 31.3	31.3	5.47 5.36	5.36	5.36	83.7 81.9	81.9	3.55 4.32	4.34		1.2 1.7	1.7	-
			Surface	1.0	28.9	31.3 30.3	30.3	5.35 5.72	5.73		81.8 87.8	87.8	4.36 0.78	0.79		1.7 2.6	3.1	
		30				30.3 31.1		5.73 5.35		5.54	87.8 82.4		0.80 0.97			3.6 8.2		
03/10/22	14:42:59	/ Rainy	Middle	8.4	28.8	31.3 32.1	31.2	5.34 5.23	5.35		82.2 80.8	82.3	1.05 1.37	1.01	1.06	7.1 6.3	7.7	5.7
		/ ricarry	Bottom	15.7	28.8	32.4	32.3	5.16	5.20	5.20	79.9	80.4	1.38	1.38		6.5	6.4	
		30	Surface	1.0	28.9	29.9 29.9	29.9	5.74 5.74	5.74	5.48	87.9 88.0	88.0	0.99 0.99	0.99		2.5 5.1	3.8	
06/10/22	16:45:59		Middle	9.0	28.9	30.9 31.2	31.0	5.24 5.21	5.23		80.7 80.3	80.5	1.99 1.94	1.97	2.25	3.8 4.2	4.0	4.2
		/ Rainy	Bottom	17.0	28.8	31.7 31.9	31.8	5.10 5.04	5.07	5.07	78.7 78.0	78.4	3.76 3.84	3.80		5.1 4.2	4.7	
		30	Surface	1.0	28.4	28.6 28.4	28.5	5.62 5.55	5.59		84.8 83.7	84.3	4.35 4.27	4.31		2.9 2.7	2.8	
08/10/22	17:37:03		Middle	8.3	28.7	28.5	28.5	5.27	5.26	5.42	79.8	79.6	5.62	5.62	5.36	2.2	2.8	2.3
		/ Rainy	Bottom	15.5	28.7	28.5 28.6	28.6	5.24 5.16	5.16	5.16	79.4 78.1	78.1	5.61 6.11	6.14		3.4 1.3	1.2	-
			Surface	1.0	27.9	28.7 29.2	29.2	5.15 5.61	5.61		78.0 84.2	84.2	6.17 6.92	6.91		1.0 3.1	4.2	
		29				29.2 29.2		5.61 5.59		5.60	84.2 83.9		6.90 7.34			5.3 4.8		
11/10/22	8:48:08	/ Rainy	Middle	8.1	27.9	29.2 29.3	29.2	5.58 5.56	5.59		83.8 83.5	83.9	7.34 8.12	7.34	7.47	6.0 3.5	5.4	4.7
		/ Hailiy	Bottom	15.2	27.9	29.3	29.3	5.56	5.56	5.56	83.5	83.5	8.22	8.17		5.3	4.4	
		28	Surface	1.0	27.2	29.0 29.0	29.0	5.90 5.89	5.90	5.87	87.3 87.3	87.3	5.30 5.33	5.32		5.1 5.9	5.5	
13/10/22	9:16:13		Middle	8.1	27.2	29.1 29.1	29.1	5.84 5.83	5.84		86.6 86.4	86.5	5.94 6.02	5.98	6.76	4.3 4.4	4.4	6.0
		/ Rainy	Bottom	15.2	27.3	29.1 29.1	29.1	5.71 5.71	5.71	5.71	84.8 84.7	84.8	9.07 8.91	8.99		7.6 8.6	8.1	
		28	Surface	1.0	27.2	33.6 33.6	33.6	5.98 5.94	5.96		90.8 90.3	90.6	2.79 2.82	2.81		7.7 7.8	7.8	
15/10/22	10:18:27		Middle	8.7	27.2	33.6 33.6	33.6	5.64 5.63	5.64	5.80	85.7 85.5	85.6	3.62 3.59	3.61	3.72	6.2 5.5	5.9	6.4
		/ Rainy	Bottom	16.5	27.2	33.6	33.6	5.59	5.59	5.59	84.9	84.9	4.75	4.76		6.7	5.5	
			Surface	1.0	26.5	33.6 35.2	35.2	5.59 5.82	5.82		84.8 88.3	88.3	4.76 1.74	1.76		4.2 3.1	2.8	
19/10/22	15:40:31	28	Middle	9.3	26.5	35.2 35.2	35.2	5.82 5.81	5.81	5.82	88.3 88.1	88.1	1.78 1.79	1.78	1.95	2.5 4.9	4.7	3.1
13/10/22	13.40.51	/ Rainy				35.2 35.2		5.81 5.80			88.1 87.9		1.77 2.26		1.55	4.4 1.7		0.1
			Bottom	17.6	26.5	35.2 30.2	35.2	5.80 6.49	5.80	5.80	87.8 93.6	87.9	2.36 3.26	2.31		2.0 4.8	1.9	
		26	Surface	1.0	25.3	30.1	30.1	6.44	6.47	6.39	93.0	93.3	3.34	3.30		5.7	5.3	
21/10/22	15:50:02		Middle	8.8	25.5	30.0 30.0	30.0	6.33 6.31	6.32		91.6 91.3	91.5	3.79 3.89	3.84	3.99	6.3 4.7	5.5	5.5
		/ Rainy	Bottom	16.6	25.4	30.1 30.1	30.1	6.21 6.20	6.21	6.21	89.8 89.7	89.8	4.80 4.87	4.84		6.5 5.0	5.8	
		27	Surface	1.0	25.7	34.6 34.6	34.6	6.64 6.62	6.63	6.04	99.0 98.6	98.8	1.53 1.57	1.55		3.7 2.6	3.2	
23/10/22	17:16:35		Middle	8.9	25.8	34.9 35.0	35.0	6.05 6.04	6.05	6.34	90.6 90.4	90.5	1.23 1.27	1.25	1.58	1.4 3.3	2.4	2.9
		/ Rainy	Bottom	16.9	26.0	35.1 35.1	35.1	5.88 5.87	5.88	5.88	88.2 88.1	88.2	1.94	1.95		2.2 3.9	3.1	1
		67	Surface	1.0	25.9	34.9	34.9	5.88	5.88		88.0	88.0	2.20	2.20		6.7	6.8	
25/10/22	17:44:08	27	Middle	8.4	25.9	34.9 34.9	34.9	5.88 5.86	5.86	5.87	88.0 87.8	87.7	2.20 2.45	2.47	2.74	6.8 7.1	7.3	7.0
		/ Rainy	Bottom	15.8	25.8	34.9 34.9	34.9	5.85 5.82	5.82	5.82	87.6 87.0	87.1	2.49 3.53	3.54		7.4 7.3	7.1	
						34.9 34.1		5.82 6.71		J.02	87.1 99.3		3.54 2.36			6.8 3.6		
		26	Surface	1.0	25.5	34.1 34.1	34.1	6.71 6.64	6.71	6.67	99.3 98.2	99.3	2.38	2.37		4.2	3.9	-
27/10/22	9:15:19	(D-:	Middle	8.2	25.4	34.1	34.1	6.62	6.63		97.9	98.1	4.25	4.20	4.34	4.3	4.3	4.0
		/ Rainy	Bottom	15.4	25.4	34.2 34.2	34.2	6.57 6.55	6.56	6.56	97.1 96.9	97.0	6.43 6.49	6.46		4.1 3.7	3.9	
		27	Surface	1.0	25.5	33.8 33.8	33.8	6.51 6.51	6.51	6.48	96.4 96.3	96.4	2.26 2.25	2.26		3.8 5.1	4.5	
29/10/22	9:48:44		Middle	8.7	25.5	33.8 33.8	33.8	6.45 6.45	6.45	0.40	95.4 95.3	95.4	4.24 4.24	4.24	3.95	5.9 4.3	5.1	4.9
		/ Rainy	Bottom	16.4	25.5	33.8 33.8	33.8	6.43 6.43	6.43	6.43	95.0 95.0	95.0	5.37 5.32	5.35		5.2 4.9	5.1	1
		1	1			55.0	1	0.40	1		33.0		0.02	1		7.0		1



Monitoring Station :

TM-FC2

Monitorii	J	Ambient	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	ed Oxygen	(mg/L)		d Oxygen tion (%)	Tu	rbidity (NT	U)	Susper	ided Solids	s (mg/L)
Date	Time	Temp (°C) / Weather Condition		ng Depth n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		29	Surface	1.0	28.4	30.9 30.9	30.9	5.70 5.66	5.68	avolugo	87.0 86.4	86.7	3.89 3.92	3.91	avorago	2.4	2.1	aronago
01/10/22	10:01:00	29	Middle	8.7	28.4	31.0	31.0	5.50	5.47	5.58	84.0	83.6	3.92	3.82	4.35	1.7 2.2	2.4	2.6
		/ Rainy				31.0 31.6		5.44 5.28			83.2 80.9		3.86 5.30			2.6 3.3		
		,	Bottom	16.3	28.3	31.6	31.6	5.25	5.27	5.27	80.4	80.7	5.34	5.32		3.6	3.5	
		30	Surface	1.0	28.8	30.4 30.4	30.4	5.71 5.71	5.71	5.47	87.5 87.5	87.5	0.86 0.84	0.85		3.9 3.7	3.8	
03/10/22	14:19:03		Middle	8.5	28.8	31.8 32.0	31.9	5.23 5.21	5.22	5.47	80.8 80.6	80.7	1.21 1.30	1.26	1.23	6.3 4.4	5.4	5.9
		/ Rainy	Bottom	16.1	28.8	32.5	32.6	5.10	5.08	5.08	79.0	78.7	1.55	1.57		8.5	8.5	
			0	1.0	00.0	32.7 29.9	00.0	5.06 5.75	5 70		78.4 88.2	00.0	1.59 0.90	0.00		8.5 5.5	4.0	
		30	Surface	1.0	29.0	29.9 30.6	29.9	5.76 5.29	5.76	5.51	88.2 81.3	88.2	0.88	0.89		3.7	4.6	
06/10/22	16:20:03		Middle	8.9	28.9	30.9	30.7	5.25	5.27		80.9	81.1	1.89	1.88	2.27	4.0 4.6	4.3	4.2
		/ Rainy	Bottom	16.8	28.9	31.6 31.8	31.7	5.14 5.08	5.11	5.11	79.3 78.5	78.9	4.05	4.04		4.5 2.8	3.7	
-		30	Surface	1.0	28.6	28.6	28.6	5.29 5.27	5.28		80.0	79.9	4.83	4.83		2.5	2.7	
08/10/22	17:55:55	30	Middle	8.3	28.7	28.6 28.6	28.6	5.27	5.20	5.24	79.8 78.8	78.8	4.82 6.00	6.03	5.83	2.8 5.2	5.6	3.4
00/10/22	17.00.00	/ Rainy				28.6 28.6		5.20 5.16			78.7 78.1		6.06 6.61		0.00	5.9 2.6		0.4
			Bottom	15.6	28.7	28.7	28.7	5.15	5.16	5.16	78.0	78.1	6.63	6.62		1.5	2.1	
		29	Surface	1.0	27.9	29.3 29.3	29.3	5.69 5.67	5.68	5.65	85.5 85.2	85.4	6.67 6.87	6.77		6.8 5.0	5.9	
11/10/22	8:30:56		Middle	8.2	27.9	29.3 29.3	29.3	5.62 5.62	5.62	5.65	84.4 84.3	84.4	6.97 6.91	6.94	7.84	3.2 4.5	3.9	4.4
		/ Rainy	Bottom	15.5	27.9	29.3	29.3	5.57	5.57	5.57	83.6	83.6	9.74	9.81		3.4	3.4	
			0	1.0	07.0	29.3 29.0	00.0	5.56 6.02	6.00		83.6 89.2	00.4	9.87 5.17	5.45		3.3 6.0		
		28	Surface	1.0	27.2	29.0 29.0	29.0	6.01 5.90	6.02	5.96	89.0 87.4	89.1	5.12 5.99	5.15		6.5	6.3	
13/10/22	9:00:05		Middle	8.1	27.2	29.0	29.0	5.90	5.90		87.4	87.4	5.91	5.95	6.80	8.6 7.5	8.1	7.0
		/ Rainy	Bottom	15.2	27.3	29.1 29.1	29.1	5.82 5.80	5.81	5.81	86.4 86.0	86.2	9.04 9.59	9.32		6.4 6.9	6.7	
		00	Surface	1.0	27.2	33.6 33.6	33.6	5.95 5.92	5.94		90.4 89.9	90.2	3.49 3.42	3.46		3.5	3.5	
15/10/22	10:00:28	28	Middle	8.9	27.2	33.6	33.6	5.92	5.72	5.83	89.9 87.0	86.8	3.42 4.14	4.16	4.02	3.5 4.1	4.8	6.0
13/10/22	10.00.20	/ Rainy				33.6 33.6		5.70 5.60			86.6 85.0		4.18 4.41		4.02	5.5 10.5		0.0
		,	Bottom	16.7	27.2	33.6	33.6	5.58	5.59	5.59	84.8	84.9	4.47	4.44		8.8	9.7	
		28	Surface	1.0	26.5	35.2 35.2	35.2	5.82 5.82	5.82	5.81	88.3 88.3	88.3	1.79 1.79	1.79		2.2 4.0	3.1	
19/10/22	15:16:29		Middle	9.2	26.5	35.2 35.2	35.2	5.80 5.80	5.80	5.01	87.9 87.9	87.9	2.37 2.40	2.39	2.28	2.9 4.2	3.6	3.1
		/ Rainy	Bottom	17.5	26.5	35.2	35.2	5.79	5.79	5.79	87.8	87.8	2.67	2.66		2.2	2.6	
			Surface	1.0	25.3	35.2 30.1	30.1	5.79 6.55	6.53		87.8 94.5	94.3	2.65 3.30	3.35		3.0 5.9	5.8	
		26	Sunace	1.0	20.0	30.0 30.0	30.1	6.50 6.29	0.00	6.40	94.0 91.0		3.39 3.95	3.33		5.6 5.2	5.6	
21/10/22	15:31:07		Middle	8.5	25.4	30.1	30.0	6.27	6.28		90.7	90.9	4.01	3.98	4.30	6.5	5.9	6.0
		/ Rainy	Bottom	16.0	25.4	30.1 30.1	30.1	6.22 6.21	6.22	6.22	89.9 89.8	89.9	5.52 5.61	5.57		5.7 7.2	6.5	
		27	Surface	1.0	25.3	34.9 34.9	34.9	6.70 6.68	6.69		99.5 99.2	99.4	1.92 1.96	1.94		3.2 1.4	2.3	
23/10/22	17:36:37		Middle	8.9	25.8	34.8	34.8	6.26	6.24	6.46	93.5	93.2	1.10	1.11	1.58	2.9	2.7	3.2
		/ Rainy				34.8 35.1		6.21 6.02		0.01	92.8 90.3		1.12 1.67			2.5 3.8		
		-	Bottom	16.8	25.9	35.1 34.9	35.1	6.00 5.91	6.01	6.01	90.0 88.4	90.2	1.73 2.00	1.70		5.4	4.6	
		27	Surface	1.0	25.8	34.9	34.9	5.91	5.91	5.88	88.4	88.4	2.02	2.01		5.0 6.4	5.7	
25/10/22	17:30:22		Middle	8.0	25.8	34.9 34.9	34.9	5.86 5.85	5.86	5.00	87.7 87.5	87.6	2.58 2.46	2.52	2.77	5.1 5.8	5.5	6.1
		/ Rainy	Bottom	15.1	25.8	34.9	34.9	5.84	5.84	5.84	87.4	87.4	3.74	3.79	1	7.9	7.2	1
			Surface	1.0	25.5	34.9 34.0	34.0	5.84 7.06	7.05		87.4 104.4	104.3	3.83 2.96	2.95		6.4 3.8	3.5	
		26				34.0 34.1		7.04 6.87		6.96	104.2 101.6		2.93 4.27			3.2 3.5		
27/10/22	9:00:32		Middle	8.1	25.4	34.1	34.1	6.85	6.86		101.2	101.4	4.31	4.29	4.91	3.8	3.7	3.6
		/ Rainy	Bottom	15.3	25.4	34.2 34.2	34.2	6.67 6.65	6.66	6.66	98.7 98.4	98.6	7.56 7.43	7.50		3.7 3.8	3.8	
		26	Surface	1.0	25.3	34.0 33.9	34.0	6.56 6.56	6.56		96.8 96.8	96.8	2.47 2.48	2.48		5.0	5.8	
29/10/22	9:30:23	20	Middle	8.5	25.5	33.8	33.8	6.45	6.45	6.51	95.4	95.4	4.30	4.32	4.22	6.6 7.5	6.0	6.0
		/ Rainy				33.8 33.8		6.45 6.40			95.3 94.6		4.33 5.84			4.4 6.0		
			Bottom	16.0	25.5	33.8	33.8	6.40	6.40	6.40	94.6	94.6	5.90	5.87		6.4	6.2	



Monitoring Station : TM-FC1

Monitorii	-	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salinit	ty (ppt)	Dissolv	ved 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
		29	Surface	1.0	28.2	31.2 31.2	31.2	5.96 5.85	5.91		90.9 86.3	88.6	3.35 3.33	3.34		2.8 2.5	2.7	
01/10/22	15:31:01	20	Middle	10.9	28.3	31.3	31.4	5.44	5.43	5.67	83.2	83.1	4.59	4.63	4.49	2.4	2.4	3.0
		/ Rainy				31.4 31.6		5.42 5.27			82.9 80.6		4.67 5.45			2.3 4.1		
		,	Bottom	20.9	28.3	31.7	31.7	5.24	5.26	5.26	80.3	80.5	5.55	5.50		3.6	3.9	
		30	Surface	1.0	28.8	30.4 30.4	30.4	5.79 5.78	5.79		88.7 88.7	88.7	0.86	0.86		7.5 6.1	6.8	
03/10/22	9:46:29		Middle	9.0	28.8	30.8	30.8	5.67	5.66	5.72	87.0	86.9	1.02	1.02	1.06	6.8	6.9	7.2
		/ Rainy	Bottom	17.1	28.7	30.8 32.3	32.4	5.65 5.18	5.17	5.17	86.8 80.1	80.0	1.02 1.29	1.31		6.9 8.5	7.9	
			Бошотт	17.1	20.7	32.5 30.2	32.4	5.16 5.73	5.17	5.17	79.9 87.9	00.0	1.32 0.82	1.31		7.3 3.9	7.9	
		30	Surface	1.0	28.9	30.2	30.3	5.73	5.73	5.50	87.8	87.9	0.84	0.83		4.2	4.1	
06/10/22	9:53:09		Middle	10.5	28.8	31.0 31.4	31.2	5.29 5.24	5.27	0.00	81.4 80.7	81.1	1.03	1.07	1.89	4.6 5.3	5.0	4.5
		/ Rainy	Bottom	19.9	28.8	31.7	31.8	5.16	5.13	5.13	79.7	79.3	3.77	3.77		4.5	4.6	
						32.0 28.3		5.10 5.62			78.9 84.6		3.77 2.52			4.7 2.3	1	
		30	Surface	1.0	28.4	28.3	28.3	5.59	5.61	5.40	84.2	84.4	2.46	2.49		3.2	2.8	-
08/10/22	11:55:55		Middle	10.9	28.7	28.4 28.4	28.4	5.19 5.19	5.19		78.6 78.5	78.6	4.26	4.30	4.79	2.4 3.5	3.0	2.9
		/ Rainy	Bottom	20.8	28.7	28.8	28.8	5.11	5.11	5.11	77.5	77.5	7.56	7.59		2.4	3.0	
			Quarte e e	1.0	07.0	28.8 28.7	00.7	5.11 5.62	5.00		77.4 84.0	04.0	7.62 9.50	0.50		3.6 4.0		
		29	Surface	1.0	27.8	28.7	28.7	5.62	5.62	5.60	83.9	84.0	9.54	9.52		3.8	3.9	-
11/10/22	13:00:11		Middle	9.9	27.9	29.0 29.1	29.1	5.58 5.56	5.57		83.5 83.4	83.5	9.71 9.72	9.72	9.18	4.3 2.5	3.4	3.7
		/ Rainy	Bottom	18.8	27.9	29.2 29.3	29.2	5.53 5.52	5.53	5.53	83.0 82.9	83.0	8.31 8.32	8.32		4.6 2.7	3.7	
			Surface	1.0	27.2	29.3	29.0	5.89	5.89		87.3	87.3	5.55	5.55		5.4	5.9	
		28	Sunace	1.0	21.2	29.0 29.1	29.0	5.89 5.86	5.69	5.87	87.3 86.9	07.3	5.55 6.30	5.55		6.3 6.1	5.9	-
13/10/22	14:00:15		Middle	10.1	27.2	29.1	29.1	5.84	5.85		86.6	86.8	6.29	6.30	7.19	6.6	6.4	7.5
		/ Rainy	Bottom	19.2	27.3	29.1 29.1	29.1	5.72 5.72	5.72	5.72	84.9 84.8	84.9	9.73 9.74	9.74		9.5 10.9	10.2	
			Surface	1.0	27.2	33.6	33.6	5.64	5.64		85.6	85.6	3.00	2.97		7.6	7.8	
		28				33.6 33.6		5.64 5.61		5.63	85.6 85.3		2.93 4.58			8.0 6.3	-	-
15/10/22	15:30:23		Middle	10.9	27.2	33.6	33.6	5.61	5.61		85.2	85.3	4.66	4.62	4.40	7.2	6.8	7.6
		/ Rainy	Bottom	20.9	27.2	33.6 33.6	33.6	5.57 5.57	5.57	5.57	84.7 84.6	84.7	5.56 5.69	5.63		9.1 7.3	8.2	
			Surface	1.0	26.5	35.2	35.2	6.12	6.11		92.8	92.6	1.62	1.60		2.8	3.8	
10/10/00	9:11:56	28	N di al all a	40.7	00.5	35.2 35.2	05.0	6.10 5.92	5.00	6.02	92.4 89.8	00.0	1.57 1.87	4.00	4.00	4.7 3.9	10	0.7
19/10/22	9:11:56	/ Rainy	Middle	10.7	26.5	35.2	35.2	5.92	5.92		89.7	89.8	1.89	1.88	1.90	4.4	4.2	3.7
		/ nainy	Bottom	20.4	26.5	35.2 35.2	35.2	5.87 5.86	5.87	5.87	89.0 88.9	89.0	2.23 2.21	2.22		4.0 2.5	3.3	
		26	Surface	1.0	25.5	30.0 30.0	30.0	6.75 6.50	6.63		97.6 94.1	95.9	3.69 3.56	3.63		8.8 7.1	8.0	
21/10/22	10:01:14	20	Middle	10.9	25.4	30.1	30.1	6.35	6.34	6.48	91.9	91.8	4.74	4.78	4.67	6.2	5.1	6.2
		/ Rainy				30.1 30.1		6.33 6.24			91.6 90.2		4.82 5.64			4.0 5.9	-	
		,	Bottom	20.8	25.4	30.1	30.1	6.22	6.23	6.23	89.9	90.1	5.55	5.60		4.9	5.4	
		27	Surface	1.0	25.7	34.5 34.5	34.5	6.70 6.67	6.69	<i></i>	99.8 99.4	99.6	2.96 3.03	3.00		3.5 3.6	3.6	
23/10/22	12:10:30		Middle	11.7	25.8	34.8	34.8	6.19	6.19	6.44	92.5	92.5	1.10	1.11	2.08	3.1	4.5	3.5
		/ Rainy	Bottom	00.4	26.0	34.9 35.1	25.4	6.18 5.88	E 00	E 00	92.4 88.3		1.11 2.12	0.14		5.9 1.1	0.0	
			Bottom	22.4	26.0	35.1	35.1	5.87	5.88	5.88	88.1 96.0	88.2	2.16	2.14		3.5 5.5	2.3	
		27	Surface	1.0	25.8	34.9 34.9	34.9	6.42 6.37	6.40	6.28	95.3	95.7	3.15 3.12	3.14		5.5 6.5	6.0	
25/10/22	12:00:37		Middle	10.0	25.8	34.9 34.9	34.9	6.17 6.14	6.16	0.20	92.3 91.9	92.1	3.59 3.56	3.58	3.40	5.6 6.0	5.8	6.3
		/ Rainy	Bottom	19.0	25.8	35.0	35.0	5.95	5.94	5.94	89.1	88.9	3.49	3.49		6.6	7.2	
						35.0 34.1		5.92 6.66			88.7 98.8		3.49 2.37			7.7 4.8		
		26	Surface	1.0	25.5	34.1	34.1	6.67	6.67	6.63	98.8	98.8	2.31	2.34		6.5	5.7	
27/10/22	13:00:15		Middle	10.1	25.4	34.1 34.1	34.1	6.60 6.58	6.59	-	97.7 97.3	97.5	5.22 5.27	5.25	4.59	5.1 5.3	5.2	4.8
		/ Rainy	Bottom	19.1	25.4	34.2	34.2	6.46	6.46	6.46	95.5	95.5	6.19	6.19		3.1	3.4	
			Quefe - :	10	05.0	34.2 34.0	00.0	6.45 6.71	6.70		95.5 98.9	00.0	6.18 2.71	0.60		3.7 5.1	65	
		26	Surface	1.0	25.3	33.9	33.9	6.68	6.70	6.61	98.7	98.8	2.65	2.68		7.8	6.5	
29/10/22	15:00:28		Middle	10.8	25.5	33.8 33.8	33.8	6.52 6.52	6.52		96.5 96.3	96.4	2.95 2.98	2.97	3.38	7.1 5.3	6.2	6.2
		/ Rainy	Bottom	20.5	25.4	33.9 33.9	33.9	6.47 6.46	6.47	6.47	95.6 95.5	95.6	4.46 4.54	4.50		6.0 5.8	5.9	
L		I	I	I		30.0	I	0.40	I	I	30.0		1.04	1	I	0.0	1	1



Monitoring Station : TM-FM1

Monitorin		Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	rbidity (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
			Surface	1.0	28.4	31.0	30.9	5.82	5.80	average	88.9	88.6	3.10	3.10	average	1.9	1.9	average
01/10/00	15:51:03	29	Middle	0.5	00 E	30.9 31.0	21.0	5.77 5.55	5 50	5.66	88.2 84.8	04.5	3.10 3.37	2.40	2.00	1.9 2.9	2.0	0.5
01/10/22	15:51:03	(Daires	Middle	8.5	28.5	31.1	31.0	5.50	5.53		84.1	84.5	3.42	3.40	3.66	2.7	2.8	2.5
		/ Rainy	Bottom	16.1	28.3	31.3 31.3	31.3	5.35 5.34	5.35	5.35	81.7 81.6	81.7	4.43 4.56	4.50		2.1 3.3	2.7	
		30	Surface	1.0	28.8	30.5 30.5	30.5	5.71 5.71	5.71		87.6 87.5	87.6	0.82	0.83		4.0 5.1	4.6	
03/10/22	10:00:05		Middle	9.3	28.8	30.8	30.8	5.66	5.65	5.68	87.0	86.9	0.96	0.98	1.06	3.5	3.1	3.8
		/ Rainy				30.9 32.0	1	5.64 5.18			86.7 80.1		1.00			2.6 3.1		
			Bottom	17.5	28.8	32.5	32.2	5.14	5.16	5.16	79.6	79.9	1.40	1.38		4.5	3.8	
		30	Surface	1.0	29.0	29.9 29.9	29.9	5.65 5.66	5.66	5.45	86.5 86.7	86.6	0.76 0.75	0.76		4.6 3.9	4.3	
06/10/22	10:14:25		Middle	8.4	28.9	30.8 31.0	30.9	5.25 5.23	5.24	5.45	80.9 80.6	80.8	1.22	1.23	1.77	2.5 3.8	3.2	3.6
		/ Rainy	Bottom	15.7	28.8	31.6	31.7	5.10	5.09	5.09	78.7	78.5	3.35	3.34		4.5	3.4	
						31.7 28.1	1	5.07 5.92		0.00	78.3 89.4		3.32 2.72			2.3 2.3		
		30	Surface	1.0	28.7	28.1	28.1	5.85	5.89	5.64	88.5	89.0	2.66	2.69		3.4	2.9	
08/10/22	11:38:20		Middle	8.6	28.7	28.4 28.4	28.4	5.39 5.38	5.39		81.6 81.4	81.5	3.82 3.98	3.90	4.77	4.0 3.7	3.9	3.0
		/ Rainy	Bottom	16.3	28.7	28.7 28.7	28.7	5.21 5.20	5.21	5.21	79.0 78.9	79.0	7.67 7.79	7.73		2.8 1.7	2.3	1
			Surface	1.0	27.8	28.7	28.7	5.20	5.62		78.9 83.9	83.9	9.59	9.58		4.4	4.4	
		29	Sunace	1.0		28.7 29.0	20.7	5.62 5.58	3.02	5.60	83.9 83.5	03.3	9.57 9.84	3.30		4.3 3.5	4.4	
11/10/22	13:17:10		Middle	9.0	27.9	29.0	29.0	5.56	5.57		83.3	83.4	9.80	9.82	9.19	3.8	3.7	4.2
		/ Rainy	Bottom	17.0	27.9	29.2 29.2	29.2	5.52 5.52	5.52	5.52	82.8 82.8	82.8	8.15 8.16	8.16		4.5 4.7	4.6	
			Surface	1.0	27.2	29.0	29.0	5.89	5.89		87.3	87.3	5.38	5.39		9.1	9.7	
10/10/00	14:10:10	28	Middle	0.0	27.2	29.0 29.1	20.1	5.89 5.80	5.00	5.85	87.3 86.0	86.0	5.40 6.20	6.00	7 1 4	10.2 9.3	0.2	
13/10/22	14:18:10	/ Rainy	Middle	9.2	27.2	29.1	29.1	5.80 5.77	5.80		85.9	86.0	6.24 9.79	6.22	7.14	9.2 6.5	9.3	8.6
		/ nainy	Bottom	17.5	27.2	29.1 29.1	29.1	5.76	5.77	5.77	85.6 85.5	85.6	9.79	9.81		7.4	7.0	
		28	Surface	1.0	27.2	33.6 33.6	33.6	5.90 5.88	5.89		89.7 89.3	89.5	2.83 2.90	2.87		8.4 6.9	7.7	
15/10/22	15:50:24		Middle	8.6	27.2	33.6	33.6	5.69	5.68	5.79	86.5	86.4	3.82	3.86	3.96	10.8	9.9	7.1
		/ Rainy				33.6 33.6	1	5.67 5.59			86.2 84.9		3.90 5.12			8.9 4.3		
		-	Bottom	16.2	27.2	33.6	33.6	5.58	5.59	5.59	84.8	84.9	5.20	5.16		3.4	3.9	
		27	Surface	1.0	26.4	35.2 35.2	35.2	6.58 6.28	6.43	6.23	99.6 95.1	97.4	1.53 1.45	1.49		4.5 3.7	4.1	
19/10/22	9:35:32		Middle	8.6	26.5	35.2 35.2	35.2	6.03 6.01	6.02	0.20	91.4 91.1	91.3	1.91 1.95	1.93	1.82	2.5 2.4	2.5	3.4
		/ Rainy	Bottom	16.2	26.5	35.2	35.2	5.89	5.89	5.89	89.3	89.3	2.05	2.05		3.1	3.7	-
						35.2 29.9		5.88 6.53			89.2 94.4		2.05 3.39			4.3 5.6		
		26	Surface	1.0	25.5	29.9	29.9	6.49	6.51	6.40	94.0	94.2	3.41	3.40		6.0	5.8	
21/10/22	10:18:18		Middle	8.7	25.5	30.0 30.1	30.0	6.30 6.29	6.30		91.2 91.0	91.1	3.78 3.82	3.80	3.93	3.7 4.1	3.9	5.8
		/ Rainy	Bottom	16.3	25.4	30.1 30.1	30.1	6.23 6.23	6.23	6.23	90.1 90.0	90.1	4.55 4.61	4.58		6.4 9.0	7.7	
			Surface	1.0	25.4	34.8	34.8	6.77	6.75		100.5	100.3	2.87	2.90		4.7	3.7	
		27				34.8 34.8		6.73 6.15		6.44	100.1 91.8		2.93 1.29			2.7 2.1		
23/10/22	11:40:35		Middle	8.8	25.8	34.9	34.8	6.12	6.14		91.5	91.7	1.32	1.31	2.05	2.9	2.5	3.2
		/ Rainy	Bottom	16.6	26.0	35.1 35.1	35.1	5.89 5.88	5.89	5.89	88.5 88.3	88.4	1.95 1.96	1.96		3.0 3.7	3.4	
		27	Surface	1.0	25.8	34.9 34.9	34.9	5.93 5.93	5.93		88.7 88.7	88.7	3.07 2.93	3.00		6.6 6.5	6.6	
25/10/22	12:17:11		Middle	9.0	25.8	34.9	34.9	5.90	5.90	5.91	88.3	88.3	3.31	3.34	3.32	6.5	6.6	7.2
		/ Rainy				34.9 34.9	1	5.89 5.83			88.2 87.2		3.36 3.63			6.7 8.0		
			Bottom	17.0	25.8	34.9	34.9	5.82	5.83	5.83	87.1	87.2	3.64	3.64		8.9	8.5	
		26	Surface	1.0	25.5	34.1 34.1	34.1	6.65 6.65	6.65	6.61	98.5 98.5	98.5	2.34 2.46	2.40		4.9 3.3	4.1	
27/10/22	13:16:20		Middle	9.2	25.4	34.1 34.1	34.1	6.58 6.57	6.58	0.01	97.3 97.1	97.2	5.39 5.41	5.40	4.68	3.5 3.9	3.7	4.4
		/ Rainy	Bottom	17.4	25.4	34.1	34.1	6.57 6.52	6.51	6.51	96.4	96.3	6.25	6.24		5.1	5.3	ł
						34.2 33.8		6.50 6.69		5.01	96.2 98.9		6.23 2.52			5.5 4.5		
		27	Surface	1.0	25.5	33.8	33.8	6.67	6.68	6.61	98.6	98.8	2.49	2.51		4.7	4.6	ļ
29/10/22	15:20:23		Middle	8.6	25.5	33.8 33.8	33.8	6.54 6.52	6.53		96.7 96.5	96.6	2.54 2.53	2.54	2.94	3.6 3.6	3.6	5.2
		/ Rainy	Bottom	16.1	25.5	33.8	33.8	6.45	6.45	6.45	95.3	95.3	3.73	3.79		6.3	7.3	l
l	L	l	I			33.8	1	6.45	1		95.3	L	3.85		I	8.3	1	I



Monitoring Station : TM-FM2

womtorn	ig etaile	Ambient						-			Discolvo	d Owigon	1			1		
Date	Time	Temp (°C) /	Monitori	ng Depth	Temp	Salinit	ty (ppt)	Dissolv	ed Oxygen	(mg/L)		d Oxygen tion (%)	Τι	irbidity (NT	U)	Susper	nded Solids	s (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
		Condition	Surface	1.0	28.5	30.9	30.9	5.73	5.70	average	87.6	87.1	3.47	3.46	average	2.7	3.0	average
		29	Sunace	1.0	20.5	30.9	30.9	5.66	5.70	5.57	86.6	07.1	3.44	3.40		3.3	3.0	
01/10/22	16:06:09		Middle	8.7	28.4	31.0	31.0	5.45	5.44		83.3	83.1	3.81	3.82	4.05	1.7	1.9	2.2
		/ Rainy				31.1 31.6		5.43 5.27			82.9 80.6		3.83 4.79			2.0		
		,	Bottom	16.4	28.3	31.6	31.6	5.25	5.26	5.26	80.3	80.5	4.94	4.87		1.8	1.6	
			Surface	1.0	28.8	30.4	30.4	6.09	6.03		93.4	92.5	0.92	0.93		6.1	6.2	
		30	Sunace	1.0	20.0	30.4	30.4	5.97	0.05	5.78	91.5	32.5	0.93	0.35		6.3	0.2	
03/10/22	10:19:13		Middle	9.1	28.7	30.9	31.0	5.54	5.54		85.0	85.0	1.07	1.07	1.12	4.8	4.2	5.1
		/ Rainy				31.1 32.5		5.53 5.10			85.0 79.1		1.06 1.37			3.6 4.6		ł
		, ,	Bottom	17.1	28.7	32.6	32.5	5.09	5.10	5.10	78.8	79.0	1.38	1.38		5.4	5.0	
			Surface	1.0	29.0	29.9	29.9	5.76	5.76		88.2	88.3	0.98	0.97		4.1	3.3	
		30	Sunace	1.0	23.0	29.9	23.5	5.76	5.70	5.56	88.3	00.5	0.96	0.37		2.4	5.5	-
06/10/22	10:41:00		Middle	8.2	28.9	30.3	30.4	5.39	5.36		82.7	82.3	1.07	1.11	1.74	4.1	5.3	4.2
		/ Rainy				30.5 31.5		5.33 5.17			81.9 79.8		1.14 3.11			6.4 5.3		{
		,	Bottom	15.5	28.9	31.6	31.5	5.13	5.15	5.15	79.2	79.5	3.16	3.14		3.0	4.2	
			Surface	1.0	28.7	28.5	28.5	5.68	5.66		86.1	85.7	2.69	2.70		1.3	1.6	
		30	Sunace	1.0	20.7	28.5	20.5	5.63	5.00	5.45	85.2	05.7	2.70	2.70		1.9	1.0	-
08/10/22	11:19:44		Middle	9.4	28.7	28.6	28.6	5.25	5.25		79.5	79.4	3.95	3.99	4.76	2.8	3.2	2.3
		/ Rainy				28.6 28.7		5.24 5.15			79.3 78.0		4.03 7.52			3.5 2.0		ł
		/ namy	Bottom	17.9	28.7	28.7	28.7	5.14	5.15	5.15	77.9	78.0	7.64	7.58		2.0	2.0	
			Quarterse	4.0	07.0	28.6	00.0	5.63	5.00		84.1	04.4	9.09	0.14		3.7		
		29	Surface	1.0	27.8	28.6	28.6	5.63	5.63	5.61	84.1	84.1	9.18	9.14		4.4	4.1	
11/10/22	13:35:30		Middle	8.1	27.9	28.8	28.9	5.60	5.59	0.01	83.8	83.7	9.20	9.16	8.81	3.2	2.9	3.9
		/ Daimu				28.9		5.58			83.6		9.11			2.5		ł
		/ Rainy	Bottom	15.2	27.9	29.1 29.2	29.2	5.53 5.52	5.53	5.53	82.9 82.9	82.9	8.11 8.19	8.15		4.2 5.2	4.7	
						29.0		5.87			87.0		5.73			4.2		
		28	Surface	1.0	27.2	29.0	29.0	5.87	5.87	5.86	87.0	87.0	5.67	5.70		6.8	5.5	
13/10/22	14:36:13		Middle	8.2	27.2	29.0	29.0	5.86	5.86	5.00	86.9	86.8	6.37	6.42	6.76	8.5	9.6	8.0
						29.0		5.85			86.7		6.47	••••		10.7		
		/ Rainy	Bottom	15.3	27.2	29.1 29.1	29.1	5.79 5.77	5.78	5.78	85.8 85.6	85.7	8.16 8.13	8.15		11.0 6.6	8.8	
						33.6		5.92			89.9		3.18			4.6		
		28	Surface	1.0	27.2	33.6	33.6	5.87	5.90		89.3	89.6	3.13	3.16		3.3	4.0	
15/10/22	16:05:23		Middle	9.0	27.2	33.6	33.6	5.65	5.65	5.77	85.9	85.8	3.30	3.34	3.51	5.5	4.8	4.7
13/10/22	10.03.25		wildule	3.0	27.2	33.6	55.0	5.64	5.05		85.7	00.0	3.38	3.34	3.51	4.1	4.0	4.7
		/ Rainy	Bottom	17.0	27.2	33.6	33.6	5.59	5.59	5.59	84.9	84.9	3.96	4.03		4.9	5.5	
-			-			33.6 35.2		5.58 5.88			84.8 89.1		4.09			6.0 2.5		
		28	Surface	1.0	26.5	35.2	35.2	5.88	5.88		89.1	89.1	1.59	1.60		3.8	3.2	
19/10/22	9:54:27		Middle	8.6	26.5	35.2	35.2	5.83	5.83	5.86	88.5	88.5	2.11	2.10	1.95	3.4	3.2	3.4
10/10/22	0.04.27		winddie	0.0	20.0	35.2	00.2	5.83	0.00		88.4	00.0	2.09	2.10	1.00	2.9	0.2	0.4
		/ Rainy	Bottom	16.2	26.5	35.2	35.2	5.81	5.81	5.81	88.1	88.1	2.16	2.14		2.8	3.8	
						35.2 30.1		5.81 6.54			88.0 94.6		2.12 3.64			4.7 4.8		
		26	Surface	1.0	25.4	30.0	30.1	6.50	6.52		94.1	94.4	3.59	3.62		5.7	5.3	
21/10/22	10:24:07		Middle	8.6	25.4	30.1	30.1	6.29	6.29	6.40	91.1	91.0	3.88	3.90	4.21	3.7	5.0	5.4
21/10/22	10.24.07		wildule	0.0	23.4	30.1	30.1	6.28	0.29		90.8	91.0	3.91	3.90	4.21	6.2	5.0	5.4
		/ Rainy	Bottom	16.2	25.4	30.1	30.1	6.21	6.21	6.21	89.8	89.8	5.13	5.13		6.8	5.9	
						30.1 34.6		6.20 6.62			89.7 98.7		5.13 1.85			4.9 4.7		
		27	Surface	1.0	25.7	34.6	34.6	6.60	6.61		98.4	98.6	1.89	1.87		2.4	3.6	
23/10/22	11.01.07		Middle	9.2	25.9	35.0	35.0	6.03	6.02	6.32	90.4	00.0	1.32	1.05	1.65	4.4	4.4	3.6
23/10/22	11:21:37		Middle	9.2	25.9	35.0	35.0	6.02	6.03		90.1	90.3	1.38	1.35	0.1	4.3	4.4	3.0
		/ Rainy	Bottom	17.5	25.9	35.1	35.1	5.90	5.89	5.89	88.5	88.4	1.71	1.74		2.5	3.0	
						35.1 34.9		5.88 5.92			88.3 88.6		1.77 3.09			3.5 6.0		
		27	Surface	1.0	25.8	34.9	34.9	5.92	5.92		88.6	88.6	3.09	3.06		6.7	6.4	
05/10/00	10:04:00		Mintell-	0.4	05.0	34.9	04.0	5.91	E O1	5.92	88.5	00 5	3.15	0.40	0.40	6.3		65
25/10/22	12:34:23		Middle	8.1	25.8	34.9	34.9	5.91	5.91		88.4	88.5	3.16	3.16	3.16	6.6	6.5	6.5
		/ Rainy	Bottom	15.1	25.8	34.9	34.9	5.88	5.88	5.88	87.9	87.9	3.18	3.28		7.9	6.6	
						34.9		5.87			87.8		3.38			5.3		
		26	Surface	1.0	25.5	34.1 34.1	34.1	6.66 6.66	6.66		98.7 98.7	98.7	2.43 2.41	2.42		5.2 5.9	5.6	
07/10/22	10.00.00				or :	34.1	64 ·	6.61		6.63	97.8	c7 -	5.44	F 45	4.0-	3.8		
27/10/22	13:33:09	-	Middle	8.1	25.4	34.1	34.1	6.60	6.61		97.5	97.7	5.39	5.42	4.69	3.7	3.8	5.1
		/ Rainy	Bottom	15.2	25.4	34.1	34.1	6.53	6.52	6.52	96.6	96.5	6.22	6.22]	6.5	5.9	
						34.2		6.51			96.3		6.22			5.3	2.0	
		27	Surface	1.0	25.5	33.9 33.9	33.9	6.49 6.49	6.49		96.0 96.0	96.0	2.26	2.27		4.0 6.1	5.1	
		21	<u> </u>			33.9		6.49 6.45		6.47	96.0 95.4		2.27			6.1 5.9		1
29/10/22	15:35:24		Middle	8.2	25.5	33.8	33.8	6.44	6.45		95.3	95.4	3.00	3.00	3.13	5.3	5.6	5.7
		/ Rainy	Bottom	15.5	25.5	33.8	33.8	6.42	6.42	6.42	94.8	94.8	4.12	4.14	1	7.9	6.5	
			Dottom	10.0	20.0	33.8	55.6	6.41	5.42	5.42	94.8	34.0	4.15	-1.14		5.1	0.5	



Monitoring Station : TM-FC2

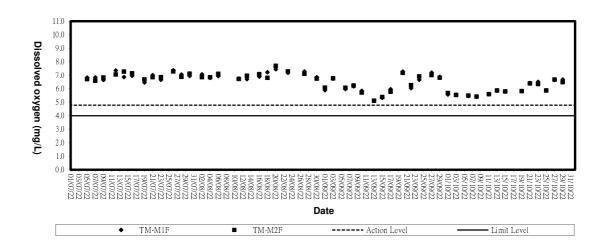
Monitorii		Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salinit	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	ırbidity (NT	Ū)	Suspe	nded Solids	s (mg/L)
Date	Time	Weather Condition		m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		29	Surface	1.0	28.5	30.9 30.9	30.9	5.61 5.59	5.60		85.8 85.5	85.7	3.43 3.35	3.39		1.2 1.0	1.1	
01/10/22	16:23:59		Middle	8.5	28.4	31.1 31.1	31.1	5.42 5.37	5.40	5.50	82.9 82.1	82.5	3.74 3.81	3.78	3.86	1.1 1.5	1.3	1.9
		/ Rainy	Bottom	16.1	28.3	31.1 31.3 31.4	31.4	5.37 5.31 5.29	5.30	5.30	81.1 80.9	81.0	4.39	4.41		3.9 2.8	3.4	
			Surface	1.0	28.8	30.5	30.5	5.71	5.71		87.4	87.5	0.91	0.90		5.3	5.8	
03/10/22	10:44:49	30	Middle	11.0	28.7	30.5 32.5	32.4	5.71 5.04	5.05	5.38	87.5 78.1	78.2	0.89 1.17	1.16	1.15	6.2 3.4	2.3	4.4
		/ Rainy	Bottom	21.0	28.8	32.3 32.5	32.6	5.06 5.08	5.06	5.06	78.3 78.7	78.5	1.15 1.41	1.40		1.1 5.0	5.3	
			Surface	1.0	29.0	32.7 29.9	29.9	5.04 5.75	5.75	0.00	78.2 88.1	88.2	1.38 0.90	0.91		5.5 3.5	4.0	
06/10/22	11:04:59	30	Middle	8.4	28.9	29.9 30.5	30.6	5.75 5.32	5.30	5.52	88.2 81.7	81.4	0.91 1.38	1.39	1.97	4.4 3.5	3.2	3.5
00/10/22	11101100	/ Rainy	Bottom	15.8	28.9	30.8 31.6	31.7	5.27 5.13	5.11	5.11	81.1 79.3	79.0	1.40 3.59	3.60		2.9 3.0	3.4	0.0
			Surface	1.0	28.6	31.7 28.7	28.7	5.09 5.59	5.58	5.11	78.7 84.6	84.4	3.61 2.52	2.50		3.8 1.9	1.7	
00/40/00		30				28.6 28.6		5.56 5.34		5.45	84.2 81.0		2.47 3.54			1.4 1.7		
08/10/22	11:01:07	/ Rainy	Middle	9.1	28.7	28.6 28.8	28.6	5.32 5.17	5.33		80.6 78.4	80.8	3.61 6.89	3.58	4.33	3.3 1.5	2.5	1.8
			Bottom	17.1	28.7	28.8 28.6	28.8	5.16 5.61	5.17	5.17	78.3 83.8	78.4	6.97 9.64	6.93		1.1 5.7	1.3	
		29	Surface	1.0	27.8	28.6 29.0	28.6	5.61 5.57	5.61	5.59	83.9 83.4	83.9	9.67 9.72	9.66	-	5.1 2.7	5.4	
11/10/22	13:51:09	(Dainu	Middle	8.1	27.9	29.0	29.0	5.55 5.52	5.56		83.2	83.3	9.54	9.63	9.14	2.5	2.6	4.2
		/ Rainy	Bottom	15.1	27.9	29.2 29.2	29.2	5.51	5.52	5.52	82.8 82.7	82.8	8.11 8.18	8.15		3.4 5.5	4.5	
		28	Surface	1.0	27.2	29.0 29.0	29.0	5.86 5.86	5.86	5.85	86.8 86.8	86.8	5.36 5.35	5.36	-	8.0 8.5	8.3	
13/10/22	14:49:14		Middle	8.3	27.2	29.0 29.0	29.0	5.84 5.83	5.84		86.5 86.4	86.5	7.19 6.55	6.87	6.88	8.0 8.1	8.1	7.7
		/ Rainy	Bottom	15.6	27.2	29.1 29.1	29.1	5.80 5.80	5.80	5.80	86.0 85.9	86.0	8.38 8.43	8.41		7.8 5.9	6.9	
		28	Surface	1.0	26.7	33.9 33.8	33.9	5.96 5.91	5.94	5.79	90.0 89.3	89.7	3.26 3.27	3.27		5.3 3.3	4.3	
15/10/22	16:23:23		Middle	7.9	27.2	33.6 33.6	33.6	5.65 5.64	5.65	0.70	85.9 85.7	85.8	3.78 3.69	3.74	3.81	3.6 4.1	3.9	3.9
		/ Rainy	Bottom	14.8	27.2	33.6 33.6	33.6	5.58 5.58	5.58	5.58	84.8 84.7	84.8	4.36 4.47	4.42		3.2 3.9	3.6	
		28	Surface	1.0	26.5	35.2 35.2	35.2	5.82 5.82	5.82	5.00	88.3 88.3	88.3	1.75 1.76	1.76		3.6 4.4	4.0	
19/10/22	10:17:26		Middle	8.7	26.5	35.2 35.2	35.2	5.81 5.81	5.81	5.82	88.1 88.1	88.1	2.04 2.05	2.05	2.05	4.9 3.2	4.1	3.7
		/ Rainy	Bottom	16.4	26.5	35.2 35.2	35.2	5.80 5.79	5.80	5.80	87.9 87.8	87.9	2.30 2.37	2.34		3.9 2.4	3.2	
		26	Surface	1.0	25.0	30.3 30.2	30.3	6.70 6.62	6.66		96.3 95.4	95.9	3.57 3.58	3.58		4.2 3.4	3.8	
21/10/22	10:41:06		Middle	8.2	25.4	30.0 30.1	30.0	6.31 6.28	6.30	6.48	91.3 90.9	91.1	3.93 4.06	4.00	4.19	7.3 6.8	7.1	4.5
		/ Rainy	Bottom	15.4	25.4	30.1 30.1	30.1	6.22 6.21	6.22	6.22	89.9 89.8	89.9	4.93	4.99		3.1	2.6	
		27	Surface	1.0	25.7	34.7 34.7	34.7	7.05	6.92		105.2 101.3	103.3	3.29 3.27	3.28		4.2	3.6	
23/10/22	11:00:35		Middle	8.8	25.8	34.9 34.9	34.9	6.36 6.31	6.34	6.63	95.1 94.3	94.7	1.19 1.24	1.22	2.07	5.1 3.8	4.5	3.8
		/ Rainy	Bottom	16.7	26.0	35.1	35.1	6.08	6.07	6.07	91.3	91.2	1.71	1.72		3.8 3.7 3.1	3.4	
		27	Surface	1.0	25.8	35.1 34.9	34.9	6.06 5.93	5.93		91.0 88.8	88.8	1.73 2.12	2.16		7.6	6.2	
25/10/22	12:51:13	21	Middle	8.1	25.8	34.9 34.9	34.9	5.93 5.91	5.91	5.92	88.8 88.4	88.4	2.20	2.10	2.41	4.8 8.9	7.8	6.9
		/ Rainy	Bottom	15.2	25.8	34.9 34.9	34.9	5.90 5.88	5.88	5.88	88.3 88.0	88.0	2.08 2.92	2.97		6.7 8.4	6.6	
			Surface	1.0	26.2	34.9 34.1	34.1	5.88 6.79	6.79		87.9 101.8	101.8	3.02 2.12	2.16		4.8 6.1	6.0	
27/10/22	13:47:07	27	Middle	8.2	26.0	34.1 34.1	34.1	6.79 6.77	6.77	6.78	101.8 101.3	101.3	2.19 5.52	5.52	4.52	5.8 6.3	5.6	5.9
		/ Rainy	Bottom	15.3	25.6	34.1 34.1	34.1	6.77 6.68	6.66	6.66	101.2 99.2	98.8	5.51 5.86	5.89	1.02	4.9 6.0	6.2	0.0
						34.1 33.8		6.64 6.48		0.00	98.4 95.9		5.91 2.25			6.3 4.8		
00/10/22	45 50	27	Surface	1.0	25.5	33.8 33.8	33.8	6.48 6.46	6.48	6.47	95.9 95.6	95.9	2.22 3.15	2.24		4.6 5.3	4.7	
29/10/22	15:52:36	/ Rainy	Middle	8.0	25.5	33.8 33.8	33.8	6.46 6.43	6.46		95.5 95.0	95.6	3.09 4.40	3.12	3.26	5.4 7.4	5.4	5.8
			Bottom	15.0	25.5	33.8	33.8	6.42	6.43	6.43	94.9	95.0	4.46	4.43		7.0	7.2	



Appendix C3

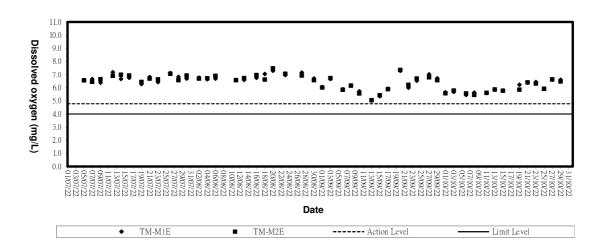
Graphical Plots of Impact Marine Water Quality Monitoring Data



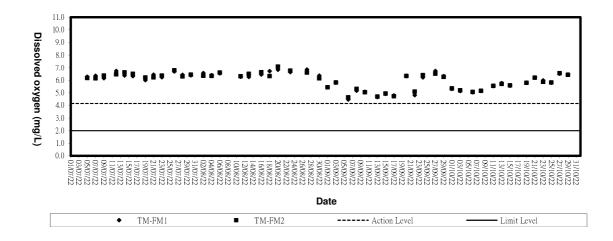


Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide

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

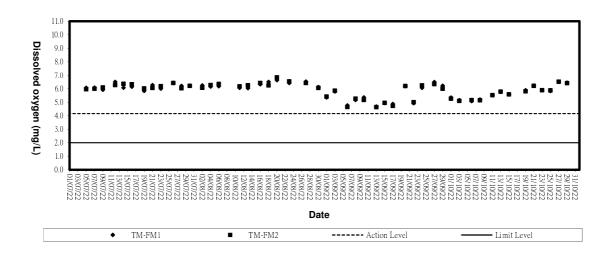






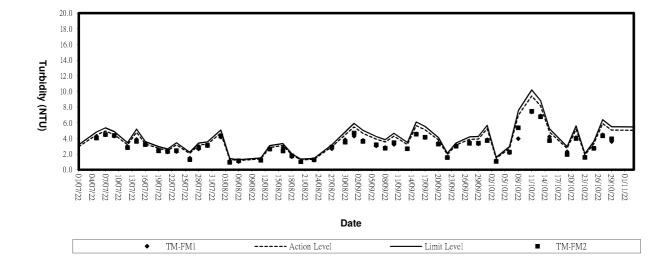
Dissolved Oxygen (Bottom) at Mid-Flood Tide

Dissolved Oxygen (Bottom) at Mid-Ebb Tide

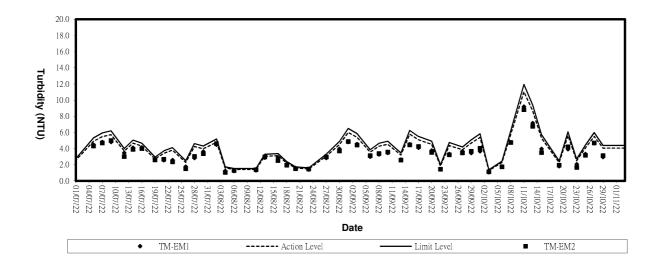




Turbidity (Depth-average) at Mid-Flood Tide



Turbidity (Depth-average) at Mid-Ebb Tide

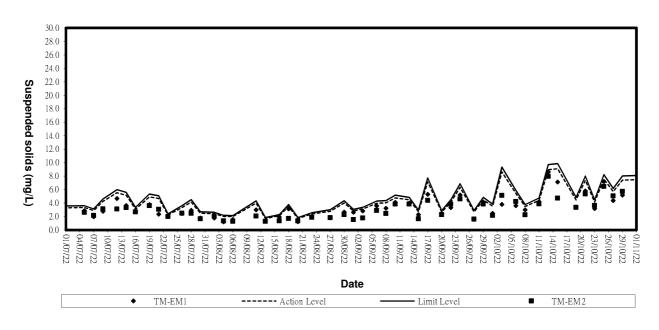




30.0 28.0 26.0 24.0 Suspended solids (mg/L) 22.0 20.0 18.0 16.0 14.0 12.0 10.0 8.0 6.0 4.0 • 1 2.0 0.0 06/08/22 09/08/22 21/08/22 27/08/22 30/08/22 20/10/22 26/10/22 04/07/22 28/07/22 12/08/22 24/08/22 02/09/22 05/10/22 08/10/22 23/10/22 29/10/22 01/11/22 07/07/22 25/07/22 03/08/22 15/08/22 18/08/22 05/09/22 02/10/22 11/10/22 14/10/22 17/10/22 19/07/22 22/07/22 31/07/22 20/09/22 26/09/22 29/09/22 01/07/22 10/07/22 13/07/22 16/07/22 08/09/22 14/09/22 17/09/22 23/09/22 1/09/22 Date TM-FM1 TM-FM2 ----- Action Level – Limit Level ٠ -

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



Certificate No.	110280		Page	1 of 2	Pages
Customer :	ETS-Testconsult Limited				
Address :	8/F., Block B, Veristrong Indus	trial Centre, 34-36 Au	Pui Wan St., Fo	tan, Hong Ko	ng.
Order No. :	Q14041		Date of receipt	:	19-Oct-21
Item Tested					
Description :	Sound Level Calibrator				
Manufacturer :	Rion		I.D.	: ET/EN/0	02/01
Model :	NC-73		Serial No.	: 101969	43
Test Conditi	ons				
Date of Test :	3-Nov-21		Supply Voltage	:	
Ambient Temp	erature: (23 ± 3)°C		Relative Humid	lity: (50 ± 25	i) %
Test Specifie	cations				
Calibration chec	:k.				
	Procedure : F21, Z02.				
 Test Results					
		.			
	within the manufacturer's speci	fication.			
The results are	shown in the attached page(s).				
Main Test equip	ment used:				
Equipment No.	Description	<u>Cert. No.</u>		Traceable to	
S014	Spectrum Analyzer	106615			SCL-HKSAR
S240	Sound Level Calibrator	106446			SCL-HKSAR
S041	Universal Counter	101743		SCL-HKSAF	
S206	Sound Level Meter	106447		SCL-HKSAF	R
will not include allow overloading, mis-ha	this Calibration Certificate only relate t vance for the equipment long term drift ndling, or the capability of any other lal age resulting from the use of the equip	, variations with environme boratory to repeat the mea	ental changes, vibratio		ing transportation,
The test equipment The test results app	used for calibration are traceable to Ini oly to the above Unit-Under-Test only	ternational System of Units	s (SI), or by reference	e to a natural cor	nstant.
	M				
Calibrated by	. V	App	roved by :	MA	
Campiated by	Elva Chong	Fr F		Kin Wong	
This Certificate is issued b		Date	3-Nov-21		

Hong Kong Calibration Ltd. Unit 88, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong, Tel: 2425 8601 Fax: 2425 8646



Certificate No. 110280

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.
94.0 dB	93.9 dB	± 1 dB

Uncertainty : $\pm 0.2 \text{ dB}$

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.982 kHz	±2%

Uncertainty : ± 0.1 %

- 3. Level Stability : 0.0 dB Uncertainty : ± 0.01 dB
- Total Harmonic Distortion : < 0.3 % Mfr's Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remarks: 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 009 hPa

----- END -----



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

Calibration Certificate

Certificate No.	: CSA20120	
Page	· 1 of	

3

Information Provided by Customer

: ETS - TESTCONSULT LIMITED Customer

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

Information of Unit-under-test (UUT)

	Sound Level Meter	Microphone	Pre-amplifier
Manufacturer	RION	RION	RION
Туре	NL-31	UC-53A	NH-21
Equipment I.D. no.	ET/EN/003/12		
Serial No.	00773032	01291	25043
Adaptors used	1310		
Resolution	0.1 dB		

Laboratory Information

Lab. Ref. No.	: Q/CAL/22/0142/I	Procedure	: CQS/001/A
Date of Calibration	: 6-Jan-2022	Date of Receipt	: 5-Jan-2022
Date of Issue	: 11-Jan-2022	Calibration Location	: Calibration Laboratory

Calibration Condition

Ambient Temperature	: (20±3) °C	Relative Humidity	: (50±20) %
Stabilizing Time	: 30 minutes		

Reference equipment

- Multi-function sound calibrator, ET/2801/01

- Signal generator, ET/2503/01

Calibration specification

- To perform the calibration of linearity and frequecny 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 :

Tommy TAM (Technician) Approved By:

CHAN Chi Wai

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Calibration Certificate

Certificate No. : CSA20120

Page: 2 of 3

Result

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

Ra	nge / Mode		Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor
	Self-cal	184-185	94.0		94.0	0.0	0.13	2.0
1. CHIN	Range	40 to 130	104.0	1	104.0	0.0	0.13	2.0
A Moighting	Mode	Fast	114.0		114.0	0.0	0.13	2.0
A-Weighting	Self-cal		94.0	1	94.0	0.0	0.13	2.0
F	Range	40 to 130	104.0		104.0	0.0	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	40 to 130	104.0	1	104.0	0.0	0.13	2.0
C Maighting	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	40 to 130	104.0	1 1	104.0	0.0	0.13	2.0
	Mode	Slow	114.0		113.9	-0.1	0.13	2.0

2 Measurement for other range on reference sound pressure level: (Unit in: dB)

Range / Mode		Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor	
A-Weighting	Range	20 to 100	04.0		94.1	0.1	0.13	2.0
A-weighting	Mode	Fast	94.0	- 1	94.1	0.1	0.13	2.0
C Moighting	Range	20 to 100	010			0.0	0.42	
C-Weighting Mode		Fast	94.0		94.0	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



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Calibration Certificate

Certificate No.	1	CSA20120

Page : 3 of 3

Result

Acoustic Sensitivity and Frequency Response:

3 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
19.00	10/11 / 14 M	A CARLES	31.5	54.6	54.7	0.1	-39.4 +/- 2.0
			63	67.8	67.9	0.1	-26.2 +/- 1.5
			125	77.9	78.0	0.1	-16.1 +/- 1.5
Manage 1			250	85.4	85.5	0.1	-8.6 +/- 1.4
Starting.			500	90.8	90.9	0.1	-3.2 +/- 1.4
40 to 130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1
			2000	95.1	95.0	-0.1	+1.2 +/- 1.6
			4000	94.9	94.1	-0.8	+1.0 +/- 1.6
			8000	92.9	90.4	-2.5	-1.1 (+2.1 ; - 3.1)
			12500	89.7	84.4	-5.3	-4.3 (+3.0 ; -6.0)
1.		Section 1	16000	87.5	78.5	-9.0	-6.6 (+3.5 ; -17.0)

4 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
		NALVARGE ST	31.5	91.0	90.9	-0.1	-3.0 +/- 2.0
			63	93.2	93.3	0.1	-0.8 +/- 1.5
1999		South and	125	93.8	94.0	0.2	-0.2 +/- 1.5
			250	94.0	94.1	0.1	0.0 +/- 1.4
	30 Fast 94		500	94.0	94.1	0.1	0.0 +/- 1.4
40 to 130		94	1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1
			2000	93.7	93.6	-0.1	-0.2 +/- 1.6
			4000	93.1	92.3	-0.8	-0.8 +/- 1.6
			8000	91.0	88.5	-2.5	-3.0 (+2.1 ; -3.1)
			12500	87.8	82.5	-5.3	-6.2 (+3.0 ; -6.0)
			16000	85.6	76.7	-8.9	-8.5 (+3.5 ; -17.0)

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

- Expended uncertainty of measurement:

	Range (Hz)	(dB)	Range (Hz)	(dB)
du Eter	31.5	0.20	2000	0.13
	63	0.13	4000	0.15
	125	0.15	8000	0.14
94 dB	250	0.12	12500	0.14
	500	0.12	16000	0.14
	1000	0.13		

End of certificate



Certificate No	. 110698		Page	e 1 of 3 Pages
Customer :	ETS-Testconsult Limited			
Address :	8/F., Block B, Veristrong Indu	strial Centre, 34-36	Au Pui Wan St., F	otan, Hong Kong.
Order No. :	Q14237		Date of recei	pt : 1-Nov-21
Item Tested	l			
Description	: Sound Level Meter			
Manufacturer	: Rion		I.D.	: ET/EN/003/16
Model	: NL-52		Serial No.	: 00253765
Test Condi	tions			
Date of Test :	15-Nov-21		Supply Volta	ge :
Ambient Tem	peratur e : (23 ± 3)°C		Relative Hum	nidity:(50 ± 25) %
Test Specif	ications			
Calibration che	eck.			
	t/Procedure: Z01, IEC 61672.			
	,,			
Test Result	ts			
All regulte were	e within the IEC 61672 type 1 o	r manufacturer's sp	ecification.	
	e shown in the attached page(s)			
	5 0.10 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	15		
Main Test equ	ipment used:			
Equipment No	<u>Description</u>	<u>Cert. No.</u>		Traceable to
S017	Multi-Function Generator	C211339		SCL-HKSAR
S240	Sound Level Calibrator	106446		NIM-PRC & SCL-HKSAR
The values given	in this Calibration Certificate only relate	to the values measured	I at the time of the test	t and any uncertainties quoted
will not include all overloading, mis-f	owance for the equipment long term dr handling, or the capability of any other	ift, variations with enviro aboratory to repeat the r	nmental changes, vior neasurement. Hong I	ation and shock during transportation, (ong Calibration Ltd. shall not be liable
for any loss or dar	mage resulting from the use of the equ	ipment.		
The test equipme	nt used for calibration are traceable to	International System of	Units (SI), or by refere	nce to a natural constant.
The test results a	pply to the above Unit-Under-Test only			p
h	- 1			N
6. Ph			pproved by :	(AL)
Calibrated by	Elva Chong	<i>,</i>	hhioved na ""	Kin Wong
This Certificate is issue	ů.	C	ate: 15-Nov-21	
Hong Kong Calibration	Ltd.	_	500 E E	
Unit 68, 24/F _{ix} Well Fur Tel: 2425 6601 Fax: 24	ng Industrial Centre, No _t 58-76, Ta Chuen Ping Stre 425 6646	arvwarounuô' w r'uouô kouô.		



Certificate No. 110698

Page 2 of 3 Pages

Results :

Acoustical signal test

1. Self-generated noise: 15.2 dBA (Mfr's Spec \leq 17 dBA)

2. Reference Sound Pressure Level

	UUT S				
Range (dB)	Frequency Weighting	Time Weighting	Octave Filter	Applied Value (dB)	UUT Reading (dB)
20~130	A	F	OFF	94.0	93.8
		S	OFF		93.8
	С	F	OFF	7	93.8
	Z	F	OFF		93.8
	A	F	OFF	114.0	113.8
		S	OFF		113.8
	С	F	OFF		113.8
	7.	F	OFF		113.8

IEC 61672 Type 1 Spec. : \pm 1.1 dB Uncertainty : \pm 0.1 dB

Electrical signal tests

3. Electrical signal tests of frequency weightings (A weighting)

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.6	- 39.4 dB, ± 2 dB
63 Hz	-26.3	- 26.2 dB, ± 1.5 dB
125 Hz	-16.2	- 16.1 dB, ± 1.5 dB
250 Hz	-8.7	- 8.6 dB, ±1 dB
500 Hz	-3.3	- $3.2 \text{ dB}, \pm 1.4 \text{ dB}$
1 kHz	0.0 (Ref)	0 dB, ± 1.1 dB
2 kHz	+1.2	$+ 1.2 \text{ dB}, \pm 1.6 \text{ dB}$
4 kHz	+0.9	$+$ 1.0 dB, \pm 1.6 dB
8 kHz	-1.1	- 1.1 dB, + 2.1 dB ~ -3.1 dB
16 kHz	-8.1	- 6.6 dB, + 3.5 dB ~ - 17.0 dB

Uncertainty : ± 0.1 dB



Certificate No. 110698

Page 3 of 3 Pages

4. Frequency & Time weightings at 1 kHz

4.1 Frequency Weighting (Fast)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
A	94.0	94.0 (Ref.)		± 0.4 dB
С	94.0	94.0	0.0	
Z	94.0	94.0	0.0	

4.2 Time Weighting (A-weighted)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
Fast	94.0	94.0 (Ref.)		± 0.3 dB
Slow	94.0	94.0	0.0	
Time-averaging	94.0	94.0	0.0	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks: 1. UUT: Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 009 hPa.
- 4. Microphone model: UC-59, S/N : 07824.
- 5. Preamplifier model : NH-25, S/N: 43795.
- 6. Firmware Version: 1.5
- 7. Power Supply Check: OK
- 8. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----



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

Calibration Certificate

	Certificate No.	: CSA23783			
	Page	:	1	of	3
mation Provided by Customer					

Inform

Customer : ETS - TESTCONSULT LIMITED

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

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		C. South and a state of
Serial No.	00264519	03558	64644
Adaptors used	Constant - Constant		The second second
Resolution	0.1 dB	Contracting and a second	Contractor - The

Laboratory Information

Lab. Ref. No.	:	Q/CAL/22/4437/I	Procedure	: CQS/001/A
Date of Calibration	:	22-Jun-2022	Date of Receipt	: 8-Jun-2022
Date of Issue	;	23-Jun-2022	Calibration Location	: Calibration Laboratory

Calibration Condition

Ambient Temperature : (20±3) °C **Relative Humidity** : (50±20) % **Stabilizing Time** : 30 minutes

Reference equipment

- Multi-function sound calibrator, ET/2801/01

- Signal generator, ET/2503/01

Calibration specification

- To perform the calibration of linearity and frequecny 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 uncertaintles 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 :

Tommy TAM (Technician) Approved By:

CHAN Chi Wai

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Calibration Certificate

Certificate No. : CSA23783

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		94.0	- Stor Ind	94.0	0.0	0.13	2.0
	Range	30-130	104.0	1	104.1	0.1	0.13	2.0
A Mainhting	Mode	Fast	114.0		114.1	0.1	0.13	2.0
A-Weighting	Self-cal		94.0		94.0	0.0	0.13	2.0
	Range	30-130	104.0	1	104.1	0.1	0.13	2.0
1.1.1	Mode	Slow	114.0		114.1	0.1	0.13	2.0
	Self-cal	-	94.0	1	94.0	0.0	0.13	2.0
	Range	30-130	104.0		104.1	0.1	0.13	2.0
C Mainhting	Mode	Fast	114.0		114.0	0.0	0.13	2.0
C-Weighting	Self-cal		94.0	Star Star Bar	94.0	0.0	0.13	2.0
States and	Range	30-130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Slow	114.0	(2) (1) (1) (1)	114.0	0.0	0.13	2.0
	Self-cal		94.0	RALINS	94.0	0.0	0.13	2.0
	Range	30-130	104.0	1	104.1	0.1	0.13	2.0
7 Weighting	Mode	Fast	114.0		114.0	0.0	0.13	2.0
Z-Weighting	Self-cal	1. Sec. 1.	94.0		94.0	0.0	0.13	2.0
-	Range	30-130	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



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Calibration Certificate

Certificate No. : CSA23783

Page : 3 of 3

Calibration Result:

Acoustic Sensitivity and Frequency Response:

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

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
		QUAR THE	31.5	54.6	45.6	-9.0	0.15	2.0
		60000	63	67.8	62.3	-5.5	0.13	2.0
		BHR SAL	125	77.9	76.5	-1.4	0.13	2.0
			250	85.4	86.4	1.0	0.12	2.0
	長生生活と	E The Less	500	90.8	92.1	1.3	0.12	2.0
30-130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0.13	2.0
	1		2000	95.1	93.4	-1.7	0.13	2.0
		and and	4000	94.9	91.3	-3.6	0.13	2.0
	S. Calific		8000	92.9	84.6	-8.3	0.14	2.0
	402 T		12500	89.7	78.0	-11.7	0.14	2.0
	1.000	2000	16000	87.5	72.4	-15.1	0.14	2.0

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

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor			
Trans/2-5			31.5	91.0	80.2	-10.8	0.22	2.3			
			63	93.2	87.6	-5.6	0.13	2.0			
	1 miles		125	93.8	92.4	-1.4	0.13	2.0			
		250	94.0	95.0	1.0	0.12	2.0				
		94	94	geenheet r	free lines 1	500	94.0	95.3	1.3	0.12	2.0
30-130	Fast			1000 (Ref.)	94.0	94.0	0.0	0.13	2.0		
Di anconte			2000	93.7	92.0	-1.7	0.13	2.0			
			4000	93.1	89.6	-3.5	0.13	2.0			
			8000	91.0	82.7	-8.3	0.14	2.0			
			12500	87.8	76.2	-11.6	0.14	2.0			
			16000	85.6	70.6	-15.0	0.14	2.0			

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

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
W			31.5	94.0	83.2	-10.8	0.14	2.0
5.28%			63	94.0	88.5	-5.5	0.29	2.6
			125	94.0	92.6	-1.4	0.15	2.0
			250	94.0	95.0	1.0	0.12	2.0
1.11.20			500	94.0	95.3	1.3	0.12	2.0
30-130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0.13	2.0
			2000	94.0	92.2	-1.8	0.13	2.0
			4000	94.0	90.3	-3.7	0.13	2.0
0.1164			8000	94.0	85.6	-8.4	0.14	2.0
4.5			12500	94.0	82.7	-11.3	0.14	2.0
342			16000	94.0	80.2	-13.8	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



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)	L _{eq(30min)}	L_{10}	L ₉₀	Speed (m/s)	Sources	Condition
06/10/2022	10:25	59.2	60.4	56.8	0.3	Vehicle passing by	Fine
08/10/2022	9:30	60.1	61.1	59.9	0.2	General site work	Fine
11/10/2022	10:30	59.5	61.1	56.3	0.2	General site work	Fine
13/10/2022	13:00	58.8	60.6	54.8	0.2	General site work	Fine
18/10/2022	13:00	59.5	61.7	56.8	0.2	General site work	Fine
20/10/2022	9:25	58.8	59.7	54.3	0.2	Vehicle passing by	Fine
25/10/2022	13:00	59.4	62.1	56.3	0.2	General site work	Fine
29/10/2022	13:00	59.5	61.0	56.3	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 *

Date	Start Sampling		se Level dB	(A)	Wind Speed	Major Noise Sources	Weather Condition
	Time (hh:mm)	L _{eq(30min)}	L ₁₀	L ₉₀	(m/s)		
06/10/2022	10:30	57.9	59.1	54.8	0.3	Vehicle passing by	Fine
08/10/2022	10:05	58.7	60.4	54.8	0.2	General site work	Fine
11/10/2022	11:05	58.4	60.6	55.8	0.2	General site work	Fine
13/10/2022	13:35	59.8	61.4	56.3	0.2	General site work	Fine
18/10/2022	13:35	58.6	60.3	52.8	0.2	General site work	Fine
20/10/2022	9:30	57.9	59.2	54.6	0.2	Vehicle passing by	Fine
25/10/2022	13:35	58.4	61.6	57.8	0.2	General site work	Fine
29/10/2022	13:35	58.2	60.6	55.8	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.

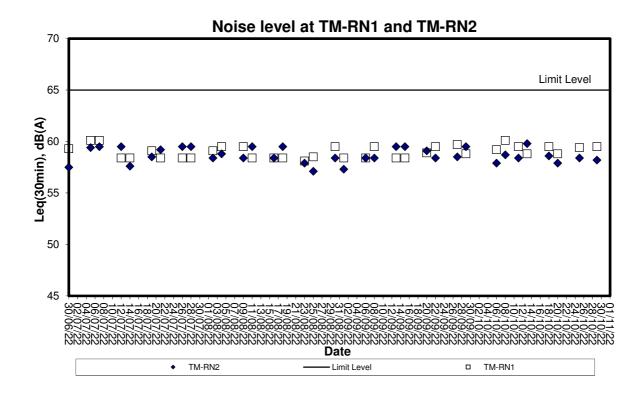


Appendix D3

Graphical Plots of Impact Noise Monitoring Data



Noise Monitoring (Day-time)





Appendix E

Weather Condition

	· · · · · · · · · · · · · · · · · · ·		eteorolog			,			
	Mean				Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	r Temperatu	ıre	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	(8)	Min					
		(deg. C)		(deg. C)					
1	1012.9	30.5	27.7	25.7	25.1	86	2.6	80	27.9
2	1012.9	31.9	28.9	27.7	25.4	81	Trace	80	30.2
3	1013.5	33	29.5	27.5	24.6	76	-	70	16.9
4	1013.6	33.5	29.4	27.5	24.6	76	_	70	9.3
5	1014.4	31.4	29.1	27.8	24.2	75	Trace	90	26
6	1015	32	28.9	27.3	23.7	74	Trace	80	33.2
7	1014.9	31.5	28.3	25.8	23.7	77	22.8	80	31.7
8	1015.4	30.4	27.7	26	22	71	Trace	50	30.7
9	1016.4	31	27.1	23.7	21.1	71	4.8	80	32
10	1018	26.6	24	21.6	13.2	51	-	360	43.6
11	1016.8	28.1	24.1	21.2	12.4	48	-	360	24.3
12	1015.4	29.6	25.2	21.9	13.8	50	-	20	23.5
13	1013.5	29.6	26	23.3	17.5	60	-	80	26.2
14	1012.1	31	26.9	24.9	19.8	66	-	80	29
15	1010.9	31.6	27.5	24.1	16.7	53	-	360	21.3
16	1009.1	31.3	28.3	25.6	15.4	46	-	360	39.1
17	1008.9	29	27.2	26.3	14.2	45	Trace	10	53.8
18	1013.3	26.7	20.9	17.3	14	67	19.7	10	49.8
19	1015.7	26.2	23	18.3	13	54	-	60	46.8
20	1017.5	27.2	24.3	22.7	16.9	64	-	70	48.5
21	1017.2	28.5	25.2	23.2	18.7	68	-	80	31.9
22	1015.5	30.3	26.6	22.8	19.5	67	Trace	90	11.9
23	1014.9	30.7	26.5	24.3	20.6	71	-	80	23
24	1016.1	27.1	25.2	23.8	18.8	68	-	80	45.5
25	1018.2	25.8	23.8	22.6	16.2	63	-	80	51
26	1017.2	26.7	23.9	22	17.2	66	-	80	34.3
27	1015.9	28.1	24.6	22.4	18.5	70	-	70	25.8
28	1015.4	30	25.5	23.3	18.9	68	-	70	24.8
29	1014.2	30	25.7	23.7	18.6	65	-	80	18.3
30	1011.4	28.2	25.4	22.6	16.2	57	-	10	30.9
31	1008.7	27.2	25.4	23.8	14.1	50	-	360	49.8

Daily Extract of Meteorological Observations , October 2022 - Tuen Mun

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



Appendix F

Event-Action Plans

	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 	ľ	 Take Immediate action to avoid further exceedance Submit proposals for remedial actions to fC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate.
LITY EXCEEDANCE	Ĕ		1. Notify Contractor	 Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures property implemented 		 Confirm receipt of notification of faiture in writing Notify the Contractor Ensure remedial measures properly implemented
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE ACTION			 Check monitoring data submitted by the ET Check contractor's working method 	 Check monitoring data submitted by the ET Leader Check the Contractor's working method 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 		 Check monitoring data submitted by the ET Leader Check Contractor's working method 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
		EILeader	 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 	rrce, investigate the causes nce and propose remedial :) and Contractor asurements to confirm entoring frequency to daily in IC(E) and Contractor on ctions nce continues, arrange th IC(E) and ER.	monuoruig	 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, Contractor and EPD Repeat measurement to confirm finding Assess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results
EVENT	1		1. Exceedance for one sample	 Exceedance for two or more consecutive samples 		1. Exceedance for one sample

	ic(E) ER Contractor	Discuss amongst ER, ET and Contractor on the potential remedial actions 1. Confirm receipt of notification of failure in writing 1. Take immediate action to evoid further exceedances Review Contractor's remedial actions 2. Notify Contractor 2. Submit proposals for remediai actions to IC(E) within 3 whenever necessary to assure their whenever necessary to assure their supervise the implementation of remediai measures 3. In consultation with the IC(E), actions to IC(E) within 3 2. Submit proposals for remediai actions to IC(E) within 3 Amongst ER, accordingly supervise the implementation of remediai measures 3. In consultation with the IC(E), actions to IC(E) within 3 3. In consultation with the IC(E), working days of notification implemented 5. If exceedances construes 3. Implemented 5. If exceedances continues, working days of notification implemented 4. Resubmit proposals increased instruct the Contractor to stop that portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated
EVENT/AC1	ET Leader	Identify source, investigate the causes of exceedance and propose remedial measures Notify IC(E), ER, EPD and Contractor Repeat measurement to confirm finding Increase monitoring frequency to daily finding Increase monitoring frequency to daily Carry out analysis of contractor's working procedures to determine possible mitigation to be implemented Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken Assess effectiveness of Contractor's remedial actions to be taken and ER informed of the results if exceedance stops, cease additional monitoring
		મં સંસં અંગે મેં જે
EVENT		2. Exceedance for two or more consecutive samples

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	Contractor	 Submit noise mitigation proposals to IC(E). Implement noise mitigation proposals. 	 Take Immediate action to avoid further exceedance Submit proposals for remedial actions to IC(E) within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedances is abated. 	
	ЯЛ	 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. 	 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. If exceedances continue, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedances is abated. 	
EVENT/ACTION PLAN FOR NOISE EXCEEDANCE ACTION	IC(E)	 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. 	 Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. Supervise the Implementation of remedial measures. 	
	ET Leader	I the Contractor. Ion. f investigation to ontractor. intractor and measures. infrequency to ectiveness	 Notify the IC(E), the ER, the EPD and the Contractor. Identify source. Repeat measurement to confirm findings. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform the IC(E), the ER and the EPD the causes & actions taken for the exceedances. Assess effectiveness of Contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results If exceedance due to the construction works stops, cease additional monitoring 	
EVENT		Level	Limit Leveit t	

		EVENT AND	A	-	AIF	ACTION PLAN FOR WALER QUART I EAVEEDANVE	ų		
				ACTION	Ň				Г
		ET Leader	L	Contractor		ER		IEC	Ţ
Action level	÷	Identify source(s) of impact:	Ŀ	Notify the ER and IEC in writing	÷	Notify EPD and other relevant	:	Check monitoring data	
heinn evreeded	5	Reneat in-situ measurement to		within 24 hours of identification of		governmental agencies in writing		submitted by ET	
	i	confirm findings		exceedance		within 24 hours of the	4	Confirm ET assessment if	
eamoline day	٣	Notify Contractor in writing within	~	Rectify unacceptable practice:		identification of the exceedance		exceedance is due / not due	e
	j.	24 hours of Identification of the	ं लं	Check all plant and equipment:	,	Discuss with IEC, ET and		to the works	
			4	Submit investigation report to IEC		Contractor on the proposed	ಲ	Discuss with ET, ER and	
	Þ	Check monitoring data, all plant.	:	and ER within 3 working days of		mitigation measures;		Contractor on the mitigation	_
	•	automent and Contractor's		the identification of an	Ċ	Require contractor to propose		measures	
		working methods:		exceedance		remedial measures for the	4	Review contractor's	
	Ľ	Carry out investigation	ŝ	Consider changes of working		analysed problem if related to the		mitigation measures	
	່	Report the results of investigation	i 	method if exceedance is due to		construction works		whenever necessary to	
	;	In the Contractor within 3 working		the construction works	4	Ensure remedial measures are		ensure their effectiveness	
		clave of identification of	9	Discuss with ET. IEC and ER and		property implemented		and advise the ER	
		avreadance and advise		propose mitigation measures to	ທ່	Assess the effectiveness of the		accordingly	
		contractor if exceedance is due to		IEC and ER if exceedance is due		mitigation measure	ഗ്		
		contractor's construction works		to the construction works within 4		1		implementation of mitigation	ç
	►.	Discuss mitigation measures with		working days of identification of				measures	
		Contractor if exceedance is due		an exceedance					
		to the construction works within 4	r.	Implement the agreed mitigation					
		working days		measures within reasonable time					
	ထ်	Repeat measurement on next day		scale					
		of exceedance if exceedance is							
		due to the construction works							٦

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Event	<u> </u>			EVENT AND ACTION PLAN FOR WATER QUALITY	N FO	R WATER QUALITY		
				ACTION	N			
	ŀ	ET Leader		Contractor		ER	IEC	0
Action level	÷.	Identify source(s) of impact;	-	Notify IEC and ER in writing	~ :	Notify EPD and other relevant	1. Check monitoring data	itoring data
being	R	Repeat in-situ measurement		within 24 hours of		governmental agencies in	submitted by ET	y ET
exceeded by		to confirm findings		identification of exceedance		writing within 24 hours of the	2. Confirm ET	Confirm ET assessment
more than one	က်	Notify Contractor in writing	2			identification of the	if exceedance is due	ce is due /
consecutive		within 24 hours of	က်	Check all plant and		exceedance	not due to the works	he works
sampling days		identification		equipment;	ы М	Discuss with IEC, ET and	3. Discuss with	Discuss with ET, ER and
	4	Check monitoring data, all	4			Contractor on the proposed	Contractor on the	on the
		plant, equipment and		methods;		mitigation measures;	mitigation measures.	neasures.
		Contractor's working methods;	ഗ്		က်	Require contractor to propose	4. Review contractor's	itractor's
	ശ്			investigation to IEC and ER		remedial measures for the	mitigation measures	neasures
	ം			within 3 working days of the		analysed problem if related to	whenever n	whenever necessary to
		investigation to the Contractor		identification of an		the construction works	ensure their	
		within 3 working days of		exceedance	4	Ensure remedial measures	effectivenes	effectiveness and advise
		identification of exceedance	ö	Disc		are properly implemented		ordingly
		and advise contractor if		and propose mitigation	ທ່	Assess the effectiveness of	5. Assess the	Assess the effectiveness
		exceedance is due to		measures to IEC and ER		the mitigation measure	of the implemented	mented
		contractor's construction		within 4 working days of			mitigation measures.	neasures.
		works		identification of an				
	~			exceedance				
		with IEC and Contractor within	~	Implement the agreed				
<u>,</u>		4 working of identification of		mitigation measures within				
		an exceedance		reasonable time scale		-		
	ю	Ensure mitigation measures						
		are implemented;						
	တ်	Prepare to increase the						
		monitoring frequency to daily;						
	ő							
		day of exceedance.						

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	
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Event		EVEN	ĭ₹	EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	ATE	R QUALITY EXCEEDANCI	ш		
				ACTION	N				-
• •••••••••••••••••••••••••••••••••••••		ET Leader		Contractor		ER		IEC	
Limit Level	F	Repeat in-situ measurement	-	Notify ER and IEC in writing	÷	Notify EPD and other relevant	÷	Check monitoring data	
beina				within 24 hours of the		governmental agencies in		submitted by ET	
exceeded by	2			Identification of the		writing within 24 hours of	ri,	Confirm ET assessment	
more than one	i m	_		exceedance and		identification of exceedance		if exceedance is due /	
consecutive			ri	Rectify unacceptable practice;	c,i	Discuss with IEC, ET and		not due to the works	
samoling days		identification of the	က်	Check all plant and		Contractor on the proposed	က်	Discuss with ER, ET and	
		exceedance		equipment;		mitigation measures;		Contractor on the	
	4	Check monitoring data, all	4	Consider changes of working	ń	Request Contractor to critically		mitigation measures.	
		plant, equipment and		methods;		review the working methods;	4	Review proposals on	
	_	Contractor's working methods:	ω.	Submit the results of the	ശ്	Ensure remedial measures		mitigation measures	
	ي م	-		investigation to IEC and ER		are properly implemented		submitted by Contractor	
	ģ			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;	ശ്	Assess the effectiveness	
		Identification of exceedance	പ	Discuss with ET, IEC and ER	ഗ	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	ú	Implement the agreed		exceedance of Limit Level.			
	~	Discuss mitigation measures		mitigation measures within					
		-		reasonable time scale					
-	α		~	As directed by the Engineer,					
		are implemented;		to slow down or to stop all or					
	တ်	Increase the monitoring		part of the marine work or					
		frequency to daily until no		construction actives.					
		exceedance of Limit Level for							
		two consecutive days.			_				٦



Appendix G

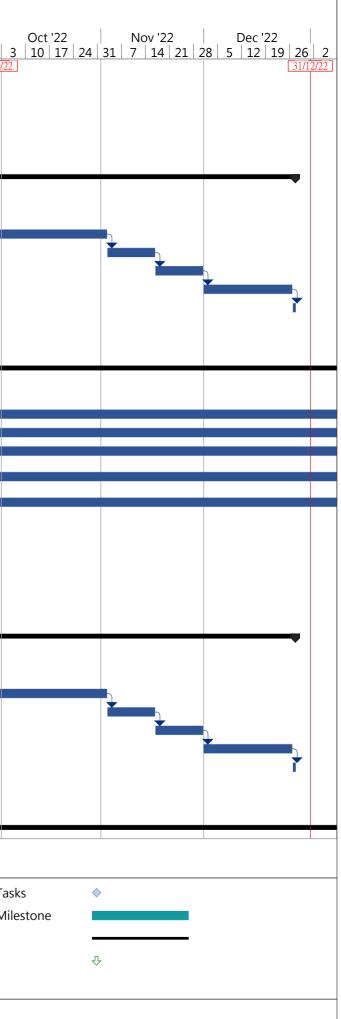
Construction Programme

	8	Task Name		Baseline Start	Baseline Finish	Start	Finish	Duration	Predec		Slack	Actual Start	Actual Finish	26 3
1		Contract duration of Contract CV/2021/9		Sat 1/1/22	Sun 31/12/2	3 Sat 1/1/22	Sun 31/12/23	730 days			0 days	NA	NA	1/10/22
2		Contract date, Date of the Letter of Acceptance	e (assumed)	Mon 20/12/21	Mon 20/12/2	1Mon 20/12/2	1Mon 20/12/21	0 days			742 days	NA	NA	
3		Starting Date of the Works		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			729 days	NA	NA	
4		Starting Date of Section 1 of the Works		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	NA	NA	
5		Starting Date of Section 2 of the Works		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			729 days	NA	NA	
6		Starting Date of Section 3 of the Works		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	NA	NA	
7		Date for Completion of the Works		Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/2	3 Sun 31/12/23	0 days			1 day	NA	NA	
8		Completion Date of Section 1 of the Works		Sun 31/12/23	Sun 31/12/23	3 Sun 31/12/23	3 Sun 31/12/23	0 days			0 days	NA	NA	
9		Completion Date of Section 2 of the Works		Sun 31/12/23	Sun 31/12/23	3 Sun 31/12/23	3 Sun 31/12/23	0 days			0 days	NA	NA	
10		Completion Date of Section 3 of the Works		Sun 31/12/23	Sun 31/12/23	3 Sun 31/12/23	3 Sun 31/12/23	0 days			0 days	NA	NA	
11		Planned completion dates		Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/2	3 Sun 31/12/23	0 days			0 days	NA	NA	
12		Planned competion date of Section 1		Sun 31/12/23	Sun 31/12/23	3 Sun 31/12/23	3 Sun 31/12/23	0 days			0 days	NA	NA	
13		Planned competion date of Section 2		Sun 31/12/23	Sun 31/12/23	3 Sun 31/12/23	3 Sun 31/12/23	0 days			0 days	NA	NA	
14		Planned competion date of Section 3		Sun 31/12/23	Sun 31/12/23	3 Sun 31/12/23	3 Sun 31/12/23	0 days			0 days	NA	NA	
15		Access Date of the Site		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			729 days	NA	NA	
16		Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2, A date)	10 and A11 (within 60 days after starting	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	Sat 1/1/22	Sat 1/1/22	
17	<₽	Portion B1, B3, B6a, B6b and B7 (within 60 days a	fter starting date)	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	Sat 1/1/22	Sat 1/1/22	
18	$\sqrt{2}$	Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 d	ay's advance notice after starting date)	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	Sat 1/1/22	Sat 1/1/22	
19	<u> </u>	Portion B6c (7 day's advance notice after starting of	Jate)	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	Sat 1/1/22	Sat 1/1/22	
20		Hand back of the Site		Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/23	3 Sun 31/12/23	0 days			0 days	NA	NA	
21		Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 an	d A11 (or at an earlier date notified by the	Sun 31/12/23		Sun	Sun 31/12/23	0 days			0 days	NA	NA	
22		Project Manager with 30 days' advance notice) Portion A1, A7b, A7c1, A9 and A9a (or at an earlie with 30 days' advance notice)	r date as notified by the Project Manager	Sun 31/12/23	31/12/23 Sun 31/12/23	31/12/23 Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	
23		Portion B1, B3, B6a, B6b and B7 (or at an earlier d	late as notified by the Project Manager with	Sun 31/12/23		Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	
24		30 days' advance notice) Portion B6c (or at an earlier date as notified by the	Project Manager with 30 days' advance	Sun 31/12/23	Sun	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	
25		notice) Section 1 of the Works - Tseung Kwan O Area 1	137 Fill Bank	Sat 1/1/22	31/12/23 Sun 31/12/23		Sun 31/12/23	730 days	4SS		0 days	Sat 1/1/22	NA	
26	<u> </u>	Taking over the existing facilities at the Tseung		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	1 day	4SS	0	0 days	Sat 1/1/22	Sat 1/1/22	
27		of the Site Operation of the the Tseung Kwan O Area 137	Fill Bank within Portion A of the Site	Sat 1/1/22	Sun 31/12/23	3 Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	
		Operation and maintenance of the surveillance		Sat 1/1/22	Sun 31/12/23		Sun 31/12/23	-		0	0 days		NA	
		Operation and maintenance of the existing tippi	•	I Sat 1/1/22	Sun	Sat 1/1/22	Sun 31/12/23	-			0 days	Sat 1/1/22	NA	
	- <u></u>	Bank within Portion A of the Site Provision, operation and maintenance of the Cr		Sat 1/1/22	31/12/23 Sun	Sat 1/1/22	Sun 31/12/23	-		0	0 days	Sat 1/1/22	NA	
		137 Fill Bank within Portion A of the Site			31/12/23						-			
31	<u> 11</u>	Operation and maintenance of the dewatering p Bank within portion A of the SIte.	ant at the Tseung Kwan O Area 137 Fill	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	2655	0	0 days	Sat 1/1/22	NA	
32	<u>.</u> 4	Collection and delivery of Public Fill by barges f Points to the TKO Area 137 Fill Bank within Por	rom the Chai Wan and Mui Wo Barging rtion A of the Site	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	
33		Construction of Gabion wall		NA	NA	Sat 19/2/22	Sun 31/12/23	681 days			0 days	Sat 19/2/22	NA	
34	 Image: A set of the set of the	Preparing and submitting a method stateme	nt for approval	Sat 19/2/22	Fri 4/3/22	Sat 19/2/22	Wed 2/3/22	12 days		2	0 days	Sat 19/2/22	Wed 2/3/22	
35	V	Preparing and submitting the material submi	ission	Sat 5/3/22	Fri 18/3/22	Sat 19/2/22	Wed 2/3/22	12 days		2	0 days	Sat 19/2/22	Wed 2/3/22	
36	1	Obtaining approval from the Project Manage	۲	Sat 19/3/22	Fri 1/4/22	Tue 26/4/22	Tue 26/4/22	1 day	35,34	2	0 days	Tue 26/4/22	Tue 26/4/22	
		Construction of Gabion wall		Sat 2/4/22	Sun 31/12/23	3 Mon 4/7/22	Sun 31/12/23	546 days		7	0 days	Mon 4/7/22	NA	
38	7	Re-surfacing of the access road at A11 TKO	FB	NA	NA	Mon 21/3/22	Fri 22/4/22	33 days			0 days	Mon 21/3/22	Fri 22/4/22	
39	J.	Submission of method statement of re-surfa	acing the access road	NA	NA	Mon 21/3/22	Fri 25/3/22	5 days		0	0 days	Mon 21/3/22	Fri 25/3/22	
40	v	Obtaining approval from the Project Manage	ır	NA	NA	Thu 7/4/22	Thu 7/4/22	1 day	39	2	0 days	Thu 7/4/22	Thu 7/4/22	
			Tesl											
			Task		kternal Tasks				ration-o	,				nal Task
			Split	Ex	kternal Miles	tone	♦	Ma	nual Su	ımmar	y Rollup	•	Exteri	nal Mile
	0	rolling Drogramma Octoo to De-00 OV/0004/00										•	-	
	3month /10/2022	rolling Programme Oct22 to Dec22 CV/2021/09 2]	Milestone 🔶	In	active Milest	one		IVIa	inual Su	ımmar	y 📢	•	Progr	ress
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				■ In		nary	\diamond	Sta			y I			

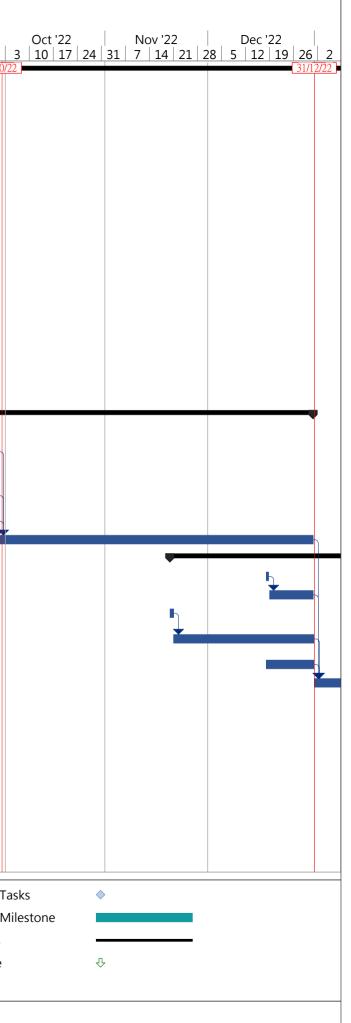
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80	-	Section 3 of the Works - Designated Reclamation Sites in the Mainland	Mon 20/12/21	Sun 31/12/2	Tue 7/12/21	Sun 31/12/23	755 davs			0 days	Tue 7/12/21	NA	╞━━╇╋	
79		Planned Completion Date (Section 2)	Sun 31/12/23			Sun 31/12/23	0 days			0 days	NA	NA		
78		Handing over the facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site to the Employer	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	1 day	9SS	0	0 days	NA	NA		
77		Operation with C easy system individually	NA	NA	Tue 27/12/22	Tue 27/12/22	1 day	76	0	369 days	NA	NA]	
76		Parallel run with the old system	NA	NA	Thu 1/12/22	Mon 26/12/22	26 days	75	2	369 days	NA	NA		
75		Trail run of the system	NA	NA	Thu 17/11/22	Wed 30/11/22	14 days	74			NA	NA		
74		Installation of the C Easy system	NA	NA	Thu 3/11/22	Wed 16/11/22	14 days	73	2	369 days	NA	NA		
73		Ordering and delivery of C easy system hardware to site	NA	NA	Mon 19/9/22	Wed 2/11/22	45 days	72	3	369 days	NA	NA		
72		Obtaining approval from the Project Manager	NA	NA	Mon 29/8/22	Sun 18/9/22	21 days	71	2	369 days	NA	NA		
71		Submission of method statement for approval	NA	NA	Mon 22/8/22	Sun 28/8/22	7 days		1	369 days	NA	NA]	
70		PMI no.20 Implementation of C easy system at TMFB	NA	NA	Mon 22/8/22	Tue 27/12/22	128 days			369 days	NA	NA	┣━━┿┿━	_
69		Trial run of vehicle washing house facilities	NA	NA	Fri 2/9/22	Fri 2/9/22	1 day	68	0	485 days	NA	NA	1	
68		Installation of the vehicle washing house facilities	NA	NA	Tue 9/8/22	Thu 1/9/22	24 days	67	2	485 days	NA	NA	1	
67		Fabrication and delivery of the vehicle washing house facilities materials on site	NA	NA	Fri 10/6/22	Mon 8/8/22	60 days		5	485 days	Fri 10/6/22	NA	1	
66	 Image: A second s	Obtaning approval from the Project Manager	NA	NA	Mon 25/4/22	Mon 25/4/22	1 day	65	2	0 days	Mon 25/4/22	Mon 25/4/22	1	
65	 Image: A second s	Submission of method statement of vehicle washing house facilities	NA	NA	Wed 6/4/22	Wed 6/4/22	1 day		1	0 days	Wed 6/4/22	Wed 6/4/22	1	
64		PMI no.05 Construction of vehicle washing house facilities	NA	NA	Wed 6/4/22	Fri 2/9/22	150 days			485 days	Wed 6/4/22	NA	1	
63		Operation and maintemnance of glass cullet storage compartment at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0	0 days	Sat 1/1/22	NA		
62	驖	Operation and Maintenance of the Crushing Plant at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	588	0	0 days	Sat 1/1/22	NA		
61		within Portion B of the Site		31/12/23						-				
60	<u>11</u>	Operation and maintenance of the surveillance system within Portion B of the Site Operation and maintenance of the existing tipping halls at the Tuen Mun Area 38 Fill Bank	Sat 1/1/22 Sat 1/1/22	Sun 31/12/23 Sun		Sun 31/12/23 Sun 31/12/23	-			0 days 0 days		NA		
59	<u>111</u>	Operation of the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sat 1/1/22	Sun 31/12/23		Sun 31/12/23	,			0 days		NA	-	
	×	Site												
58		Taking over the existing facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the		Sat 1/1/22		Sat 1/1/22	1 day	5SS		0 days		Sat 1/1/22	-	
56 57		Section 2 of the Works - Tuen Mun Area 38 Fill Bank	Sat 1/1/22			Sun 31/12/23	,			0 days		NA		
		Site to the Employer Planned Completion Date (Section 1)	Sun 31/12/22	31/12/23 Sup 31/12/23	31/12/23 Sup 31/12/23	Sun 31/12/23	0 dave			1 day	NA	NA	-	
55		Handing over the facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the	Sun 31/12/23			Sun 31/12/23	,	8SS		0 days	NA	NA	-	
55		Operation with C easy system individually	NA	NA		Tue 27/12/22	,	53		369 days	NA	NA	-	
53		Parallel run with the old system	NA	NA		Mon 26/12/22		52		369 days	NA	NA	-	
52		Trail run of the system	NA	NA		Wed 30/11/22	-			369 days	NA	NA	-	
50		Installation of the C Easy system	NA	NA		Wed 16/11/22		50		,		NA		
49 50		Ordering and delivery of C easy system hardware to site	NA	NA		Wed 2/11/22	,					NA		
48 49		Obtaining approval from the Project Manager	NA	NA		Sun 18/9/22	,	48		369 days	NA	NA	-	
47		PMI no.24 Implementation of C easy system at TKOFB Submission of method statement for approval	NA NA	NA		Tue 27/12/22 Sun 28/8/22	7 days			369 days 369 days	NA	NA	-	
46		Trial Production of blanket layer material	NA	NA		Wed 24/8/22	,			494 days	NA	NA	-	
45		Manufacturing and delivery of screening machine	NA	NA	Fri 22/7/22		21 days			0 days		Thu 11/8/22	_	
44		Obtaining approval from the Project Manager	NA	NA	Sat 30/7/22		22 days	43		498 days	NA	NA		
43	<u> </u>	Submission of method statement	NA	NA	Tue 28/6/22		32 days			0 days	Tue 28/6/22			
42		PMI no.3 Trial Production of blanket layer material recycled from public fill	NA	NA			58 days			-	Tue 28/6/22			
41	\checkmark	Milling off the existing pavement, overlaying new pavement on the access road	NA	NA			8 days	40		0 days		Fri 22/4/22	1/10/2	<u>:2</u>
	0								allow				26	3
			Start	Finish						Slack	Start	Finish		

	Task		External Tasks		Duration-only		External Tas
	Split		External Milestone	•	Manual Summary Rollup	•	External Mile
Project: 3month rolling Programme Oct22 to Dec22 CV/2021/09 Date: [1/10/2022]	Milestone	•	Inactive Milestone		Manual Summary	•	Progress
	Summary		Inactive Summary		Start-only		Deadline
	Project Summary	╺──────	Manual Task	\diamond	Finish-only		
				Page 2			



		Task Name		Baseline Start	Baseline Finish	Start	Finish	Duration			Slack	Actual Start	Actual Finish	
	A									allow				26
81	Ŭ	Collection and delivery of 2 million tonnes o Kwan O Area 137 Fill Bank and the Tuen Mu Reclamation Sites in the Mainland		Mon 20/12/21	Sun 31/12/23	Tue 7/12/21	Wed 20/12/23	744 days			11 days	Tue 7/12/21	NA	
82	 Image: A set of the set of the	1st and 2nd quarter of first year		Mon 20/12/21	Thu 31/3/22	Tue 7/12/21	Tue 14/6/22	190 days			0 days	Tue 7/12/21	Tue 14/6/2	2
83	v	Installing Front End Mobile Unit (FEMU)	onto the proposed vessels	Mon 20/12/21	Sun 26/12/21	Fri 20/5/22	Fri 20/5/22	1 day		2	0 days	Fri 20/5/22	Fri 20/5/22	:
84	√	Submitting application documents to EPI	D for application of dumping permits	Mon 20/12/21	Mon 20/12/2	1 Tue 28/12/21	Tue 28/12/21	1 day		0	0 days	Tue 28/12/21	Tue 28/12/	21
85	 Image: A set of the set of the	Obtaining the dumping permit from EPD		Tue 21/12/21	Fri 31/12/21	Wed 25/5/22	Wed 25/5/22	1 day	84	2	0 days	Wed 25/5/22	Wed 25/5/2	22
86	~	Submitting Application documents to the permit of waste at the sea Obtaining the dumping permits from Mir	Employer for the application of the dumping	Mon 20/12/21 Tue 21/12/21	20/12/21	Tue 7/12/21		1 day 1 day		14	0 days	Tue 7/12/21 Tue 26/4/22		
87	~	People's Republic of China through the E		106 21/12/21	111 31/12/21	TUE 20/4/22	100 20/4/22	Tuay		14	0 days	100 20/4/22	100 20/4/2	.2
88	 Image: A set of the set of the	Obtaining all necessary permits, licenses	s,approvals and concents	Mon 20/12/21	Fri 31/12/21	Wed 25/5/22	Wed 25/5/22	1 day		14	0 days	Wed 25/5/22	Wed 25/5/2	22
89	 Image: A set of the set of the	Collection and delivery of 166666 tonnes	of Public Fill	Sat 1/1/22	Thu 31/3/22	Wed 25/5/22	Tue 14/6/22	21 days		10	0 days	Wed 25/5/22	Tue 14/6/2	2
90	 ✓ 	3rd quarter of first year		Fri 20/5/22	Fri 30/9/22	Tue 28/12/21	Mon 13/6/22	168 days			0 days	Tue 28/12/	Mon 13/6/2	22
91	 Image: A start of the start of	Submitting application documents to EPI	D for application of dumping permits	Fri 17/6/22	Fri 17/6/22	Tue 28/12/21	Tue 28/12/21	1 day		0	0 days	Tue 28/12/21	Tue 28/12/	21
92	 Image: A start of the start of	Obtaining the dumping permit from EPD		Sat 18/6/22	Thu 30/6/22	Wed 25/5/22	Wed 25/5/22	1 day	91	14	0 days	Wed 25/5/22	Wed 25/5/2	22
93	~	permit of waste at the sea	Employer for the application of the dumping			Fri 8/4/22	Fri 8/4/22	1 day		0	0 days		Fri 8/4/22	
94	✓ ✓	Obtaining the dumping permits from Min People's Republic of China through the E Obtaining all necessary permits, licenses	Employer	Sat 21/5/22 Fri 17/6/22		Tue 26/4/22 Wed 25/5/22	Tue 26/4/22 Wed 25/5/22	1 day 1 day			0 days 0 days	Tue 26/4/22 Wed 25/5/22		
	ž	Collection and delivery of 499998 tonnes	· • • •	Fri 1/7/22			Mon 13/6/22	1 day	95,92,94		0 days	Mon 13/6/22		
	~	4th quarter of first year		Sat 20/8/22				134 days	33,32,34		12 days	NA	NA	-2
97		Submitting application documents to EPI	for application of dumping permits	Sat 20/0/22 Sat 17/9/22		Sat 20/0/22 Sat 17/9/22		1 day		0	12 days	NA	NA	$-\Box$
98		Obtaining the dumping permit from EPD		Sun 18/9/22		Sun 18/9/22		13 days		2	12 days	NA	NA	
99 100			Employer for the application of the dumping		Sat 20/8/22			1 day		0	12 days	NA	NA	
		Obtaining the dumping permits from Min People's Republic of China through the E	Employer (assumed on 30/9/22)	Sun 21/8/22		Sun 21/8/22		,	100	14	12 days	NA	NA	
102		Obtaining all necessary permits, licenses		Sat 17/9/22	Fri 30/9/22	Sat 17/9/22	Fri 30/9/22	14 days		2	12 days	NA	NA	
103		Collection and delivery of 333332 tonnes	of Public Fill	Sat 1/10/22	Sat 31/12/22	Sat 1/10/22	Sat 31/12/22	92 days	96,102,1	14	12 days	NA	NA	
104		1st quarter of second year		Sun 20/11/22				132 days			12 days	NA	NA	
105		Submitting application documents to EPI					2 Sun 18/12/22			0	12 days	NA	NA	
106		Obtaining the dumping permit from EPD	(assumed on 31/12/22)	Mon 19/12/22	Sat 31/12/22	Mon 19/12/22	2 Sat 31/12/22	,	105	2	12 days	NA	NA	
		Submiting Application documents to the l permit of waste at the sea Obtaining the dumping permits from Min		Sun 20/11/22 Mon 21/11/22	20/11/22	Sun 20/11/22 Mon	Sun 20/11/22 Sat 31/12/22			0 14	12 days 12 days	NA	NA	
		People's Republic of China through the E	Employer			21/11/22								
		Obtaining all necessary permits, licenses						14 days		2	12 days	NA	NA	
110		Collection and delivery of 250000 tonnes		Sun 1/1/23		Sun 1/1/23		90 days	103,109,	14	12 days	NA	NA	
		2nd quarter of second year		Sat 18/2/23		Sat 18/2/23		133 days			12 days	NA	NA	
		Submitting application documents to EPI		Sat 18/3/23	Sat 18/3/23			1 day		0	12 days	NA	NA	_
113 114		Obtaining the dumping permit from EPD Submiting Application documents to the permit of waste at the sea	,	Sun 19/3/23 Sat 18/2/23	Fri 31/3/23 Sat 18/2/23	Sun 19/3/23 Sat 18/2/23		13 days 1 day		2 0	12 days 12 days	NA NA	NA	_
115		Obtaining the dumping permits from Min People's Republic of China through the E		Sun 19/2/23	Fri 31/3/23	Sun 19/2/23	Fri 31/3/23	41 days	114	14	12 days	NA	NA	
116		Obtaining all necessary permits, licenses	s,approvals and concents	Sat 18/3/23	Fri 31/3/23	Sat 18/3/23	Fri 31/3/23	14 days		2	12 days	NA	NA	
117		Collection and delivery of 250000 tonnes	s of Public Fill	Sat 1/4/23	Fri 30/6/23	Sat 1/4/23	Fri 30/6/23	91 days	110,113,	14	12 days	NA	NA	
118		3rd quarter of second year		Sat 20/5/23	Sat 30/9/23	Sat 20/5/23	Sat 30/9/23	134 days			12 days	NA	NA	
119		Submitting application documents to EPI	D for application of dumping permits	Sat 17/6/23	Sat 17/6/23	Sat 17/6/23	Sat 17/6/23	1 day		0	12 days	NA	NA	
			Task	Ext	ternal Tasks			Du	ration-o	nly			Ext	ternal T
			Split	Ext	ternal Milest	tone	•	Ma	nual Sur	mmar	y Rollup	•	Ext	ternal N
	3month (/10/2022	rolling Programme Oct22 to Dec22 CV/2021/09]	Milestone \blacklozenge		active Milest				inual Sur			•		ogress
			Summary -	Ina	active Summ	hary		Sta	rt-only				De	adline
			Project Summary		anual Task	5	\diamond		ish-only		I	_		



Obtaining the dumping permit from EPD (assumed on 30/6/23) Submitting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on 30/6/23) Obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 250000 tonnes of Public Fill 4th quarter of second year Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/9/23) Submitting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 250000 tonnes of Public Fill o llection and delivery of 250000 tonnes of Public Fill o llection and delivery of 8 million tonnes of Public Fill By vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21) Submitting Application documents to the Employer for the application of the dumping Permits (Data in the dumping permits) (Detaining the dumping permits) Obtaining the dumping permit from EPD (assumed on 31/12/21) Submitting Application documents to the Employer for the application of the dumping Permits (Dbtaining the dumping permit from EPD (assumed on 31/12/21) Submitting Application documents to the Employer for the application of the dumping Permits (Dbtaining the dumping permit from EPD (assumed	Sun 21/5/23 Sat 17/6/23 Sat 1/7/23 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 Sun 17/9/23 Sun 1/10/23 Mon 20/12/21 Mon 20/12/21	Sat 20/5/23 Fri 30/6/23 Fri 30/6/23 Sat 30/9/23 Sun 31/12/2 Sun 17/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Sat 20/5/23 Fri 30/6/23 Fri 30/6/23 Sat 30/9/23 Wed 20/12/23 Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23	1 day 41 days 92 days 123 days 1 day 1 day 1 day 41 days 14 days 80 days	119 121 117,123, 126 128	0 14 2 14 0 2 0 2 0 14 0		Start NA NA NA NA NA NA NA NA NA NA NA	Finish NA NA NA NA NA NA NA NA NA NA	26		Nov '22	Dec '22	
Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on 30/6/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill 4th quarter of second year Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/9/23) Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill Buy vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	 Sat 20/5/23 Sun 21/5/23 Sun 21/5/23 Sat 17/6/23 Sat 17/6/23 Sun 20/8/23 Sun 17/9/23 Mon 21/8/23 Sun 17/9/23 Sun 17/9/23 Sun 17/9/23 Sun 17/9/23 Mon 21/12/24 Mon 20/12/24 Mon 20/12/24 	Sat 20/5/23 Fri 30/6/23 Fri 30/6/23 Sat 30/9/23 Sun 31/12/2 Sun 17/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Sat 20/5/23 Sun 21/5/23 Sat 17/6/23 Sat 1/7/23 3 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Sat 20/5/23 Fri 30/6/23 Fri 30/6/23 Sat 30/9/23 Wed 20/12/23 Sun 17/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	1 day 41 days 92 days 123 days 1 day 1 day 1 day 41 days 14 days 80 days	119 121 117,123, 126 128	14 0 14 2 14 0 2 0 2 0 14 0	12 days 12 days	NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA	in the second se	3 10 17 24			
Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on 30/6/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill 4th quarter of second year Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/9/23) Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill Buy vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	 Sat 20/5/23 Sun 21/5/23 Sun 21/5/23 Sat 17/6/23 Sat 17/6/23 Sun 20/8/23 Sun 17/9/23 Mon 21/8/23 Sun 17/9/23 Sun 17/9/23 Sun 17/9/23 Sun 17/9/23 Mon 21/12/24 Mon 20/12/24 Mon 20/12/24 	Sat 20/5/23 Fri 30/6/23 Fri 30/6/23 Sat 30/9/23 Sun 31/12/2 Sun 17/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Sat 20/5/23 Sun 21/5/23 Sat 17/6/23 Sat 1/7/23 3 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Sat 20/5/23 Fri 30/6/23 Fri 30/6/23 Sat 30/9/23 Wed 20/12/23 Sun 17/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	1 day 41 days 92 days 123 days 1 day 1 day 1 day 41 days 14 days 80 days	121 117,123, 126 128	0 14 2 14 0 2 0 2 0 14 0	12 days 12 days 12 days 12 days 12 days 12 days 12 days 12 days 12 days 12 days	NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA	in the second se			1 20 3 12 -	31/12/2.
 permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on 30/6/23) Obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 250000 tonnes of Public Fill 4th quarter of second year Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/9/23) Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 250000 tonnes of Public Fill obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 250000 tonnes of Public Fill obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 250000 tonnes of Public Fill obtaining Till Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21) 	Sun 21/5/23 Sat 17/6/23 Sat 1/7/23 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 Sun 17/9/23 Sun 1/10/23 Mon 20/12/21 Mon 20/12/21	Fri 30/6/23 Fri 30/6/23 Sat 30/9/23 Sun 31/12/2 Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Sun 21/5/23 Sat 17/6/23 Sat 1/7/23 3 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Fri 30/6/23 Fri 30/6/23 Sat 30/9/23 Wed 20/12/23 Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	41 days 14 days 92 days 123 days 1 day 13 days 1 day 41 days 14 days 80 days	121 117,123, 126 128	14 2 14 0 2 0 14 0	12 days 12 days 12 days 11 days 12 days 12 days 12 days 12 days 12 days	NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA					
People's Republic of China through the Employer (assumed on 30/6/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill 4th quarter of second year Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/9/23) Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill by vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Sat 17/6/23 Sat 1/7/23 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 Sun 17/9/23 Sun 1/10/23 Mon 20/12/21 Mon 20/12/21	Fri 30/6/23 Sat 30/9/23 Sun 31/12/2 Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Sat 17/6/23 Sat 1/7/23 3 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Fri 30/6/23 Sat 30/9/23 Wed 20/12/23 Sun 17/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	14 days 92 days 123 days 1 day 13 days 1 day 41 days 14 days 80 days	117,123, 126 128	2 14 0 2 0 14 0	12 days 12 days 11 days 12 days 12 days 12 days 12 days 12 days	NA NA NA NA NA NA	NA NA NA NA NA NA					
Collection and delivery of 250000 tonnes of Public Fill 4th quarter of second year Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/9/23) Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Sat 1/7/23 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 Sun 17/9/23 Sun 1/10/23 Mon 20/12/21 Mon 20/12/21	Sat 30/9/23 Sun 31/12/2 Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Sat 1/7/23 3 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Sat 30/9/23 Wed 20/12/23 Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	92 days 123 days 1 day 13 days 1 day 1 day 41 days 14 days 80 days	117,123, 126 128	14 0 2 0 14 0	12 days 11 days 12 days 12 days 12 days 12 days 12 days	NA NA NA NA NA	NA NA NA NA NA					
4th quarter of second year Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/9/23) Submitting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Jun 20/8/23 Mon 21/8/23 Sun 17/9/23 Sun 17/9/23 Sun 17/9/23 Mon 20/12/24 Mon 20/12/24	Sun 31/12/2 Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	3 Sun 20/8/23 Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Wed 20/12/23 Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	123 days 1 day 13 days 1 day 41 days 14 days 80 days	126	0 2 0 14 0	11 days 12 days	NA NA NA NA	NA NA NA NA					
Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/9/23) Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill by vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 Sun 1/10/23 Mon 20/12/21 Mon 20/12/21	Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Sun 17/9/23 Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Sun 17/9/23 Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	1 day 13 days 1 day 41 days 14 days 80 days	126 128	0 2 0 14 0	12 days 12 days 12 days 12 days 12 days	NA NA NA NA	NA NA NA					
Obtaining the dumping permit from EPD (assumed on 30/9/23) Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill by vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 Sun 1/10/23 Mon 20/12/21 Mon 20/12/21	Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Mon 18/9/23 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Sat 30/9/23 Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	13 days 1 day 41 days 14 days 80 days	126 128	2 0 14 0	12 days 12 days 12 days	NA NA NA	NA NA NA					
Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill by vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	 Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 Sun 1/10/23 Mon 20/12/24 Mon 20/12/24 	Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Sun 20/8/23 Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Sun 20/8/23 Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	1 day 41 days 14 days 80 days	128	0 14 0	12 days 12 days	NA	NA NA					
permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses,approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill by vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Mon 21/8/23 Sun 17/9/23 Sun 1/10/23 Mon 20/12/21 Mon 20/12/21	Sat 30/9/23 Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Mon 21/8/23 Sun 17/9/23 3 Mon 2/10/23	Sat 30/9/23 Sat 30/9/23 Wed 20/12/23	41 days 14 days 80 days	128	14 0	12 days	NA	NA					
People's Republic of China through the Employer(assumed on 30/9/23) Obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill by vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Sun 17/9/23 Sun 1/10/23 Mon 20/12/21 Mon 20/12/21	Sat 30/9/23 Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	Sun 17/9/23 3 Mon 2/10/23	Sat 30/9/23 Wed 20/12/23	14 days 80 days		0								
Collection and delivery of 250000 tonnes of Public Fill ollection and delivery of 8 million tonnes of Public Fill by vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Sun 1/10/23 Mon 20/12/21 Mon 20/12/21 Mon 20/12/21	Sun 31/12/23 1 Sun 31/12/23 1 Thu 31/3/22	3 Mon 2/10/23	Wed 20/12/23	80 days		•	12 days	NA	ΝΔ					
ollection and delivery of 8 million tonnes of Public Fill by vessels from Tseung wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Mon 20/12/21 Mon 20/12/21 Mon 20/12/21	1 Sun 31/12/23 1 Thu 31/3/22				124,130,	14								
wan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated eclamation Sites in the Mainland (subject to Project's Manager's instruction) 1st quarter of first year Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Mon 20/12/21	31/12/23 1 Thu 31/3/22	Tue 7/12/21	Wed 20/12/23	744 days			11 days	NA	NA					
Installing Front End Mobile Unit (FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)	Mon 20/12/21							11 days	NA	NA					
Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 31/12/21)			Tue 7/12/21	Thu 30/6/22	206 days			549 days	NA	NA					
Obtaining the dumping permit from EPD (assumed on 31/12/21)	Mon 20/12/21	1 Sun 26/12/2	1 Mon 20/12/2	1Sun 26/12/21	7 days		1	674 days	NA	NA					
		1 Mon 20/12/2	1Tue 28/12/2	1 Tue 28/12/21	1 day		0	549 days	NA	NA					
Submitting Application documents to the Employer for the application of the dumping	Tue 21/12/21	Fri 31/12/21	Wed 29/12/2	2´Sat 30/4/22	123 days	135	2	549 days	NA	NA					
permit of waste at the sea	Mon 20/12/21	1 Mon 20/12/21	Tue 7/12/21	Tue 7/12/21	1 day		0	563 days	NA	NA					
Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on 31/12/21)	Tue 21/12/21	Fri 31/12/21	Wed 8/12/21	Sat 16/4/22	130 days	137	2	563 days	NA	NA					
Obtaining all necessary permits, licenses, approvals and concents	Mon 20/12/21	1 Fri 31/12/21	Sun 17/4/22	Sat 30/4/22	14 days		2	549 days	NA	NA					
Collection and delivery of 666666 tonnes of Public Fill	Sat 1/1/22	Thu 31/3/22	Sun 1/5/22	Thu 30/6/22	61 days	139,138,		549 days		NA					
-	Fri 18/2/22				,			,	NA	NA					
					,										
						142			NA	NA					
Submiting Application documents to the Employer for the application of the dumping					,			,	NA	NA					
Obtaining the dumping permits from Ministry of Ecology and environment of the	Sat 19/2/22	Thu 31/3/22	Tue 1/3/22	Sat 16/4/22	47 days	144	2	26 days	NA	NA					
Obtaining all necessary permits, licenses, approvals and concents	Fri 18/3/22	Thu 31/3/22	Sun 17/4/22	Sat 30/4/22	14 days		0	12 days	NA	NA					
Collection and delivery of 666666 tonnes of Public Fill	Fri 1/4/22	Thu 30/6/22	Sun 1/5/22	Thu 30/6/22	61 days	146,145,	14	12 days	NA	NA					
3rd quarter of first year	Fri 20/5/22	Fri 30/9/22	Fri 20/5/22	Fri 30/9/22	134 days			12 days	NA	NA					
Submitting application documents to EPD for application of dumping permits	Fri 17/6/22	Fri 17/6/22	Fri 17/6/22	Fri 17/6/22	1 day		0	12 days	NA	NA					
Obtaining the dumping permit from EPD (assumed on 30/6/22)	Sat 18/6/22	Thu 30/6/22	Sat 18/6/22	Thu 30/6/22	13 days	149	2	12 days	NA	NA					
	g Fri 20/5/22	Fri 20/5/22	Fri 20/5/22	Fri 20/5/22	1 day		0	12 days	NA	NA					
	Sat 21/5/22	Thu 30/6/22	Sat 21/5/22	Thu 30/6/22	41 days	151	14	12 days	ΝΔ	ΝΔ					
People's Republic of China through the Employer					-										
							•								
-					,	150,153,			NA						
4th quarter of first year	Sat 20/8/22				,			12 days	NA	NA					
	Sat 17/9/22				,			12 days	NA	NA					
Obtaining the dumping permit from EPD (assumed on 30/9/22) Submiting Application documents to the Employer for the application of the dumping	Sun 18/9/22 Sat 20/8/22				-			12 days 12 days	NA	NA NA					
permit of waste at the sea					,			-				-1	•		
							,						▼	_	
	Ex	xternal Miles	tone	•	Ma	anual Sui	mmary	y Kollup	•	E	xternal Mil	lestone			
Milestone	In	nactive Miles	tone		Ma	anual Sui	mmary	у	•	Р	rogress			-	
Summary	- In	nactive Sumn	nary		Sta	art-only				D	eadline		$\hat{\nabla}$		
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	permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer Obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 666666 tonnes of Public Fill 3rd quarter of first year Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/6/22) Submitting Application documents to the Employer for the application of the dumping permit of waste at the sea Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer Obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 1666665 tonnes of Public Fill 4th quarter of first year Submitting application documents to EPD for application of dumping permits Obtaining all necessary permits, licenses, approvals and concents Collection and delivery of 1666665 tonnes of Public Fill 4th quarter of first year Submitting application documents to EPD for application of dumping permits Obtaining the dumping permit from EPD (assumed on 30/9/22) Submitting Application documents to the Employer for the application of the dumping permit of waste at the sea Programme Oct22 to Dec22 CV/2021/09 Task Sp	Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Obtaining the dumping permit from EPD (assumed on 31/3/22) Sat 19/3/22 Submitting Application documents to the Employer for the application of the dumping permits of waste at the sea Fri 18/2/22 Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer Sat 19/2/22 Obtaining all necessary permits, licenses, approvals and concents Fri 18/3/22 Collection and delivery of 666666 tonnes of Public Fill Fri 17/6/22 Submitting application documents to EPD for application of dumping permits Fri 17/6/22 Submitting application documents to the Employer Sat 19/2/22 Submitting Application documents to the Employer for the application of the dumping permit from EPD (assumed on 30/6/22) Sat 18/6/22 Submiting Application documents to the Employer Sat 21/5/22 Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer Sat 21/5/22 Obtaining and necessary permits, licenses, approvals and concents Fri 17/6/22 Collection and delivery of 1666665 tonnes of Public Fill Fri 17/6/22 Collection and delivery of 1666665 tonnes of Public Fill Fri 17/6/22 Submitting application documents to EPD for application of dumping p	Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Fri 18/3/22 Fri 18/3/22 Obtaining the dumping permit from EPD (assumed on 31/3/22) Sat 19/3/22 Thu 31/3/22 Submitting Application documents to the Employer for the application of the dumping permit of waste at the sea Fri 18/2/22 Fri 18/2/22 Fri 18/2/22 Obtaining the dumping permits from Ministry of Ecology and environment of the people's Republic of China through the Employer Sat 19/2/22 Thu 31/3/22 Collection and delivery of 666666 tonnes of Public Fill Fri 18/3/22 Fri 18/3/22 Fri 30/9/22 Submitting application documents to EPD for application of dumping permits Fri 17/6/22 Fri 17/6/22 Fri 20/5/22 Submitting Application documents to the Employer Fri 20/5/22 Fri 20/5/22 Fri 20/5/22 Fri 20/5/22 Obtaining the dumping permit from EPD (assumed on 30/6/22) Sat 18/6/22 Thu 30/6/22 Fri 17/6/22 Fri 17/6/22 Fri 17/6/22 Fri 17/6/22 Fri 10/6/22 Obtaining the dumping permits from Ministry of Ecology and environment of the people's Republic of China through the Employer Sat 20/6/22 Fri 17/6/22 Thu 30/6/22 C	Submitting application documents to EPD for application of dumping permitsFri 18/3/22Fri 18/3/22Fri 18/3/22Sat 12/3/22Obtaining the dumping permit from EPD (assumed on 31/3/22)Sat 19/3/22Thu 31/3/22Sat 19/3/22Fri 18/2/22Fri 18/2/22Fri 18/2/22Submiting Application documents to the Employer for the application of the dumping permit of waste at the seaFri 18/2/22Fri 18/2/22Thu 31/3/22Sub 17/22Tu 1/3/22Sub 17/22Sub 17/22Sub 17/22Sub 17/22Sub 17/22Sub 17/22Sub 17/22Sub 17/22Fri 20/5/22Fri 20/5/22Fri 20/5/22Fri 20/5/22Fri 20/5/22Fri 20/5/22Fri 20/5/22Fri 17/6/22Fri 17/6/22Fri 17/6/22Fri 17/6/22Fri 17/6/22Fri 17/6/22Fri 17/6/22Fri 20/5/22Fri 20/5/22	Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Fri 18/3/22 Sat 12/3/22 Sat 13/3/22 Sat 13/3	Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Fri 18/3/22 Sat 12/3/22 Sat 13/3/22 Fri 18/2/22 Sat 13/3/22 Sat 33/3/22 Sat 33/3/22 Sat 33/3/22 Sat 33/3/22 Sat 33/3/22 Sat 33/	Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Fri 18/3/22 Sat 12/3/22 Sat 12/3/22 Sat 12/3/22 Sat 12/3/22 Sat 12/3/22 Sat 13/3/22 Sat 13/3/3/22 Sat 13/3/22 Sat 13	Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Fri 18/3/22 Sat 12/3/22 Sat 12/3/22 Sat 12/3/22 Sat 12/3/22 Sat 12/3/22 Sat 30/4/22 Ad ays 142 2 Obtaining the dumping permits from EPD (assumed on 31/3/22) Sat 19/3/22 Fri 18/3/22 Fri 18/2/22 Fri 18/2/22	Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Fri 18/3/22 Sat 12/3/22 Sat 12/3/22 1 day 0 18 days Obtaining the dumping permit from EPD (assumed on 31/3/22) Sat 19/3/22 Thu 31/3/22 Sat 19/3/22 Sat 30/4/22 43 days 142 2 12 days Submitting Application documents to the Employer for the application of the dumping permits from Ministry of Ecology and environment of the Sat 19/2/22 Thu 31/3/22 Sat 19/3/22 Thu 31/3/22 Sat 16/4/22 47 days 144 2 26 days Obtaining the dumping permits from Ministry of Ecology and environment of the Sat 19/2/22 Thu 31/3/22 Sut 1/3/22 Sat 16/4/22 47 days 144 2 26 days Collection and delivery of 666666 tones of Public Fill Fri 18/3/22 Thu 31/3/22 Sut 17/3/22 Sat 18/6/22 Thu 30/6/22 Sat 18/6/22 Thu 30/6/22 14 days 0 12 days Submitting application documents to EPD for application of dumping permits Fri 17/6/22 Fri 17/6/22 Fri 30/9/22 Sat 18/6/22 Thu 30/6/22 Sat 18/6/22 Thu 30/6/22 13 days 14 12 days Submitting application documents to the Employer for the application of th	Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Fri 18/3/22 Sat 12/3/22 Sat 12/3/22 I day 0 18 days NA Obtaining the dumping permit from EPD (assumed on 31/3/22) Sat 19/3/22 Thu 31/3/22 Sat 19/3/22 Thu 31/3/22 Sat 19/3/22 Thu 31/3/22 Sat 19/3/22 Thu 31/3/22 Sat 19/3/22 Thu 31/3/22 Sat 19/3/22 Sat 19/3/22 Sat 19/3/22 Sat 19/3/22 Sat 19/3/22 Sat 19/3/22 Thu 31/3/22 Sat 19/3/22 Thu 31/3/22 Sat 19/3/22 Sat 19/3/22 <t< td=""><td>Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Fri 18/3/22 Sat 12/3/22 Sat 30/4/22 Sat 30/4/22 Sat 30/4/22 Sat 30/4/22 Sat 13/3/22 Fri 18/3/22 Thu 31/3/22 Sat 16/4/22 47 days 14 2 2 days NA NA Obtaining the dumping permits from Ministry of Ecology and environment of the Sat 19/2/22 Fri 130/9/22 Sat 13/3/22 Sat 13/3/22 Sat 13/3/22 Sat 13/3/22 Sat 13/3/22 Sat 16/4/22 Fri 30/9/22 Sat 16/4/22 Fri 30/9/22 Fri 30/9/22 Fri 30/9/22 Fri 30/9/22 Sat 16/6/22 Fri 30/9/22 Fri 30/9/22 Sat 16/6/22 Fri 30/9/22 Sat 16/6/22 Fri 30/9/22 Sat 16/6/22 Fri 30/9/22 Sat 16/6/2</td><td>Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Sat 12/3/22 Tut 13/3/22 Sat 12/3/22 Tut 13/3/22 Sat 13/3</td><td>Submitting application documents to EPD for application of dumping permits Fri 18/3/22 Sat 12/3/22 Sat 13/3/22 Sat 13/3</td><td>Submitting application odumping permits Fri 18/3/22 Fri 18/3/22 Sat 12/3/22 Sat 13/2/2</td><td>Submitting application documents to EPD for application of dumping permits Fii 18/3/22 Fii 18/3/22 Sat 19/3/22 Fii 18/3/22 Fii 13/3/22 Sat 19/3/22 Sat 30/4/22 Fii 3/3/3/2 Sat 30/4</td></t<>	Submitting application documents to EPD for application 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19/3/22 Fii 18/3/22 Fii 13/3/22 Sat 19/3/22 Sat 30/4/22 Fii 3/3/3/2 Sat 30/4

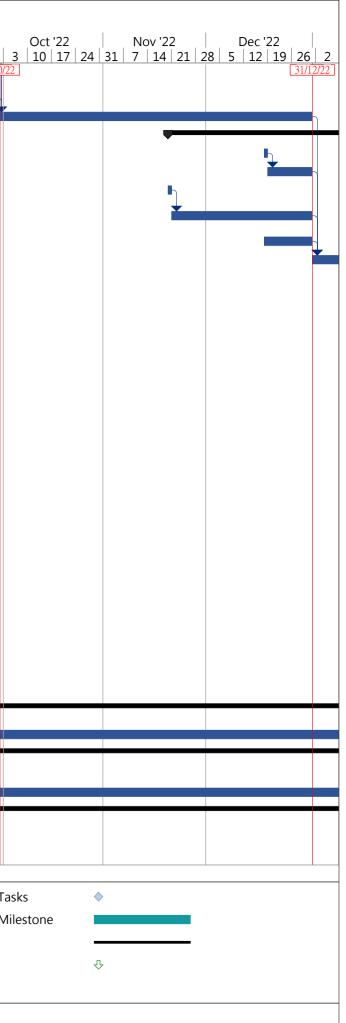
ID	•	Task Name		Baseline Start	Baseline Finish	Start	Finish	Duration	Predece		Slack	Actual Start	Actual Finish		,
159	0	Obtaining the dumping permits from Mir	histry of Ecology and environment of the	Sun 21/8/22	Fri 30/9/22	Sun 21/8/22	Fri 30/9/22	41 days	158	14	12 days	NA	NA		<u>0/22</u>
		People's Republic of China through the E	mployer (assumed on 30/9/22)												Ī
160		Obtaining all necessary permits, licenses		Sat 17/9/22	Fri 30/9/22			14 days			12 days	NA	NA		
161		Collection and delivery of 1 million tonnes		Sat 1/10/22			Sat 31/12/22		160,154,	14	12 days	NA	NA		
162		1st quarter of second year) for application of dumping parmits		Fri 31/3/23			132 days		0	12 days	NA	NA		
163		Submitting application documents to EPD					2 Sun 18/12/22	,		0	12 days	NA	NA		
164		Obtaining the dumping permit from EPD	, ,				2 Sat 31/12/22	,			12 days	NA	NA		1
165		permit of waste at the sea	Employer for the application of the dumping	Sun 20/11/22	20/11/22	Sun 20/11/22	Sun 20/11/22	Tuay		0	12 days	NA	NA		
166		Obtaining the dumping permits from Mir People's Republic of China through the E	mployer		Sat 31/12/22	21/11/22	Sat 31/12/22	41 days		14	12 days	NA	NA		
167		Obtaining all necessary permits, licenses	••				2 Sat 31/12/22	14 days		2	12 days	NA	NA		
168		Collection and delivery of 1 million tonne	s of Public Fill	Sun 1/1/23	Fri 31/3/23	Sun 1/1/23	Fri 31/3/23	90 days	161,167,	14	12 days	NA	NA		
169		2nd quarter of second year		Sat 18/2/23	Fri 30/6/23			133 days			12 days	NA	NA		
170		Submitting application documents to EPD		Sat 18/3/23	Sat 18/3/23			1 day		0	12 days	NA	NA		
171		Obtaining the dumping permit from EPD	, ,	Sun 19/3/23		Sun 19/3/23		13 days	170	2	12 days	NA	NA		
172		permit of waste at the sea	Employer for the application of the dumping		Sat 18/2/23			1 day		0	12 days	NA	NA		
173		Obtaining the dumping permits from Mir People's Republic of China through the E		Sun 19/2/23	Fri 31/3/23	Sun 19/2/23	Fri 31/3/23	41 days	172	14	12 days	NA	NA		
174		Obtaining all necessary permits, licenses		Sat 18/3/23	Fri 31/3/23	Sat 18/3/23	Fri 31/3/23	14 days		2	12 days	NA	NA		
175		Collection and delivery of 1 million tonnes	s of Public Fill	Sat 1/4/23	Fri 30/6/23	Sat 1/4/23	Fri 30/6/23	91 days	168,174,	14	12 days	NA	NA		
176		3rd quarter of second year		Sat 20/5/23	Sat 30/9/23	Sat 20/5/23	Sat 30/9/23	134 days			12 days	NA	NA		
177		Submitting application documents to EPD	D for application of dumping permits	Sat 17/6/23	Sat 17/6/23	Sat 17/6/23	Sat 17/6/23	1 day		0	12 days	NA	NA		
178		Obtaining the dumping permit from EPD	(assumed on 30/6/23)	Sun 18/6/23	Fri 30/6/23	Sun 18/6/23	Fri 30/6/23	13 days	177	2	12 days	NA	NA		
179			Employer for the application of the dumping	Sat 20/5/23	Sat 20/5/23	Sat 20/5/23	Sat 20/5/23	1 day		0	12 days	NA	NA		1
180		permit of waste at the sea Obtaining the dumping permits from Mir People's Republic of China through the E		Sun 21/5/23	Fri 30/6/23	Sun 21/5/23	Fri 30/6/23	41 days	179	14	12 days	NA	NA		
181		Obtaining all necessary permits, licenses		Sat 17/6/23	Fri 30/6/23	Sat 17/6/23	Fri 30/6/23	14 days		2	12 days	NA	NA		
182		Collection and delivery of 1million tonnes	s of Public Fill	Sat 1/7/23	Sat 30/9/23	Sat 1/7/23	Sat 30/9/23	92 days	181,175,	14	12 days	NA	NA		
183		4th quarter of second year		Sun 20/8/23	Sun 31/12/2	Sun 20/8/23	Wed 20/12/23	123 days			11 days	NA	NA		
184		Submitting application documents to EPD	D for application of dumping permits	Sun 17/9/23	Sun 17/9/23	Sun 17/9/23	Sun 17/9/23	1 day		0	12 days	NA	NA		
185		Obtaining the dumping permit from EPD	(assumed on 30/9/23)	Mon 18/9/23	Sat 30/9/23	Mon 18/9/23	Sat 30/9/23	13 days	184	2	12 days	NA	NA		
186		Submiting Application documents to the E permit of waste at the sea	Employer for the application of the dumping	Sun 20/8/23	Sun 20/8/23	Sun 20/8/23	Sun 20/8/23	1 day		0	12 days	NA	NA		
187		Obtaining the dumping permits from Mir People's Republic of China through the E		Mon 21/8/23	Sat 30/9/23	Mon 21/8/23	Sat 30/9/23	41 days	186	14	12 days	NA	NA		
188		Obtaining all necessary permits, licenses		Sun 17/9/23	Sat 30/9/23	Sun 17/9/23	Sat 30/9/23	14 days		2	12 days	NA	NA		
189		Collection and delivery of 1 million tonne	s of Public Fill	Sun 1/10/23	Sun 31/12/23	8 Mon 2/10/23	Wed 20/12/23	80 days	182,187,	14	11 days	NA	NA		
190		Removal, excavation and deposition of stoch the Designated Reclamation Sites in the Mai		Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	6SS		0 days	NA	NA		-
191		Removal, excavation and deposition of stock		Sat 1/1/22	Sun 31/12/23	8 Sat 1/1/22	Sun 31/12/23	730 days		14	0 days	NA	NA		
192		Operation and maintenance of the existing n association with the existing berthing facility		Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	6SS		0 days	Sat 1/1/22	NA		-
100		Reclamation Sites in the Mainland	ovigation abannol and turning basing	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	720 dava		14	0 days	Sat 1/1/22	NA		
193	<u>1</u>	Operation and maintenance of the existing n Design, construction, operation and mainter						-				NA NA	NA		
194		turning basins in association with the new b Designated Reclamation Sites in the Mainlar	erthing facility at Zone B of the	Sat 12/12/09	Sat 12/12/09	110/0/22	Sun 31/12/23	564 days			0 days	NA	NA		
195		Obtaining the dumping permits from Ministr People's Republic of China through the Emp	ry of Ecology and environment of the	Fri 31/12/21	Mon 31/1/22	Thu 16/6/22	Thu 16/6/22	1 day		0	2 days	NA	NA		
			Task		ternal Tasks				ration-o	,				xternal	
Declari	0		Split	Ех	ternal Miles	tone	•	Ma	inual Sui	mmar	y Rollup	•	E	xternal	Mile
Project: Date: [1		h rolling Programme Oct22 to Dec22 CV/2021/09 22]	Milestone \blacklozenge		active Milest				inual Sui	nmar	у	•		rogress	
			Summary	■ In	active Summ	nary		Sta	rt-only					eadline	ŕ

Project Summary

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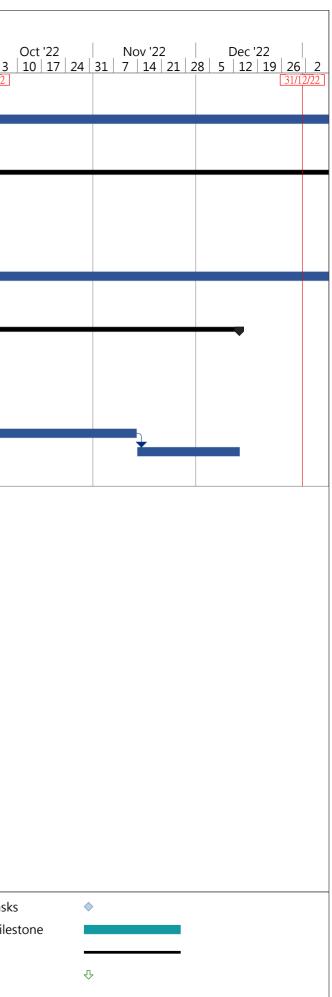
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Manual Task

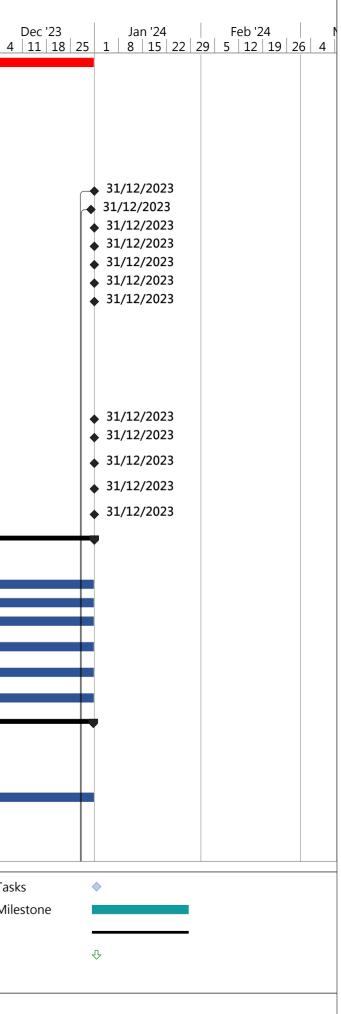


ID		Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration			Slack	Actual Start	Actual Finish	
	0								anow				26 3
196		Preparation of design submission	Sat 1/1/22	Sun 30/1/22	Fri 17/6/22	Sat 16/7/22	30 days	195	7	2 days	NA	NA	1/10/22
197		Obtaining all necessary design approvals and concents	Mon 31/1/22	Tue 1/3/22	Sun 17/7/22	Mon 15/8/22	30 days	196	7	2 days	NA	NA	
198		Construction of the new navigation channel and turning basins	Wed 2/3/22	Fri 29/7/22	Tue 16/8/22	Thu 12/1/23	150 days	197	14	2 days	NA	NA	
199		Obtaining the construction completion certificate	Sat 30/7/22	Sun 28/8/22	Fri 13/1/23	Sat 11/2/23	30 days	198	7	2 days	NA	NA	
200		Operation and maintenance of navigation channel and turning basins	Mon 29/8/22	Sun 31/12/23	Tue 14/2/23	Sun 31/12/23	321 days	199	14	0 days	NA	NA	
201		Design, construction, operation and maintenance of new berthing facilities at Zone B of the Designated Reclamation Sites in the Mainland (subject to Project's Manager's instruction)	Fri 31/12/21	Sun 31/12/23	Thu 16/6/22	Sun 31/12/23	564 days			0 days	NA	NA	
202		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone A & B (assumed on	Fri 31/12/21	Fri 31/12/21	Thu 16/6/22	Thu 16/6/22	1 day			0 days	NA	NA	
203		Preparation of design submission	Sat 1/1/22	Sun 30/1/22	Fri 17/6/22	Sat 16/7/22	30 days	202	7	0 days	NA	NA	
204		Obtaining all necessary design approvals and concents	Mon 31/1/22	Tue 1/3/22	Sun 17/7/22	Mon 15/8/22	30 days	203	7	0 days	NA	NA	
205		Construction of the berthing facilities	Wed 2/3/22	Sun 28/8/22	Tue 16/8/22	Sat 11/2/23	180 days	204	14	0 days	NA	NA	
206		Obtaining the construction completion certificate	Mon 29/8/22	Tue 27/9/22	Sun 12/2/23	Mon 13/3/23	30 days	205	7	0 days	NA	NA	
207		Operation and maintenance of new berthing facilities	Wed 28/9/22	Sun 31/12/23	Tue 14/3/23	Sun 31/12/23	293 days	206	14	0 days	NA	NA	
208		Design and construction of seawalls (approximate 200m) in association with new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland	Fri 10/6/22	Sat 4/2/23	Thu 16/6/22	Tue 13/12/22	181 days			383 days	NA	NA	
209		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone A & B	Sat 1/1/22	Sat 1/1/22	Thu 16/6/22	Thu 16/6/22	1 day		0	383 days	NA	NA	
210		Preparation of design submission (PMI no18)	Sun 2/1/22	Mon 31/1/22	Fri 17/6/22	Sat 16/7/22	30 days	209	7	383 days	NA	NA	
211		Obtaining all necessary design approvals and concents	Tue 1/2/22	Wed 2/3/22	Sun 17/7/22	Mon 15/8/22	30 days	210	7	383 days	NA	NA	
212		Construction of seawalls (subject to Project's Manager's instruction)	Thu 3/3/22	Tue 31/5/22	Tue 16/8/22	Sun 13/11/22	90 days	211	14	383 days	NA	NA	
213		Obtaining the construction completion certificate (subject to Project's Manager's instruction)	Wed 1/6/22	Thu 30/6/22	Mon 14/11/22	Tue 13/12/22	30 days	212	7	383 days	NA	NA	
214		Planned Completion Date (Section 3)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			1 day	NA	NA	

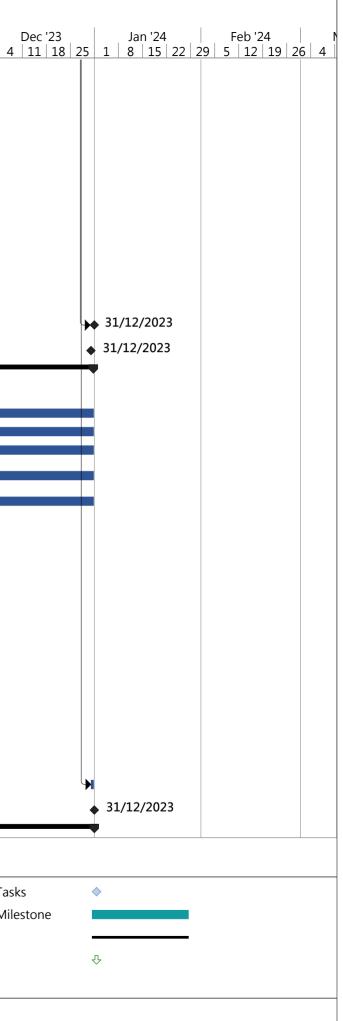
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	Split		External Milestone	•	Manual Summary Rollup 🔶		External Mile
Project: 3month rolling Programme Oct22 to Dec22 CV/2021/09 Date: [1/10/2022]	Milestone	•	Inactive Milestone		Manual Summary	•	Progress
	Summary		Inactive Summary		Start-only		Deadline
	Project Summary	▼	Manual Task	\diamond	Finish-only		
				Page 6			

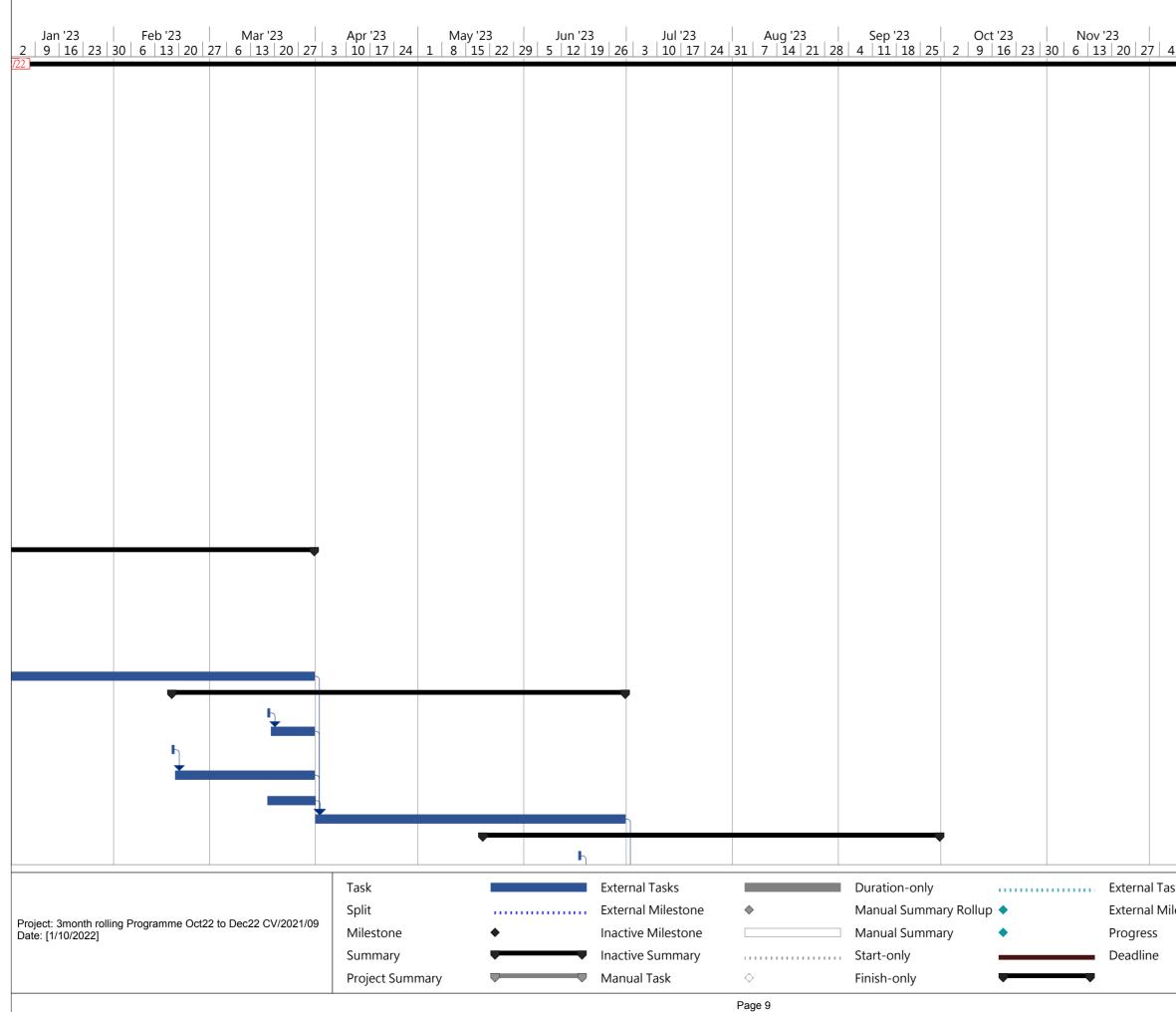


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Project: 3month roll Date: [1/10/2022]	ing Programme Oct2	22 to Dec22 CV/2021/0	Task Split 9 Milestone Summary Project Sumi	*		External Tasl External Mile Inactive Mile Inactive Sum Manual Task	estone estone nmary	 ♦ ♦ Page 7 	Duration-only Manual Summa Manual Summa Start-only Finish-only	ary Rollup 🔶	External Ta External M Progress Deadline

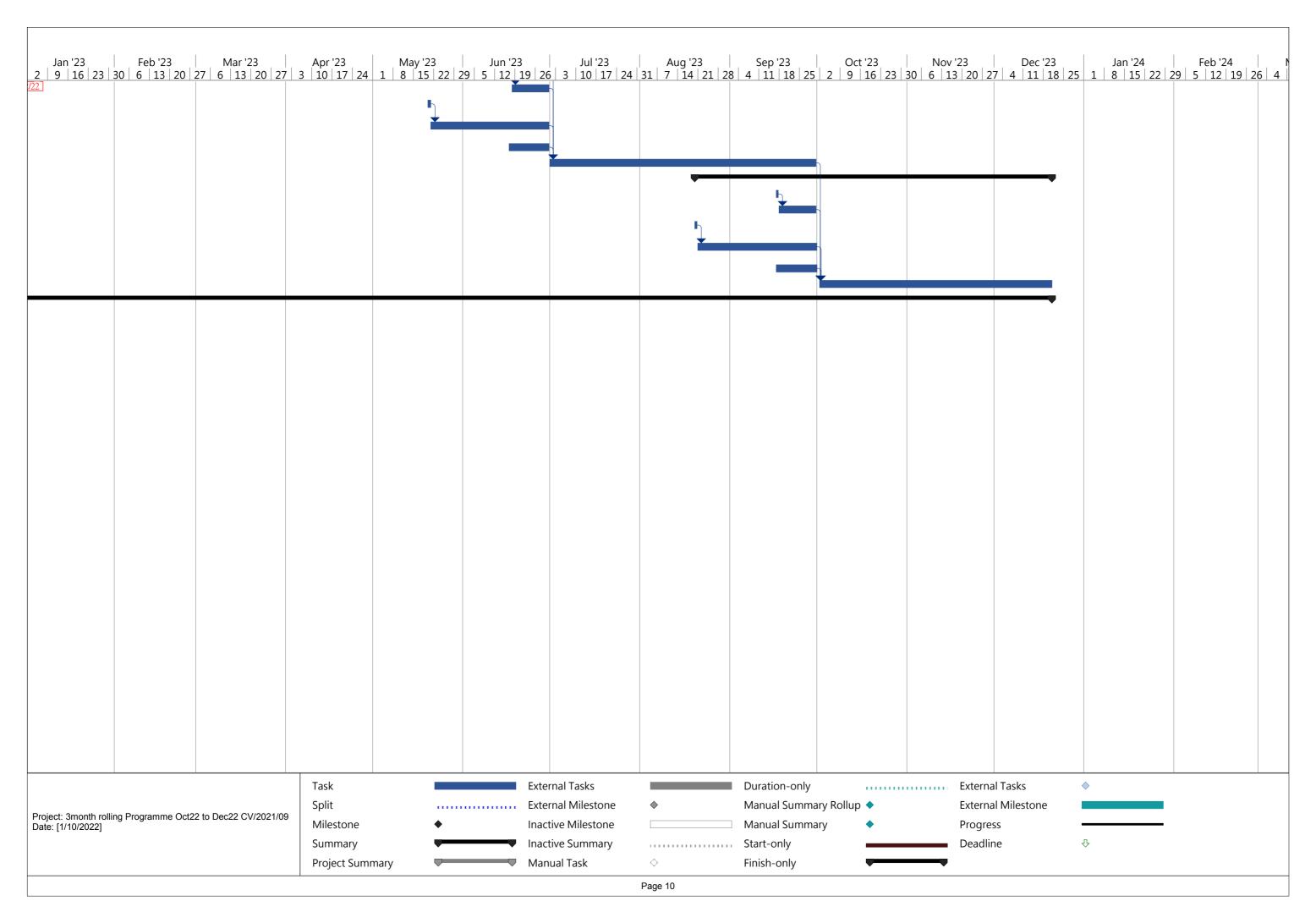


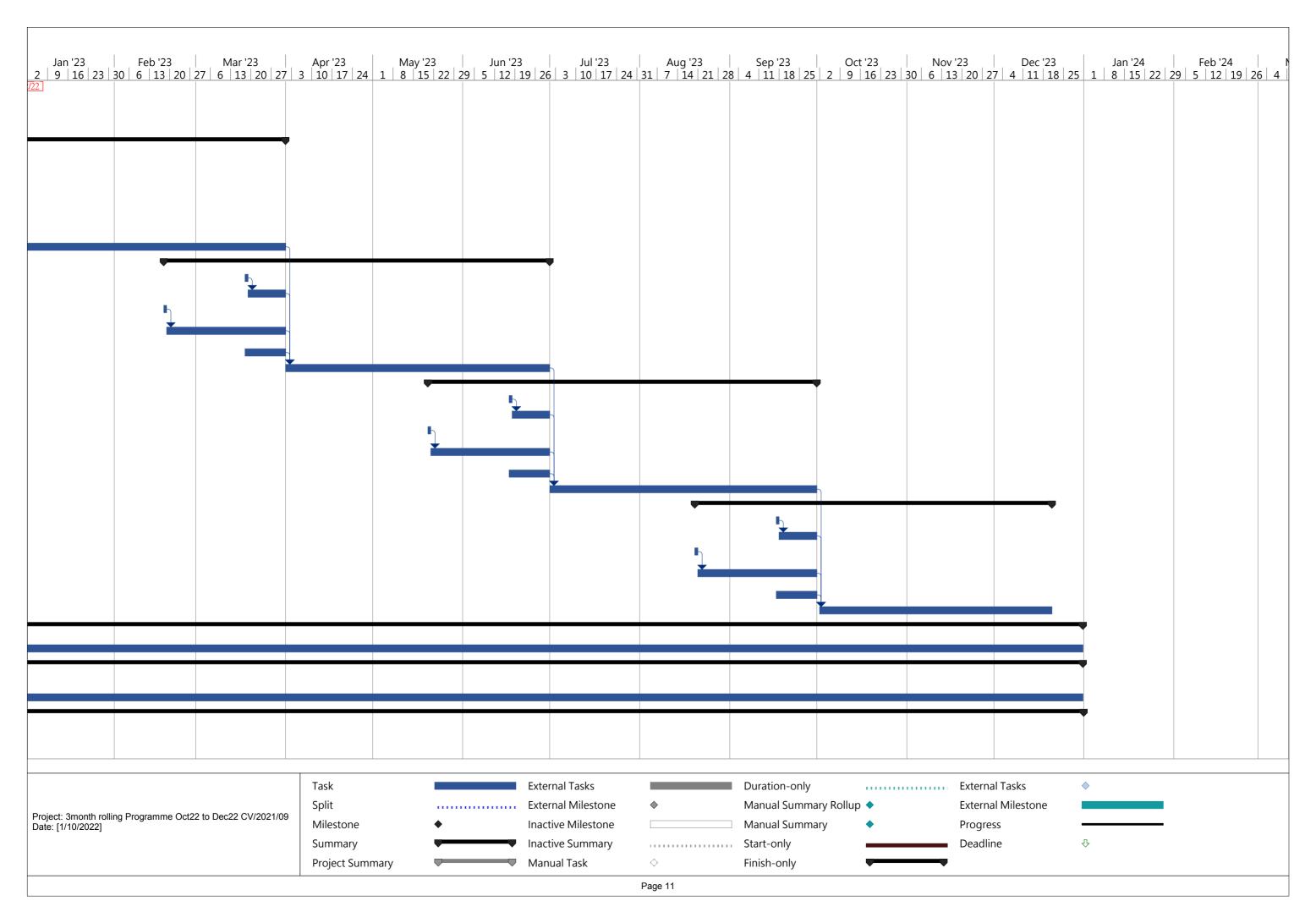
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Project: 3month roll Date: [1/10/2022]	ing Programme Oct2	22 to Dec22 CV/2021/0		*	Ina	ternal Milestone active Milestone	◆	Manual Summa Manual Summa		External M Progress
			Summary Project Sumr	mary		active Summary anual Task	\diamond	Start-only Finish-only		Deadline
							Page 8			



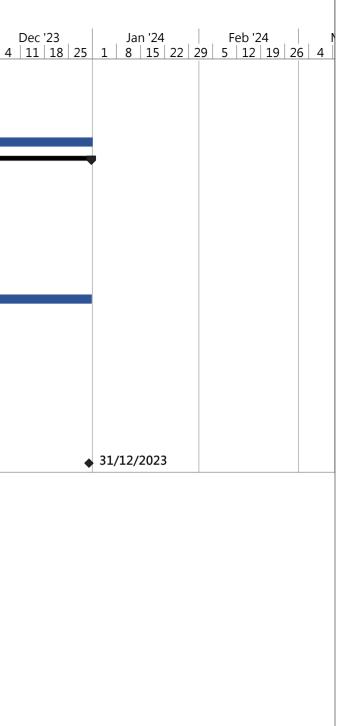


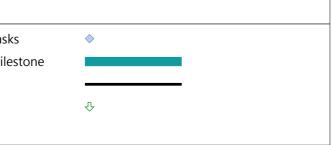
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Project: 3month roll Date: [1/10/2022]			Summary Project Sumr			active Summary anual Task	\diamond	Start-only Finish-only			Deadline
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Draiget: 2month roll	ling Programme Oct22	to Dec22 CV/2021/09	Task Split		Ex	ternal Tasks ternal Milestone	*	Duration-only Manual Summar		I	External Tasks External Miles
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Appendix H

Weekly ET's Site Inspection Record

CEDD Contract No.: CV/2021/09

Handling of Surplus Public Fill (2022-2023) - Tuen Mun Area 38 Fill Bank



Inspection Date	: J. 10.72
Time	: 10:03
Weather	: Sunny Fine Cloudy / Overcast / Drizzle / Rain / Storm / Hazy : Calm / Light / Breeze / Strong
Temperature	. 3 2
Humidity	: High Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	M	A	
Name:	(++6	Silvillen	chan they Law
Title	Alow	Env il	Technician



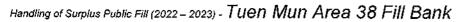
Environmental Checklist	Ś	menta	*	Remark
	Yes	No	N/A	
Fugitive Dust Emission				
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	Ą			
 Water sprays shall be provided and used to dampen materials. 	4			
 All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition. 	4	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. 	V	5		
 Unpaved areas should be watered regularly to avoid dust generation. 	1			
 The designated site main haul road shall be paved or regular watering. 	\checkmark			
 The haul road inside the site and public road around the site entrance should be kept clean and free from dust. 	V			
 Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. 	~			
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	V			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	1			
 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	1	1	
Open burning should be prohibited.	1			
 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). 	4			
Noise Impact				
 The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. 	4	ļ		
 The constructions works should be scheduled to minimize noise nuisance. 	1			
 Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	1		:	
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	V			
Air compressors and hand held breakers should have noise labels.	1			
Compressors and generators should operate with door closed.	1			
 Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	1			
 Noisy equipment and mobile plant shall always be site away from NSRs. 	V			



Environmental Checklist	S	tages	*	Remark
	Yes	No	N/A	
Water Quality				
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	V	·		and and the second s
 The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	\checkmark			
 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			
 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. 	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. 	V			
 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. 	7			
 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. 	V			
 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. 	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. 	V			
 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		ement Stages		Remark
	Yes		N/A	
Waste Management				
Construction Waste Management				
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	4			
Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	1	-		
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 windble litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. 	wn √		1	
 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and t proper disposal. 	heir √			
 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 fi minimise the quantity of waste to be disposed of to landfill. 	ll to √			
 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 sys should be included as one of the contractual requirements. 	tem √		1	
Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	4			
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 Disp Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be obser and complied with for control of chemical wastes. 	osal √ ved			
 After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on Packaging, Labelling and Storage of Chemical Wastes. 	the √			
 Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licen facility in accordance with the Chemical Waste (General) Regulation. 	sed √			
 Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility. 	7			
Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	4			
 The designated chemical waste storage area should only be used for storing chemical wastes. 	√			
The set-up of chemical waste storage area should			Na S	
 Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. 	4			
 Be enclosed on at least 3 sides and securely closed. 	√			
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of chemical waste stored in that area, whichever is the greatest. 				
Have adequate ventilation.	1			
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	<u>۲</u>			
Be arranged so that incompatible materials are adequately separated.	1			





Environmental Checklist		menta tages		Remark
	Yes		N/A	1
 Warning panels should be displayed at the waste storage area. 	V			
 Waste storage area should be cleaned and maintained regularly. 	V			· · · · ·
 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			
Good 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. 	V			
 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. 	\checkmark			
The Environmental Permit should be displaced conspicuously on site.	7			
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. 	1			· · · · · · · · · · · · · · · · · · ·
 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. 	V			
 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. 	7			
 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			



Summary of the Weekly Site Inspection:

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 w	05 October 2022

Handling of Surplus Public Fill (2022-2023) - Tuen Mun Area 38 Fill Bank



Inspection Date	: 13 - 10 - 22
Time	: 10:00
Weather	: Sunny Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind	: Calm / Light / Breeze / Strong
Temperature	: 28
Humidity	: High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	àG	i h	
Name:	K. C. Yung	Philip Ho	chan Hon Can
Title	10~	S.M.	Technician



Environmental Checklist		tages	*	Remark	
	Yes	No	N/A		
Fugitive Dust Emission		na da da Kata da			
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 		4		liem 1	
 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. 	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. 	V				
 Unpaved areas should be watered regularly to avoid dust generation. 	4				
The designated site main haul road shall be paved or regular watering.	4		-		
 The haul road inside the site and public road around the site entrance should be kept clean and free from dust. 	4				
 Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. 	1				
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	Å				
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	V				
 Vehicle and equipment should be switched off while not in use. 	۲.				
 All plant and equipment should be well maintained e.g. without black smoke emission. 	V				
Open burning should be prohibited.	7				
 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). 	1				
Noise Impact	100 100				
The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	V				
 The constructions works should be scheduled to minimize noise nuisance. 	1				
 Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	4				
Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	4				
Air compressors and hand held breakers should have noise labels.	1				
Compressors and generators should operate with door closed.	4				
Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	<u>↓</u> √				
 Noisy equipment and mobile plant shall always be site away from NSRs. 	1				



Environmental Checklist		ment		Remark
			N/A	1
Water Quality				
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	√	(2 / 2898	899 m	
 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. 	V		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			
 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. 	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.	V			
 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. 	V			
 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. 	7			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	4			
 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			e	
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. 	V			
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. 	7			
Lighting shall be set to minimise night-time glare.	1			

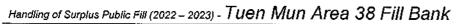
CEDD Contract No.: CV/2021/09

Handling of Surplus Public Fill (2022 – 2023) - Tuen Mun Area 38 Fill Bank



Environmental Checklist			ation	Remark
			N/A	1
Waste Management				
Construction Waste Management				
 Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. 	1			
 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	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. 	V			
 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. 	7			
 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. 	V			
 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. 	4			
 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 	V			
Chemical Waste Management	A the set	i Ésoa	. j.	
 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. 	V			
 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. 	V			
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		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	· · ·			
 Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. 	\ √			
 Be enclosed on at least 3 sides and securely closed. 	7			
 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. 	4			
Have adequate ventilation.	1			
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	1			
 Be arranged so that incompatible materials are adequately separated. 	1			

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Environmental Checklist		ementa		Remark
	Yes	No	N/A	1
 Warning panels should be displayed at the waste storage area. 	√			
 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. 	√			· · · · · · · · · · · · · · · · · · ·
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. 	V			<u> </u>
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	V			
Good Site Practices	ulur A			
 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. 	V	:		
 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. 	V			
The Environmental Permit should be displaced conspicuously on site.	1	<u> </u>		
 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. 	V			
 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. 	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. 	7			
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			



Summary of the Weekly Site Inspection:

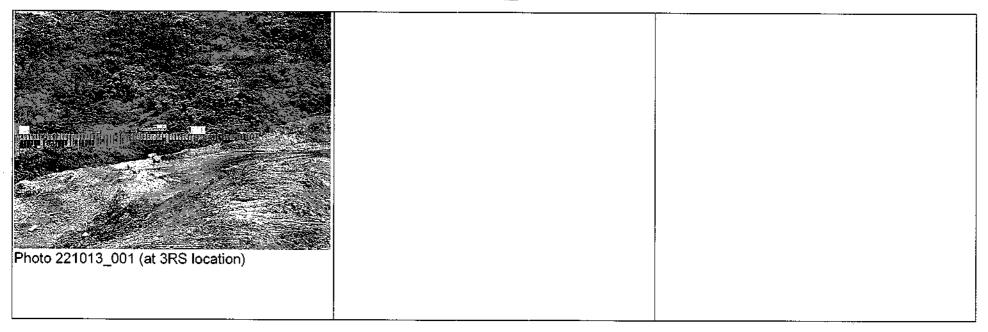
Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
01	Dry soil surface was observed at 3RS location.	Provide water spraying to avoid dust generation	221013_001	Yes	20-10-2022

Remark

	Name	Title	Signature	Date
Checked by	June Lau	ET Representative		13 October 2022
L				



Photo





Inspection Date : 10/10/22Time : 10=00Weather : Sunny / Gine Cloudy / Overcast / Drizzle / Rain / Storm / Hazy Wind : Calm / Gint / Breeze / Strong Temperature : 22° (

Humidity : High / Moderate / www

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:			
		M	Mak
Name:	C.K.Ho	philip Ito	Mak Kei Wai
Title	Alow	SM	ET



Environmental Checklist			ation *	Remark
Fugitive Dust Emission	a series and a series of the s			
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	1			
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. 	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			
 Unpaved areas should be watered regularly to avoid dust generation. 	7			
The designated site main haul road shall be paved or regular watering.	V			
 The haul road inside the site and public road around the site entrance should be kept clean and free from dust. 	V			
 Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. 	V			
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	1		1	
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	V			
 Vehicle and equipment should be switched off while not in use. 	4			
Ali plant and equipment should be well maintained e.g. without black smoke emission.	1			
Open burning should be prohibited.	1			
 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). 	V			
Noise Impact				
The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	V			
 The constructions works should be scheduled to minimize noise nuisance. 	V			
 Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	1			
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	1			
Air compressors and hand held breakers should have noise labels.	V .			
Compressors and generators should operate with door closed.	V			
 Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	V			
 Noisy equipment and mobile plant shall always be site away from NSRs. 	1			



Environmental Checklist			ation	Remark	
	Yes	No	N/A	1	
Water Quality					
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	V				
 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				
 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. 	4		<u> </u>		
 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. 	4				
 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. 	4			-	
 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. 	4				
 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			-	
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 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. 	4				
 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. 	√	ĺ			
Landscape and Visual			er Hesse a		
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. 	\checkmark				
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. 	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. 	V				
 Lighting shall be set to minimise night-time glare. 	V				



Environmental Checklist			Implementation Stages*		Remark
			No		
W	aste Management				
Co	Instruction Waste Management			دينې رورې د	
•	Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	4			
	Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	√	<u> </u>		
•	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.	4			
•	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.	V	Î		-
•	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.	Ą			
•	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	4			
Cł	nemical 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			
•	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	ļ		
•	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			
•	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.	4			
•	The set-up of chemical waste storage area should	, î î î î î			
	 Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. 	A			
	Be enclosed on at least 3 sides and securely closed.	1			
	 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. 	4			
	Have adequate ventilation.	1			
	Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	~ v			
	 Be arranged so that incompatible materials are adequately separated. 	\checkmark			



Handling of Surplus Public Fill (2022 – 2023) - Tuen Mun Area 38 Fill Bank

	Environmental Checklist			ation *	Remark	
<u> </u>		Yes	No	N/A	-	
=	Warning panels should be displayed at the waste storage area.	1				
	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.	1	-			
•	All generators, fuel and oil storage should be within bundle areas.	1				
•	Oil leakage from machinery, vehicle and plant should be prevented.	1	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.	4				
•	The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	1				
Go	od Site Practices					
4	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.	V				
•	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.	4				
•	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				
E	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.	\checkmark				
•	Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	V				
*	To encourage collection of aluminium cans by individual collectors.	1	<u> </u>			
Ŧ	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.	1				



Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
01	Followed up Item 1 on 13/10/2022, water spraying was provided.		221020_001	No	

Remark

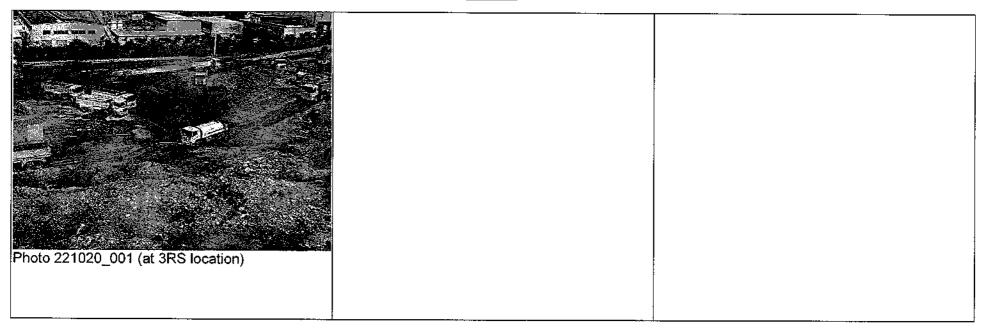
Remark		
	 	 /

	Name	Title	Signature	Date
Checked by	June Lau	ET Representative		20 October 2022
			- pr	
			(



<u>Photo</u>

.



Handling of Surplus Public Fill (2022-2023) - Tuen Mun Area 38 Fill Bank



Inspection Date	:	25-10-22
Time	:	10:00
Weather Wind		Sunny / Eine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy Calm / Light / Breeze / Strong
Temperature Humidity	:	High /Moderate / Low

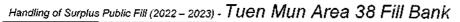
Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	X	dz.	Zich
Name:	CK+6	Stavies Cfrin	chan Hor Can
Title	ALOW	SLA.	Technician



Handling of Surplus Public Fill (2022 – 2023) - Tuen Mun Area 38 Fill Bank

Environmental Checklist		Implementation Stages*			Remark
		Yes	No	N/A	
Fugitive Dust Emissi	ion			**	
 Dust control / mitigat 	tion measures shall be provided to prevent dust nuisance.	V		1	
 Water sprays shail b 	be provided and used to dampen materials.	1			
 All stockpile of aggre 	egate or spoil should be enclosed or covered and water applied in dry or windy condition.	V			
tail boards. Material covered by a clean t	•	1			
 Unpaved areas should 	uld be watered regularly to avoid dust generation.	1			
The designated site	main haul road shall be paved or regular watering.	4			
The haul road inside	e the site and public road around the site entrance should be kept clean and free from dust.	V			
 Wheel washing facili 	ities including high-pressure water jet shall be provided at the entrance of work site.	4			······································
 Every vehicle shall b 	be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	1			
The temporary slope	e surfaces shall be covered with impermeable sheet or sprayed with water.	1		1	
Vehicle and equipme	ent should be switched off while not in use.	1			
 All plant and equipm 	aent should be well maintained e.g. without black smoke emission.	1			
 Open burning should 	d be prohibited.	1			
 Approval or exemptive vehicles at a consp Cap.311). 	ion Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road occuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO	1			
Noise Impact					
The approved metho	od of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	1			
The constructions w	vorks should be scheduled to minimize noise nuisance.	V			
 Only well maintained 	d plant should be operated on-site and plant should be serviced regularly during the construction works.	V			
Powered mechanica	al equipment (PME) should be covered or shielded by appropriate acoustic materials.	V			
 Air compressors and 	d hand held breakers should have noise labels.	\checkmark			
	enerators should operate with door closed.	V			
 Machines and plants 	s that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	1			
 Noisy equipment an 	nd mobile plant shall always be site away from NSRs.	1			

CEDD Contract No.: CV/2021/09

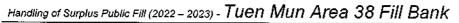




Environmental Checklist		ement stages		Remark
	Yes		N/A	-
Water Quality				
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	V	1		
 The storm water intercepting system shall be effective to 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			
 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. 	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. 	4			
 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. 	V			
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. 	√			
 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.	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. 	√‴			
Landscape and Visual				
 The maximum stockpilling 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. 	7			
 Lighting shall be set to minimise night-time glare. 	1			



Environmental Checklist		ement tages		Remark		
	Yes	No	N/A	1		
Waste Management						
Construction Waste Management						
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	1					
 Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. 	1		1			
 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. 	1	-				
 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. 	V					
Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	1					
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					
 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	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. 	V					
 Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility. 	1					
 Chemical wastes including waste oil should be stored property 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						
 Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. 	1					
 Be enclosed on at least 3 sides and securely closed. 	7					
 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. 	V					
Have adequate ventilation.	1					
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	1					
 Be arranged so that incompatible materials are adequately separated. 	4					





Environmental Checklist	Implement 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.	1			
 Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste. 	√			
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. 	4			· · · · · · · · · · · · · · · · · · ·
Good 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. 	1			Construction of the second
 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. 	7			
 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.	V			
 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.	V			
 All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). 	$\overline{\mathbf{A}}$			
 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. 	V			
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. 	V			
 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. 	Y			



Summary of the Weekly Site Inspection:

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

Remark

	Name	Title	Signature	1	Date
Checked by	June Lau	ET Representative		w	25 October 2022
			, ,	J	



Appendix I

Implementation Schedule of Mitigation Measures



Environmental Mitigation Implementation Schedule

	Location		Implementa	tion Status	
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
Air Quality					
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	All areas				
 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	\checkmark			
 Unpaved areas should be watered regularly to avoid dust generation. 	Site Egress				
 The designated site main haul road shall be paved or regular watering. 	All haul roads				
The public road around the site entrance should be kept clean and free from dust.	All areas				
 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	\checkmark			
 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				
 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				
 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). 	All areas				
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	\checkmark			
Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	All areas				
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	All areas				
 Air compressors and hand held breakers should have noise labels. 	All areas				
 Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	All areas				
 Noisy equipment and mobile plant shall always be site away from NSRs. 	All areas				



	Location	Implementati	on Status		
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
Water Quality					
 The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained. 	All areas	\checkmark			
 Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels. 	All areas	\checkmark			
 The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	All areas	\checkmark			
 The material shall be properly covered to prevent washed away especially before rainstorm. 	All areas	\checkmark			
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	All areas				
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	Temporary Slopes	\checkmark			
 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	\checkmark			
 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. 	Wheel Washing facility	\checkmark			
 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	\checkmark			
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. 	Site Office	\checkmark			
 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	\checkmark			
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	All areas	\checkmark			
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	Along the seafront	\checkmark			
 A waste collection vessel shall be deployed to remove floating debris. 	Along the seafront	\checkmark			
Landscape and Visual					
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	All areas				
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	Completed slopes	\checkmark			
• 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	\checkmark			
• 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	\checkmark			
Lighting shall be set to minimise night-time glare.	All areas	\checkmark			
Waste Management					
Construction Waste Management					
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	All areas	\checkmark			



		Location	Implementati	on Status		
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
•	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	\checkmark			
•	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	V			
•	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	\checkmark			
-	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	All areas				
С	hemical 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	\checkmark			
•	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	\checkmark			
•	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	\checkmark			
•	Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	Waste Storage Area	\checkmark			
•	Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	Waste Storage Area	\checkmark			
•	The designated chemical waste storage area should only be used for storing chemical wastes.	Waste Storage Area	\checkmark			
Tł	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	\checkmark			
•	Be enclosed on at least 3 sides and securely closed.	Waste Storage Area	\checkmark			
•	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	\checkmark			
•	Have adequate ventilation.	Waste Storage Area	\checkmark			
•	Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	Waste Storage Area	\checkmark			
•	Be arranged so that incompatible materials are adequately separated.	Waste Storage Area	\checkmark			
•	Warning panels should be displayed at the waste storage area.	Waste Storage Area	\checkmark			



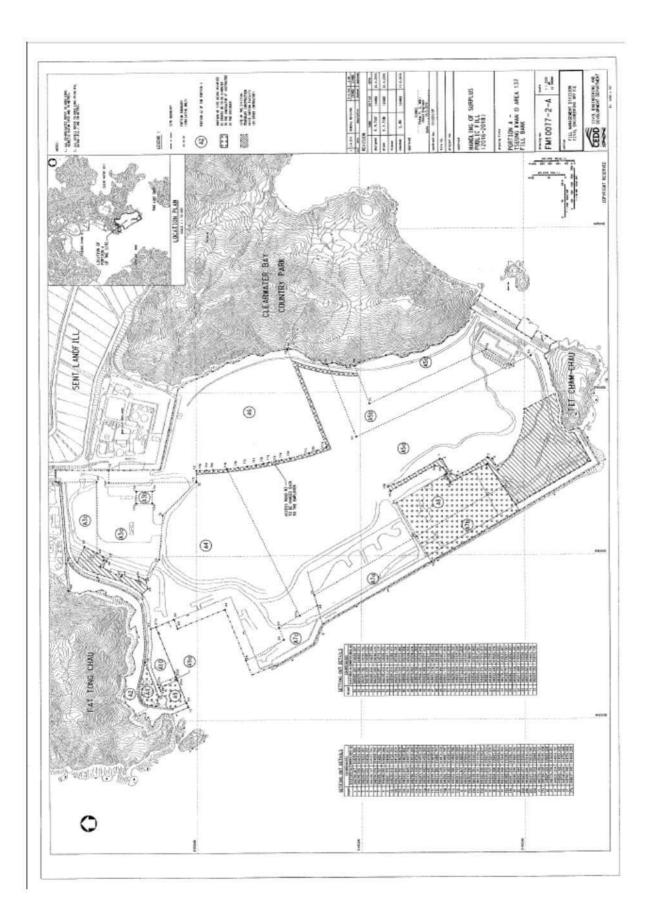
	Location	Implementati	on Status		
Environmental Protection Measures		Implemented	partially implemented	Not implemented	Not Applicable
Waste storage area should be cleaned and maintained regularly.	Waste Storage Area	\checkmark			
Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chem	cal waste. All areas	\checkmark			
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 i Response Plan should be followed.	h the Spillage All areas	V			
• The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	All areas				
Good Site Practices					
Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements and effective disposal to an appropriate facility, of all wastes generated at the site.	for collection All areas	\checkmark			
• Training of site personnel in proper waste management and chemical handling procedures should be provided.	All areas				
Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish dropping into the nearby environment.	and litter from 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				\checkmark
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary waste.	generation of All areas				
Chemical storage area provided with lock and located on sealed areas.	Chemical Storage Area	\checkmark			
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	Chemical Storage Area	\checkmark			
Any unused chemicals or those with remaining functional capacity should be recycled.	All areas	\checkmark			
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil in	terceptors. All areas	\checkmark			
• To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to waste from other general refuse generated by the workforce.	segregate this All areas				
A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable determined by weight each load or othe	be used, e.g. e methods. All areas				
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for t loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within th be diverted into wastewater treatment system.	he storage or	V			
Remove wastes in a timely manner.	All areas	\checkmark			



Appendix J

Site General Layout plan







Appendix K

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2022

		Actual Quantitie	es of Inert C&I	D Materials Gene	erated Monthly			Actual Quantitie	es of C&D Wa	Vastes 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	142.47	0	0	0	66.1		
Feb	0	0	0	0	0	0	120	0	0	0	109.18		
Mar	0	0	0	0	0	0	237.66	0	0	0	117.53		
Apr	0	0	0	0	0	0	307.35	0	0	0	244.74		
May	0	0	0	0	0	0	184.49	0	0	0	130.99		
Jun	0	0	0	0	0	0	164.33	0	0	0.006	70.8		
Sub-total	0	0	0	0	0	0	1156.3	0	0	0.006	739.34		
Jul	0	0	0	0	0	0	87.07	0	0	0	157.76		
Aug	0	0	0	0	38.83	0	103.67	0	0	0	128.13		
Sep	0	0	0	0	0	0	113.71	0	0	0	55.73		
Oct	0	0	0	0	0	0	108.45	0	0	0	70.46		
Nov													
Dec													
Total													

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.



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 November 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
30-Oct	31-Oct	1-Nov	2-Nov	3-Nov	4-Nov		5-No
		1-hr TSP x 1 NM		24-hr TSP 24-hr RSP NM		1-hr TSP x 2	
		WQM Mid-ebb	WQM Mid-ebb	Weekly SI (am) WQM Mid-ebb		WQM Mid-ebb	
		(08:30-10:00) Mid-flood	(08:30-10:00) Mid-flood	(09:00-10:30) Mid-flood		(10:00-11:30) Mid-flood	
		(13:30-15:00)	(14:30-16:00)	(14:30-16:00)		(16:00-17:30)	
6-Nov	7-Nov	8-Nov	/ 9-Nov	10-Nov	11-Nov		12-N
		1-hr TSP x 1 NM	24-hr TSP 24-hr RSP	1-hr TSP x 2 NM Weekly SI (am)		1-hr TSP x 1	
		WQM Mid-flood		WQM Mid-flood		WQM Mid-flood	
		(08:30-10:00) Mid-ebb (13:00-14:30)		(08:30-10:00) Mid-ebb (13:30-15:00)		(09:30-11:00) Mid-ebb (14:30-16:00)	
13-Nov	14-Nov	15-Nov	/ 16-Nov	17-Nov	18-Nov		19-N
		24-hr TSP 24-hr RSP NM WQM		1-hr TSP x 2 NM Weekly SI (am) WQM		1-hr TSP x 1 WQM	
		Mid-ebb (08:00-09:30) Mid-flood (11:00-12:30)		Mid-ebb (08:30-10:00) Mid-flood (14:00-15:30)		Mid-ebb (09:00-10:30) Mid-flood (15:30-17:00)	
20-Nov	21-Nov	(11.00-12.30) 22-Nov	23-Nov	(14.00-15.30) 24-Nov	25-Nov	(15.50-17.00)	26-N
	24-hr TSP 24-hr RSP	1-hr TSP x 1 NM		1-hr TSP x 1 NM Weekly SI (am)		1-hr TSP x 1	
		WQM Mid-ebb (11:00-12:30)		WQM Mid-flood (08:30-10:00)		WQM Mid-flood (09:00-10:30)	
		Mid-flood (16:00-17:30)		Mid-ebb (13:00-14:30)		Mid-ebb (14:30-16:00)	
27-Nov	28-Nov	(10.00-17.30) 29-Nov	/ 30-Nov	(13.00-14.30) 1-Dec	2-Dec	(14.30-10.00)	3-D
4-hr TSP 4-hr RSP		1-hr TSP x 2 NM		1-hr TSP x 1 NM Weekly SI (am)		24-hr TSP 24-hr RSP	
	WQM Mid-flood (10:30-12:00) Mid-ebb		WQM Mid-ebb (08:00-09:30) Mid-flood	Contracting of (any			
	INITA-COD		10000				

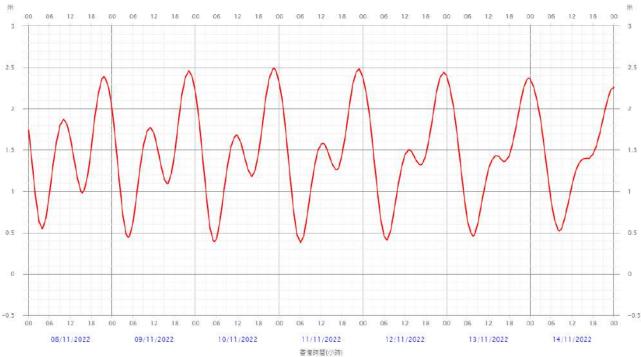
The monitoring schedule may be changed due to unforeseen circumstances such as adverse weather.
 RSP measurement is not required in the EM&A manual and RSP would not presented in EM&A report.
 Water quality monitoring (Mid-Flood &Ebb) on 01/11/2022 was cancelled due to the adverse weather condition (The Tropical Cyclone Signal No.3).
 Water quality monitoring (Mid-Flood &Ebb) on 02/11/2022 was cancelled due to the adverse weather condition (The Tropical Cyclone Signal No.3).



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

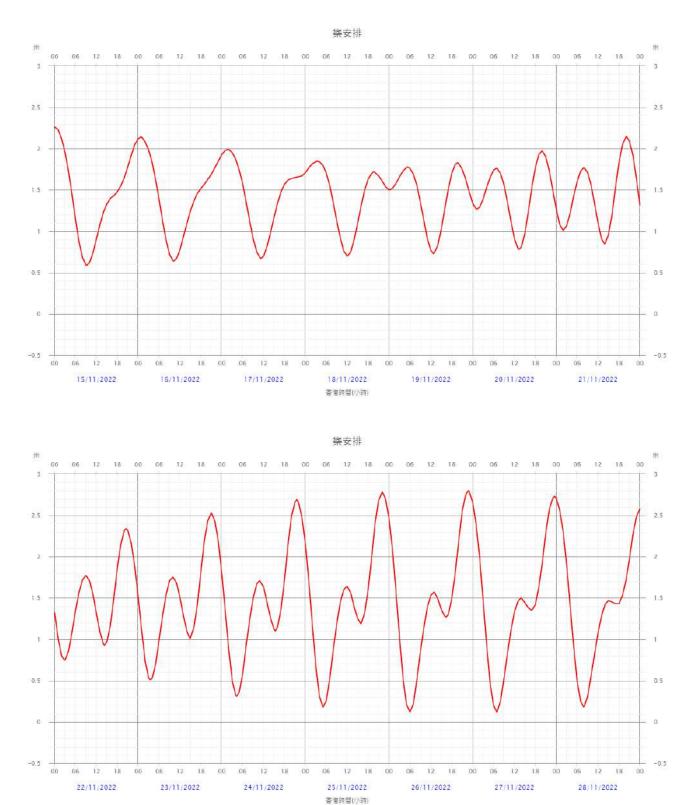


November 2022





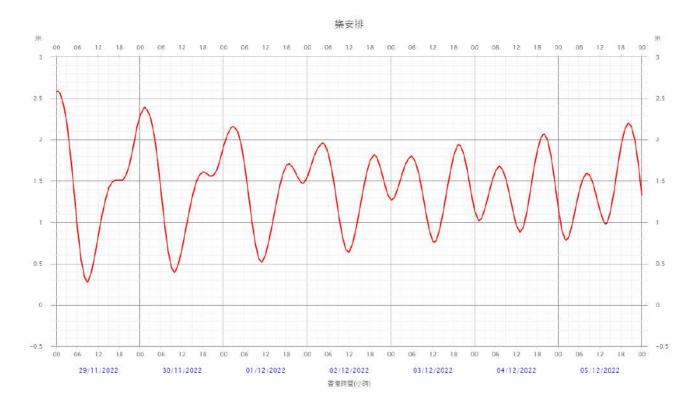
Predicted tide schedule from the Hong Kong Observatory for Impact Water Quality Monitoring (WQM)



November 2022



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



November 2022



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 October 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25-Sep	26-Sep	27-Sep	28-Sep	29-Sep		Saturday 1-Oct
20-3ep	20-369	27-360 1-hr TSP x 1 NM WQM Mid-flood (08:30-10:00)	24-hr TSP 24-hr RSP	1-hr TSP x 3 NM Weekly SI (am) WQM Mid-flood (09:00-10:30)	<u>зо-зер</u>	WQM Mid-flood (10:00-11:30)
		Mid-ebb (13:30-15:00)		Mid-ebb (14:00-15:30)		Mid-ebb (15:30-17:00)
2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
		24-hr TSP 24-hr RSP	Weekly SI (am)	1-hr TSP x 2 NM		1-hr TSP x 1 NM
	WQM Mid-ebb (08:30-10:00) Mid-flood (14:00-15:30)			WQM Mid-ebb (09:30-11:00) Mid-flood (16:00-17:30)		WQM Mid-ebb (11:00-12:30) Mid-flood (17:00-18:30)
9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
	24-hr TSP 24-hr RSP	1-hr TSP x 1 NM WQM Mid-flood (08:30-10:00) Mid-ebb (13:00-14:30)		1-hr TSP x 1 M Weekly SI (am) WQM Mid-flood (09:00-10:30) Mid-ebb (14:00-15:30)		1-hr TSP x 1 WQM Mid-flood (10:00-11:30) Mid-ebb (15:30-17:00)
16-Oct	17-Oct	(10.00-14.00) 18-Oct	19-Oct	(14:00-10:00) 20-Oct	21-Oct	(10.00-17.00) 22-Oct
24-hr TSP 24-hr RSP		1-hr TSP x 2 NM WQM	WQM	1-hr TSP x 1 NM Weekly SI (am)	WQM	24-hr TSP 24-hr RSP
23-Oct	24-Oct	Mid-ebb (08:30-10:00) Mid-flood (15:00-16:30) 25-Oct	Mid-ebb (09:00-10:30) Mid-flood (15:00-16:30) 26-Oct	27-Oct	Mid-ebb (09:30-11:00) Mid-flood (15:30-17:00) 28-Oct	29-Oct
WQM	24-001	1-hr TSP x 2 NM Weekly SI (am) WQM	20-00	1-hr TSP x 1 NM WQM	24-hr TSP 24-hr RSP	1-hr TSP x 2
Mid-ebb (11:00-12:30) Mid-flood (16:30-18:00)		Mid-ebb (12:00-13:30) Mid-flood (17:30-19:00)		Mid-flood (09:00-10:30) Mid-ebb (13:00-14:30)		Mid-flood (09:30-11:00) Mid-ebb (15:00-16:30)
30-Oct	<u>31-Oct</u>	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov

Remarks:

The monitoring schedule may be changed due to unforeseen circumstances such as adverse weather.
 RSP measurement is not required in the EM&A manual and RSP would not presented in EM&A report.
 Water quality monitoring (Mid-Flood &Ebb) on 18/10/2022 was cancelled 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	uplicate	Sample	
Sampling Date	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
	100.1	FC1-S	7.69	FM2-M	87.9
	96.5	FM2-B	0.00	EM1-S	97.0
2022/10/1	99.2	EM1-M	7.14	EC2-B	81.8
	102.2	FC1-S	8.96	FM2-M	95.4
	102.4	FM2-B	6.15	EM1-S	111.3
2022/10/3	102.3	EM1-M	0.00	EC2-B	89.1
	96.7	FC1-S	5.13	FM2-M	95.7
	98.4	FM2-B	0.00	EM1-S	97.5
2022/10/6	97.9	EM1-M	3.92	EC2-B	114.1
	101.4	FC1-S	0.00	FM2-M	84.8
	103.1	FM2-B	0.00	EM1-S	100.2
2022/10/8	102.3	EM1-M	5.13	EC2-B	98.0
	101.8	FC1-S	0.00	FM2-M	108.6
	103.5	FM2-B	0.00	EM1-S	95.4
2022/10/11	103.3	EM1-M	8.22	EC2-B	105.5
	104.8	FC1-S	2.25	FM2-M	98.6
	104.1	FM2-B	6.80	EM1-S	108.0
2022/10/13	103.6	EM1-M	5.24	EC2-B	105.5
	102.7	FC1-S	9.30	FM2-M	117.7
	101.5	FM2-B	3.03	EM1-S	94.6
2022/10/15	101.8	EM1-M	0.92	EC2-B	109.7
	100.6	FC1-S	5.71	FM2-M	113.9
	104.0	FM2-B	5.71	EM1-S	98.0
2022/10/19	104.8	EM1-M	4.08	EC2-B	96.4
	99.8	FC1-S	3.57	FM2-M	107.8
	101.9	FM2-B	4.72	EM1-S	103.0
2022/10/21	103.3	EM1-M	2.74	EC2-B	82.7
	100.7	FC1-S	3.28	FM2-M	106.1
	101.2	FM2-B	0.00	EM1-S	93.5
2022/10/23	101.7	EM1-M	4.65	EC2-B	106.9
	100.3	FC1-S	8.85	FM2-M	104.3
	99.7	FM2-B	5.33	EM1-S	100.0
2022/10/25	100.5	EM1-M	3.03	EC2-B	101.6
	98.3	FC1-S	0.00	FM2-M	107.8
	100.1	FM2-B	2.41	EM1-S	100.1
2022/10/27	100.3	EM1-M	2.90	EC2-B	96.3
	99.6	FC1-S	9.38	FM2-M	96.6
	101.3	FM2-B	3.92	EM1-S	95.8
2022/10/29	101.1	EM1-M	2.82	EC2-B	98.4

Note:(*)% Recovery of QC sample should be between 80% to 120%. (#)% Error of Sample Duplicate should be between -10% to 10%. (@)% Recovery of Sample Spike should be between 80% to 120%.



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: Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road; 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; 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; Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets; 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: 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; Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road; 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; 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: Improve the road washing plan to avoid washing in traffic peak peroid 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: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank. 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: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Regular cleaning at the site haul road is provided to minimize the dust emission; 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: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank. Regular cleaning at the site haul road is provided to minimize the dust emission. 	Closed

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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
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Figures



