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TEST REPORT



China Harbour Engineering Co Ltd

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

TSEUNG KWAN O AREA 137 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: 10 November 2022

Report No.: ENA26391

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Our Ref: PL-202211032

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 Tseung Kwan O Area 137 Fill Bank

Reference is made to your submission of the Monthly EM&A Report for October 2022 for the TKO Area 137 Fill Bank we received by email on 18 November 2022. We are pleased to inform you that we have no adverse comment on the report.

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

Yours faithfully,

Toang Janberg

F. C. Tsang Independent Environmental Checker

cc. CEDD – Mr. P. C. LEUNG



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Contract No.: CV/2021/09 Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O Area 137 Fill Bank

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東業德勤測試顧問有限公司

EXECUTIVE SUMMARY

This monthly Environmental Monitoring and Audit (EM&A) report No.10 was prepared by ETS-Testconsult Ltd (ET) for "Contract No: CV/2021/09 – Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project).

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at TKO Area 137 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 Tseung Kwan O Fill Bank (TKOFB);
- 2. Operation of dewatering plant at TKOFB;
- 3. Operation and Maintenance of crushing plants at TKOFB;
- 4. Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB;
- 5. Operation of the Integrated Public Fill Reception at TKOFB;
- 6. Operation and Maintenance of the Wash House at TKOFB;
- 7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;
- 8. Modification and Operation a Digital Works Supervision System (DWSS) for TKOFB;
- 9. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;
- 10. Maintenance of the Drainage Systems at TKOFB;
- 11. Construction of Gabion Wall at TKOFB;
- 12. Upgrade of Integrated Public Fill Reception Platform at TKOFB
- 13. Trial Production of Blanket Layer Material Recycled from Public Fill at TKOFB
- 14. Upgrading and Repairing Works for Lightning Protection System at TKOFB

Environmental Monitoring Progress

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

- Noise Monitoring (Day-time): 1 Occasion at 1 designated location
- 24-hour TSP Monitoring: 5 Occasions at 2 designated locations
- 1-hour TSP Monitoring: 15 Occasions at 2 designated locations
- Marine Water Quality Monitoring: 11 Occasions at 2 designated locations
- Weekly-site inspection: 4 Occasions

Noise Monitoring

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

Air Monitoring

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

Marine Water Quality Monitoring

According to the summary of marine water monitoring results, no exceedance of Action and Limit levels was recorded in this reporting period.

Weekly Site Inspections

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 25 October 2022. No notification of summons or successful prosecutions with respect to environmental issues was received in this reporting period.

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Future Key Issues

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

- Noise and air quality impact due to site works;
- Maintain wheel washing facilities properly;
- Maintain all drainage and desilting facilities properly;
- Use and maintain silt curtain properly;
- Clean up the fill material on concrete pavement along the BHA frequently;
- Sufficient drip trays for all oil drums / chemical containers;
- Implement all necessary preventive measures to avoid oil leakage. In the event an oil leakage happens, the Contractor should properly remove the leaked oil and handle the contaminated soil and all materials using for this cleaning works as chemical waste;
- Maintain good site practice and waste management to minimize environmental impacts at the site; and
- Follow-up improvements on waste management issues.

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) – Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project).

In accordance with the Environmental Permit (No.: EP-134/2002/O) (the EP), an EM&A programme should be implemented in accordance with the procedures and requirements in the EM&A Manual of the approved EIA report (Registration No. AEIAR-060/2002). The EM&A programme for this study as stated in Section 2.3.1 of the EM&A Manual covers the following environmental aspects during the establishment, operation and removal phases of the Fill Bank at Tseung Kwan O Area 137:

- Fugitive Dust;
- Noise generation from onsite activities;
- Water Quality; and
- Landscape and Visual.

The EM&A programme requires environmental monitoring for air quality, noise and water quality and environmental site inspections for air quality, noise, 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 period and forthcoming months;
- Action and Limit levels for all environmental parameters;
- Event/Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirements in contract documents.

Baseline monitoring was completed in August and October 2002 by MateriaLab. 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 Tseung Kwan O Area 137 in October 2022.

2.0 **PROJECT INFORMATION**

2.1 Scope of the Project

The scale and scope of the Project as stated in the EP include:

- Site clearance;
- Construction of a temporary storm water system;
- Stockpiling of 6 million m³ of public fill;
- Setting up two barging points: one at the TKO Basin and one at the Construction and Demolition Material Sorting Facility (C&DMSF) for transporting the stockpiled public fill by barges;
- Setting up a temporary barging point at the existing Explosive Off-loading Barging Point located in the south-eastern part of Area 137 for the month of May 2004 to December 2004 for transporting the stockpiled public fill by barge;
- Construction and operation of a Construction and Demolition Material Sorting Facility (C&DMSF);
- Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin; and
- Remove the temporary fill bank.

2.2 Site Description

TKO Area 137 Fill Bank is located at the southern end of Wan Po Road. In the vicinity of the site are other industrial uses such as SENT landfill, TKO Industrial Estate, etc. Both Island Resort and Fullview Garden are also situated at more than 1.8km from the site. Other existing Air Sensitive Receivers (ASRs) and Noise Sensitive Receivers (NSRs), including resident developments and schools, are located at a further distance away from TKO Area 137.

2.3 Work Programme

Details of work programme are shown in Appendix G.

2.4 **Project Organization and Management Structure**

The project organization chart is shown in Appendix A.

2.5 Contact Details of Key Personnel

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

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Table 2.1	Contact Details of Key	y Personner

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	9626 6299	2247 4108	
ET (ETL)	C. L. Lau	ET Leader	2946 7791	2695 3944	

3.0 WORK PROGRESS IN THIS REPORTING PERIOD

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

- 1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);
- 2. Operation of dewatering plant at TKOFB;
- 3. Operation and Maintenance of crushing plants at TKOFB;
- 4. Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB;
- 5. Operation of the Integrated Public Fill Reception at TKOFB;
- 6. Operation and Maintenance of the Wash House at TKOFB;
- 7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;
- 8. Modification and Operation a Digital Works Supervision System (DWSS) for TKOFB;
- 9. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;
- 10. Maintenance of the Drainage Systems at TKOFB;
- 11. Construction of Gabion Wall at TKOFB;
- 12. Upgrade of Integrated Public Fill Reception Platform at TKOFB
- 13. Trial Production of Blanket Layer Material Recycled from Public Fill at TKOFB
- 14. Upgrading and Repairing Works for Lightning Protection System at TKOFB

4.0 AIR QUALITY MONITORING

4.1 Monitoring Requirement

TSP levels were monitored in the reporting period in accordance with the EM&A Manual. Table 4.4 shows the Action and Limit Levels for the environmental monitoring works.

4.2 Monitoring Equipment

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

Fable 4.1 Air Quality Monitoring Equipment		
Equipment Model and Make		
HVS	S	Graseby 105, Andersen G1051
Calibra	ator	Tisch TE-5025A

4.3 Monitoring Parameters, Frequency and Duration

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

Table 12	Monitoring poromotoro	duration from	nuonov of oir a	uolity monitoring
Table 4.2	Monitoring parameters,	uuralion. neu		

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

4.4 Monitoring Locations

Table 4.3 tabulates the air quality monitoring locations of this project.

Table 4.3Air quality monitoring locations

Monitoring station	Location
TKO-A1	Site Egress
TKO-A2a	CREO

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 EM&A Manual.

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 was indicated on the flow rate chart.
- For TSP sampling, fiberglass filters (Whatman G653) 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 month of 1 hour or 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 desiccator for 24 hour with the temperature of 25°C <u>+</u> 3°C and the relative humidity (RH) <50% <u>+</u>5%.
- All measurement procedures in Section 2.3 of the EM&A Manual were followed during the reporting period.



Maintenance & Calibration

- 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 (wind speed and wind direction) were directly extracted from Tseung Kwan O Station of Hong Kong Observatory. All wind data during this reporting period are shown in Appendix E.

4.6 Action and Limit Levels

Table 4.4 shows the Action and Limit levels for 24-hr TSP and 1-hr TSP monitoring.

Table 4.4 Action and Limit Levels for 24-h	r TSP and 1-hr TSP
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Monitoring Location	24-hr TSP (mg/m³)		1-hr TSP (mg/m³)	
Monitoring Location	Action Level	Limit Level	Action Level	Limit Level
TKO-A1	210	260	376	500
TKO-A2a *	210	260	376	500

Remark (*): Since dust monitoring stations TKO-A2 and TKO-A2a are located close to the major dust emission sources and also close to the same sensitive receptor and no significant difference between them on the prevailing meteorological conditions, the baseline data from TKO-A2 (August and September 2002 by MateriaLab) can also be valid in the case of TKO-A2a.

4.7 Event-Action Plans

Please refer to Appendix F for details.

4.8 Results and Observation

4.8.1 1-hour and 24-hour TSP Monitoring results

Monitoring data of both 1-hour and 24-hour TSP monitoring carried out in this reporting period are summarized in Appendix B2. Graphical presentation of 1-hour and 24-hour TSP monitoring results for the reporting period is shown in Appendix B3. Wind data included wind speed and wind direction was extracted from Tseung Kwan O Station of Hong Kong Observatory during this reporting period and is presented in Appendix E.

No exceedance of Action and Limit Level of 1-hr TSP and 24-hour TSP monitoring results was recorded during the reporting period.

4.8.2 Observation

Generally, the Contractor implemented sufficient dust mitigation measures, including operation of the mist spraying systems at the CEDD Combined Reception Office and crushing plants. And the site egress area provided wheel washing facilities; Road dampening, water bowsers and automatic water sprinklers on the main haul roads. Other dust sources near TKO Area 137 also included operation of the temporary Construction Waste Sorting Facilities (CWSF) and dumping activities at the SENT Landfill.

5.0 Noise Monitoring

5.1 Monitoring Requirements

Noise monitoring was conducted at 1 monitoring station as specified in the approved EM&A Monitoring Proposal for good site practice. The equipment, parameter, frequency, duration, methodology, calibration details, results and observations of the noise monitoring for the reporting period are presented in this section.

5.2 Monitoring Equipment

An Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level reading including equivalent continuous sound pressure level (Leq) and percentile sound pressure level (Lx). It complies with International



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Electro Technical Commission Publications IEC 61672 Type 1 specification, and speed in m/s was used to monitor the wind speed.

Table 5.1 summarizes noise monitoring equipment model being used. A copy of the calibration certificate for noise meter and calibrator are attached in Appendix C1

Table 5.1	Noise Monitoring	Fauipment
	Noise monitoring	Lyuphion

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

5.3 Monitoring Parameters, Duration and Frequency

Duration, frequencies and parameters of noise measurement are presented in Table 5.2.

Table 5.2	Duration, Fred	uencies and	Parameters	of Noise I	Monitorina
10010 0.2	Duration, 1100	aunoioo ana	i ulumotoro		normoning

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

5.4 Monitoring Locations

One Noise monitoring was conducted at the noise monitoring location, TKO-N1 as shown in Figure 2 during the reporting period. Table 5.3 describes the location of the monitoring station.

Table 5.3Noise Monitoring Location

Monitoring station	Location	Type of Measurement
TKO-N1	Outside site Egress along Wan Po Road	Free Field

5.5 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 mins
- 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.
- 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.

5.6 Action and Limit Levels

The Action and Limit levels for noise levels derived as illustrated in Table 5.4.



Contract No.: CV/2021/09 Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O Area 137 Fill Bank ENA26391 Monthly EM&A Report No.10

Ta	Table 5.4 Action and Limit Levels for noise monitoring				
	Time Period	Action	Limit		
	0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)		

5.7 Event-Action Plans

Please refer to the Appendix F for details.

5.8 Results and Observation

5.8.1 Results

Only Day-time noise monitoring was carried out at monitoring station TKO-N1 in this reporting period. The detail of the noise monitoring is provided in Appendix C2. Graphical presentation of the monitoring result for the reporting period is shown in Appendix C3. Since no documented complaints on noise issue were 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 monitoring.

5.8.2 Observation

The major noise source during the monitoring event was the dump truck traffic and crushing plant.

6.0 MARINE WATER QUALITY MONITORING

6.1 Monitoring Requirements

In accordance with the EM&A Manual, 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 Control Station, C1 and Monitoring Station, M4.

6.2 Monitoring Locations

For the Reclamation Project, there were 4 Designated Monitoring Stations and 2 Designated Control Stations specified in the EM&A Manual. Upon the completion of the monitoring programme under Stage 2 reclamation works, the ET started monitoring events at the impact station M4 and the control station C1 from 18 May 2004 onwards.

Figure 1 shows the location of the marine water quality monitoring stations. Table 6.1 describes the locations of the monitoring stations in the reporting period.

Station Description	Code	HK Metric Grid E	HK Metric Grid N
Control Station (Ebb tide)	TKO-C1	844 740.208	815 371.502
Monitoring Station, Tung Lung Chau Fish Culture Zone	TKO-M4	847 741.029	812 977.878

Table 6.1 Locations of Marine Water Monitoring Stations

According to Environmental Permit (Permit no.:EP-134/2002/N) Condition 3.2, water quality survey/monitoring shall be conducted at control station C1a, monitoring stations M4a and M5 for the period from two weeks before commencement of operation of the additional 5 barging points to 4 weeks after cessation of their operation. The water quality survey/monitoring frequency and parameters at stations C1a, M4a and M5 shall be same as the requirements set out in the EM&A Manual and the monitoring results shall be incorporated in the monthly EM&A reports.

Due to "Hong Kong International Airport, Three Runway System Project Contract 3206 – Main Reclamation Works "(3RS project) operation of the additional barging point at TKO Area 137, the ET started monitoring events at the impact station M4a, M5 and the control station C1a from 14 May 2018 onwards.

Figure 4 shows the location of water control station C1a and water monitoring station M4a and M5.

Table 6.2 describes the locations of the additional marine water monitoring stations

Table 6.2 Locations of Additional Marine Water Monitoring Stations (3RS project)			
Station Description	Code	HK Metric Grid E	HK Metric Grid N
Control Station (Ebb tide)	C1a	845647	814146
	M4a	845922	813973
Impact Monitoring Station	M5	847005	813678

6.3 Monitoring Parameters

Monitoring of the marine water quality parameters are listed in Table 6.3. Table 6.3 Marine Water Quality Monitoring Parameters

In-situ measurement	Laboratory analysis
Depth (m)	Suspended solids (mg/L)
Temperature (℃)	
Dissolved Oxygen (mg/L and % saturation)	
Turbidity (NTU)	
Salinity (ppt)	

6.4 Monitoring Frequency

The monitoring frequency of the marine water monitoring is summarized in Table 6.4.

Table 6.4Monitoring frequency of the marine water

Parameter	Frequency	No. of Location	No. of Depths
Temperature		2	
Salinity		(TKO-C1 and TKO-	3
Dissolved Oxygen (DO)	3 days/week,	M4)	(Surface, mid-depth
Turbidity	2 tides/day	and 3	& bottom)
Suspended solids (SS)		(C1a, M4a and M5)	

6.5 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, and temperature:

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- 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, labelled 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 6.5.

	Table 6.5 Summary of testing procedures				
Laboratory Analysis		Testing Procedure	Detection Limit		
	Total suspended solids	In house method based on APHA 19 th ed 2540D	1.0 mg/L		

Table 6.5Summary of testing procedures

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 6.6 shows the equipment used for in-situ monitoring of water quality. The calibration certificates are attached in Appendix D1.



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Т	Table 6.6 Details of Marine Water Quality Monitoring Equipment (In-site measurement)				
	Parameter	Model	Date of Calibration	Due Date	Equipment No.
	Coordinate of Monitoring stations	Garmin eTrex 10			ET/EW/005/09
	Dissolved Oxygen (Saturation), Temperature, Salinity, Turbidity	YSI Pro DSS Multiparameter Water Quality Meter	29/07/22 & 27/10/22	28/10/22 & 26/01/23	ET/EW/008/011*
	Water Depth	Speedtech SM-5			ET/EW/002/08

Remark:(*) indicates the instrument should be calibrated on use.

6.6 Action and Limit Level

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

Table 6.7	Water Quality Action and Limit Levels
-----------	---------------------------------------

Parameter	Action Level	Limit Level
DO (mg/L)	<u>Surface & Middle</u> <5.45 mg/L (5%-ile of baseline data) <u>Bottom</u> <4.72 mg/L (5%-ile of baseline data)	<u>Surface & Middle</u> <5.10 mg/L (1%-ile of baseline data) <u>Bottom</u> <2.00 mg/L
SS (mg/L)	>6.74 mg/L (95%-ile of baseline data) or	>7.67 mg/L (99%-ile of baseline data) or
(Depth-	>120% of the upstream control station's	>130% of the upstream control station's
averaged)	SS at the same tide on the same day	SS at the same tide on the same day
Turbidity	>4.28 NTU (95%-ile of baseline data) or	>4.58 NTU (99%-ile of baseline data) or
(NTU) (Depth-	>120% of the upstream control station's	>130% of the upstream control station's
averaged)	turbidity at the same tide on the same day	turbidity at the same tide on the same day

The water quality Action and Limit Levels (3RS project) are presented in the table below.

 Table 6.8
 Water Quality Action and Limit Levels (3RS project)

Parameter	Action Level	Limit Level
DO (mg/L)	Surface & Middle	Surface & Middle
	<5.5 mg/L	<4.00 mg/L (1%-ile of baseline data)
	<u>Bottom</u>	<u>Bottom</u>
	<5.2 mg/L	<2.00 mg/L
SS (mg/L) (Depth- averaged)	>4.9 mg/L or >120% of the upstream control station's SS at the same tide on the same day	>5.2 mg/L or >130% of the upstream control station's SS at the same tide on the same day
Turbidity (NTU) (Depth- averaged)	>3.9NTU or >120% of the upstream control station's turbidity at the same tide on the same day	>4.2 NTU or >130% of the upstream control station's turbidity at the same tide on the same day

6.7 Event and Action Plan

Please refer to the Appendix F for details.

6.8 Monitoring Duration in this reporting period

Below is the time schedule for the marine water quality monitoring events that were conducted in this reporting period:

	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										

 Table 6.9
 Time Schedule of Impact Marine Water Quality Monitoring

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).

6.9 Marine Water Quality Monitoring Results

The impact water quality measurement results are detailed in Appendix D2. Appendix D3 presents the water quality monitoring data and graphical presentations of monitoring results. The summary of marine water quality exceedances is shown in Table 6.10.

	Cannary	or impace	manne i			oddinooo			
Station	Exceedance	D	0	Turk	oidity	S	S	Тс	otal
Station	Level	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
	Action	0	0	0	0	0	0	0	0
TKO-M4	Limit	0	0	0	0	0	0	0	0

Table 6.10Summary of Impact Marine Water Quality Exceedances

The impact water quality measurement results (3RS project) are detailed in Appendix D4. Appendix D5 presents the water quality monitoring data and graphical presentations of monitoring results. The summary of marine water quality exceedances (3RS project) is shown in Table 6.11.

	Cannary								
Station	Exceedance	DO		Turbidity		SS		Total	
Station	Level	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
M4a	Action	0	0	0	0	0	0	0	0
IVI4d	Limit	0	0	0	0	0	0	0	0
ME	Action	0	0	0	0	0	0	0	0
M5	Limit	0	0	0	0	0	0	0	0

 Table 6.11
 Summary of Impact Marine Water Quality Exceedances (3RS project)

According to the summary of marine water monitoring results, no exceedance of Action and limit levels was recorded for this reporting period.

7.0 ENVIRONMENTAL AUDIT

7.1 Weekly ET Site Inspections and EPD's Site Inspection

7.1.1 Weekly ET Site Inspections

Weekly ET 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 period, four weekly site inspections were conducted (05, 12, 19 and 26 October 2022). Table 7.1 presents the key findings of weekly ET site inspection in this reporting period.



Table 7.1	porting period						
Date	Key Findings	Action(s) Taken recommended by ET	Action(s) Taken by the Contractor during the ET weekly site audit	Rectification Status by ET			
05 October 2022	Stagnant water was observed near roads trap						
12 October 2022	Stagnant water was observed near roads trap	Closed					
19 October 2022	No defective work or obs	ervation was recorded dur	ing the weekly ET site ins	spection			
26 October 2022	26 October No defective work or observation was recorded during the weekly ET site inspect						

7.1.2 EPD's Site Inspection

EPD's site inspection was carried out on 03 & 25 October 2022.

7.2 Review of Environmental Monitoring Procedures

The monitoring works conducted by the Environmental Team were inspected regularly. The observations for the monitoring works were recorded and summarized as follows:

Air Quality Monitoring

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

Noise Monitoring

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

Water Quality Monitoring

 The monitoring team recorded the observations around the monitoring stations, which might affect the results.

7.3 Assessment of Environmental Monitoring Results

All monitoring results were audited against the Action and Limit levels and any exceedance would be validated.

No exceedance was recorded in water quality, air quality and noise monitoring in this reporting period.

The monitoring results in this reporting period were comparable with those of baseline month. Detailed discussions were given in Section 4, 5 and 6 of this Report.

7.4 Advice on the Solid and Liquid Waste Management Status

The Contractor usually disposed of non-inert waste, including general refuse and materials segregated from the existing stockpiles, to SENT landfill. Table 7.2 summarizes data on offsite waste disposal in this reporting period and the Monthly Summary Waste Flow Table is shown in Appendix K.



Table 7.2 Actual amo	ounts of Waste generated in th	nis reporting period			
Waste Type	Actual Amount	Disposal Locations			
Public Fill ('000m³)	0	TKO 137 Fill Bank			
C&D Waste ('000kg)	34.81	SENT Landfill / Refuse Collection Point			
Chemical Waste (kg/L)	0 (L)	Collected by licensed collector			

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.

Concrete bunding has erected outside the CEDD combined reception office and near the automatic wheel washing facilities for storing generator sets and oil drums. 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 were 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, DP3 and DP4 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.

8.0 Status of Environmental Licensing and Permitting

All permits/licenses valid in this reporting period are summarized in Table 8.1.

Table 8.1	Summary of	t environm	iental licer	ising and permit status
Description	Permit No.	Valid	Period	Section
		From	То	
Environmental Permit	EP- 134/2002/ O	26/11/21	01/01/20 27	 Site clearance Construction of a temporary storm water system Stockpiling of 6 million m3 of public fill Setting up two barging points for transporting the stockpiled public fill by barges Setting up a temporary barging point at the existing Explosive Off-loading Barging Point for the stock part of the stock of the stock of the set of the stock of
				 the month of May 2004 to December 2004 for transporting the stockpiled public fill by barge Construction of operation of a construction and Demolition Material Sorting Facility (C&DMSF) Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin Remove the temporary fill bank
Chemical Waste Registration	5213-839- C3750-04	19/04/17		 Spent battery cell containing heavy metals and spent lubricating oil
Effluent Discharge License	WT000411 69-2022	06/06/22	30/06/27	 Effluent, Surface Run-off, and all other wastewater discharges from screen and sedimentation tank
Marine Dumping Permit	EP/MD/22- 132	25/05/22	30/08/22	 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 0 4 Summary of environmental licensing and permit status



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Billing	7042821	22/05/17	End of	
Account for			project	
Waste				
Disposal				
Notification	475209	12/04/17	End of	
Pursuant to			project	
Section 3(3)				
of the Air				
Pollution				
Control				
(Construction				
Dust)				

9.0 ENVIRONMENTAL NON-CONFORMANCE

9.1 Summary of air quality, noise and marine water quality

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

Since no documented complaints on noise issue were 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 monitoring.

According to the summary of marine water monitoring results, no exceedance of Action and Limit levels was recorded for this reporting period.

9.2 Summary of Environmental Complaints

One complaint was received on 25 October 2022.

9.3 Summary of Notification of Summons and successful Prosecution

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

10.0 IMPLEMENTATION STATUS

10.1 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. Any deficiencies were noted in the remarks of the schedule.

10.2 Implementation Status of Event and Action Plan

Since no exceedance of Action and Limit level of air quality, noise and marine water monitoring results was recorded for this reporting period, no further action was required.

10.3 Implementation Status of Environmental Complaint, Notifications of Summons and Successful Prosecutions Handling

A complaint was received on 25 October 2022, which was forwarded to ET by email on 25 October 2022, from public against "投訴將軍澳 137 區填料庫今日早上出現小龍捲風將泥塵吹向小西灣一帶" Refer to the ET site investigation on 26 October 2022, no defective observation related to dust emission was recorded during the investigation. Water spraying by water lorries and cleaning at the site haul road are provided to minimize the dust emission.

A summary of environmental complaints, notifications of summons and successful prosecutions was given in Table 10.1 and further details of the complaint could be found in the Complaint Log (Appendix N).



Table 10.1	Summary	y of Environmental Complaints and Prosecutions
------------	---------	--

Complaints	logged	Summons	served	Successful prosec	cution received
October 2022	Cumulative	October 2022	Cumulative	October 2022	Cumulative
1	1 17		0	0	0

11.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Impact monitoring of air quality, noise and water quality were carried out at designated locations in accordance with the EM&A Manual in this reporting period.

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

Since no documented complaints on noise issue were 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 monitoring.

According to the summary of marine water monitoring results, no exceedance of Action and Limit levels was recorded for this reporting period.

One complaint was received on 25 October 2022. No prosecutions and notifications of summons were received in this reporting period.

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

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, crushing plant, 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;
- Provide continuously water spraying system for crushing plant including receiving point and unloading point;
- Provide enclosed conveyor belt for transporting the crushed material directly to the unloading point
- Provide dust screen fenced for crushing plant, and the receiving point of crushing facility would be situated inside an enclosure with one side opening for vehicular access;
- 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 site 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, permanent desilting chambers, regularly;
- Operate and maintain the silt curtains regularly;



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- Operate the cleaning vessel within the TKO Basin regularly;
 Clean up the fill material on the concrete pavement at BHA frequently; and
- Remove the stagnant water or provide approved pesticides for the stagnant water in the permanent desilting chambers, 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 in accordance with the Landscape Plan.

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 mesh screen on top of the additional drainage to avoid improper dumping of rubbish;
- 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

12.0 FUTURE KEY ISSUES

12.1 Work Programme for the Coming Month

- 1. Operation of the public fill reception facilities at TKOFB;
- 2. Delivery of public fill to Taishan at TKOFB;
- 3. Operation of dewatering plant at TKOFB;
- 4. Operation of Crushing Plant at TKOFB;
- 5. Operation of Integrated Public Fill Reception Platform at TKOFB;
- 6. Modification and Operation a Digital Works Supervision System (DWSS) for TKOFB;
- 7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB
- 8. Operation and Maintenance of Artificial Intelligence System for Crushing Plant at TKOFB;
- 9. Operation and maintenance of the 3 nos. Wash House at TKOFB;
- 10. Operation and Maintenance of Wheel Washing Facilities at TKOFB;
- 11. Carrying out preliminary sorting of Public Fill for 3RS project at TKOFB
- 12. Construction of Gabion Wall at TKOFB

12.2 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

- Chemical and waste management;
- Treatment of runoff and wastewater prior to discharge;
- Dust generated from loading and unloading activities:
- Dust generated from dump trucks traffic;
- Regular checking of the drainage system;
- Flood prevention; and
- Noise from operation of the crushing plant.

Mitigation measures to be required in the coming month:

Air Quality Impact

- To provide adequate water spraying on haul roads and working platform;
- To operate and maintain automatic wheel washing facilities properly;
- To dampen the fill material prior to unloading or movement;
- To provide road sweeping on haul road near site egress and public roads outside site egress;
 - To ensure implementation of the dust mitigation measures for the site activities;
- To maintain proper operation of the mist spraying system;
- To provide proper maintenance for vehicles and machines on site; and
- To investigate any other dust sources around the air sensitive receivers

<u>Noise</u>

To switch off equipment if not in use;



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- To operate silent equipment;
- To identify the noise sources inside and outside of the site;
- To follow up any exceedance caused by the Fill Bank operation; and
- To re-schedule the work activities in the event of valid noise exceedance.

Water Quality Impact

- To maintain the drainage system in the Fill Bank;
- To ensure the cleanliness of oil interceptor bypass tanks and all the drainage channels;
- To maintain the existing silt trap to ensure good efficiency of wheel wash facilities;
- To repair, inspect and maintain the silt curtains regularly;
- To provide covers for the drip trays to avoid stagnant water pond due to rainfall;
- To deploy a cleaning vessel to remove floating rubbish in the TKO Basin;
- To clean up the concrete paved area at Portion I every night to avoid fill materials from being washed into the sea;
- To avoid any stagnant water or provide insecticide to avoid mosquito breeding in the Fill Bank.
- To prevent untreated wastewater directly discharge into nullahs; and
- To provide desilting facilities such as granular rock filter and geotextile filter at nullah.

Chemical and Waste Management

- To remove waste from the site regularly;
- To properly store and handle chemical wastes on site;
- To implement trip ticket system for all the imported public fill and general refuse disposal;
- To provide and manage sufficiently sized drip trays for diesel drums or chemical containers;
- To remove existing unwanted material in the stockpiles and avoid improper disposal at the Fill Bank through inspection of imported truckloads;
- To maintain proper housekeeping at the workshop area;
- To remove the oil stains in the event of leakage and handle all materials using for this cleaning works as chemical waste;
- To maintain mesh screen on top of the additional drainage, DP3 opening to avoid improper dumping of rubbish into this channel; and
- To identify C&D material by packaging, labeling, storage, transportation and disposal in accordance with statutory regulations.

12.3 Monitoring Schedule for the Coming Month

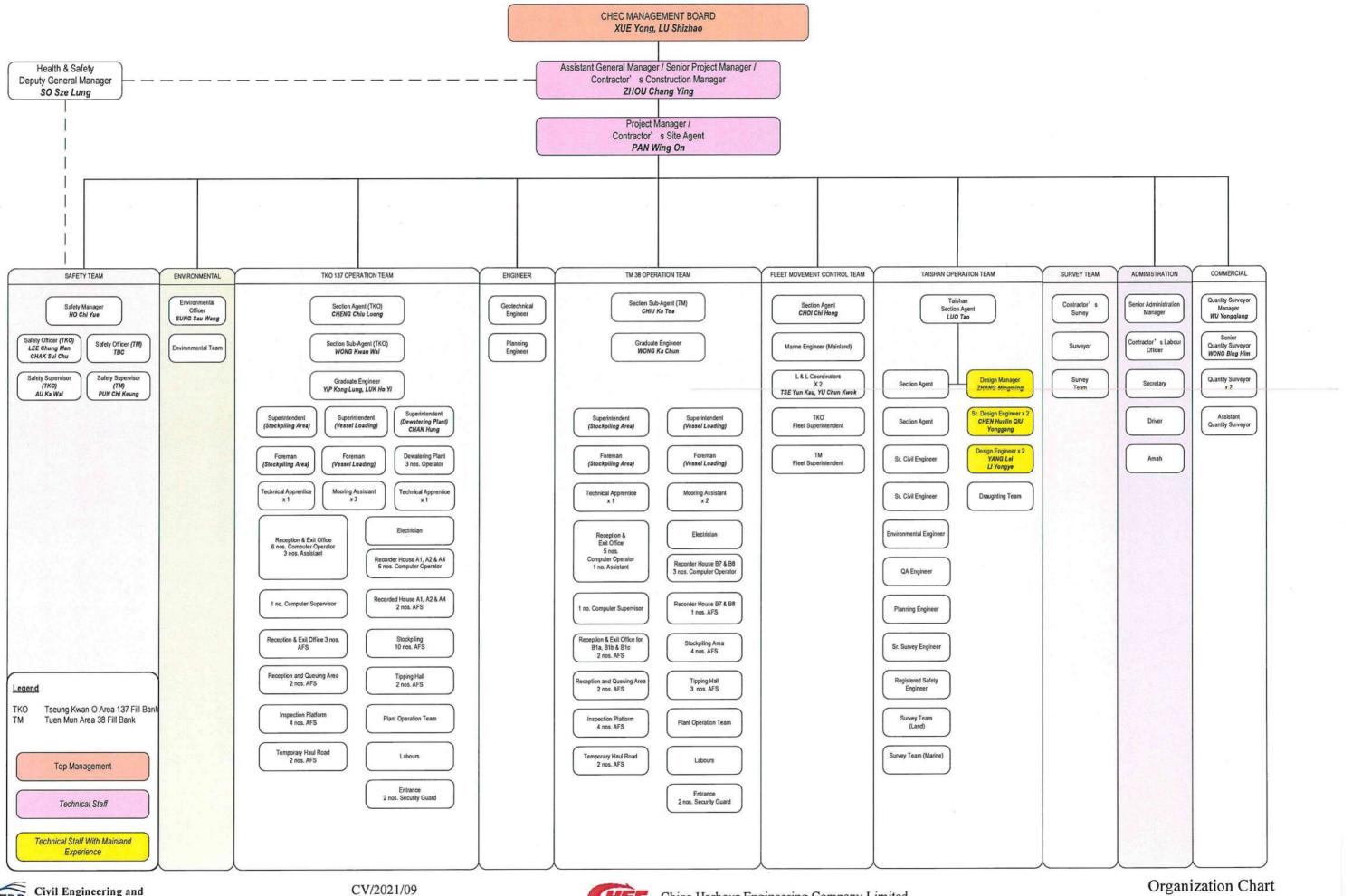
The proposed EM&A program of the coming month and predicted tide schedule from the Hong Kong Observatory are attached in Appendix L.

- 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 Equipment



東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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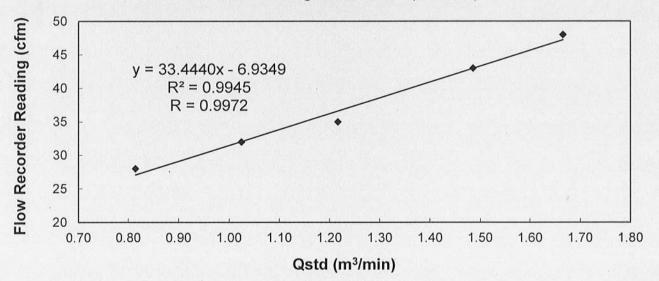
T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com

TEST REPORT

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

Manufacturer	:	Graseby 105	Date of Calibration		: 02 September 2022		
Serial No.	:	9795 (ET/EA/003/18)	Calibration Du	ue Date	: <u>01 N</u>	ovember 20	22
Method	:	Five-point calibration by using stand Operations Manual	ard calibration ki	t Tisch TE-	5025A re	fer to the	1
Results	:	Flow recorder reading (cfm)	49	43	34	28	22
		Qstd (Actual flow rate, m ³ /min)	1.65	1.52	1.23	1.07	0.84
		Pressure : 754.56 mm	n Hg	Temp. :	303	к	

Sampler 9795 Calibration Curve Site: Tseung Kwan O 137 (TKO-A1)



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

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

Calibrated by :

MAK, Kei Wai (Assistant Supervisor) Checked by

LAU, Chi Leung

(Environmental Team Leader)

- END OF REPORT -



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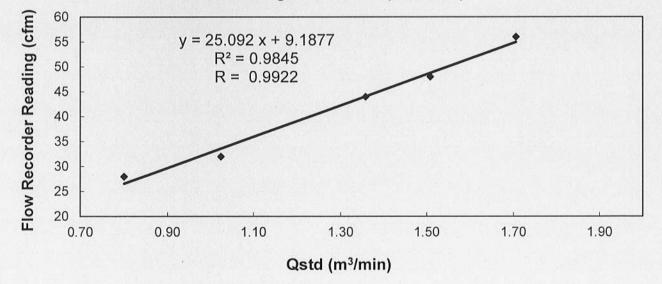
TEST REPORT

<u>Calibration Report</u> of

High Volume Air Sampler

Manufacturer	:	Andersen G1051 D	Date of Calibration			September 2	022		
Serial No.	:	<u>1176 (ET/EA/003/05)</u> C	November 20	22					
Method	:	Based on Operations Manual for the 5-pc manufactured by Tisch TE-5025 A	ased on Operations Manual for the 5-point calibration using standard calibration kit nanufactured by Tisch TE-5025 A						
Results	:	Flow recorder reading (cfm)	52	48	43	35	29		
		Qstd (Actual flow rate, m ³ /min)	1.68	1.51	1.42	1.06	0.76		
		Pressure : 754.56 mm Hg	1	Temp. :	303	к			

Sampler 1176 Calibration Curve Site: Tseung Kwan O 137 (TKO-A2a)



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.

Mai Mak Calibrated by : MAK, Kei Wai

(Assistant Supervisor)

Checked by

AU, Chi Leung

EAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -

	100-2000						REC/	ALIBRATION
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	Y		?		$\boldsymbol{\ell}$	P.P.	ation	
	0e	ruju	cate o	1	Oar	ww	mon	
			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			
	[]	Vol. init	Vol. Final	ΔVol.	∆Time	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 10	1 1	0.8750 0.7200	8.9 12.9	5.50 8.00	
	5	9	_		····	12.7	1	
			<u></u>	Data Tabula	tion			
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	A REAL PROPERTY AND A REAL	Va	(x-axis)	(y-axis)	
	0.9981	0.6865			0.9958	0.6848	0.8845	
	0.9939	0.9715	2.002		0.9915	0.9692	1.2509 1.3985	
	0.9917	1.1320	2.348		0.9882	1.1294	1.3565	
	0.9852	1.3684	2.831		0.9829	1.3651	1.7690	
		m=	2.080)75		m=	1.30293	
	QSTD	b=	-0.013		QA	b=	-0.00826	
	<u> </u>	r=	0.999	·		r=	0.99996	
			da . 194	Calculation			21/12-1	
		ΔVol((Pa-ΔP) Vstd/ΔTime)/Pstd)(Tstd/Ta	a) ·		ΔVol((Pa-Δl Va/ΔTime	rj/Pa)	
		vstu/Amme	For subsequ	ent flow rat		· · · · · · · · · · · · · · · · · · ·		
		// []				//		
	Qstd=	1/m((√∆H(Pa <u>Tstd</u> Pstd Ta))-b)	Qa=	_1/m((√Δł	l(Та/Ра))-b)	
[Standard	Conditions						-
Tstd:				Į		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	ter manome	eter reading	(mm Hg)				, Reference Meth	
		perature (°K)				•	ended Particulat	
Pa: actual ba b: intercept		essure (mm	ng)		th	e Atmosphe	ere, 9.2.17, page	30
m: slope				L				J
	· · · · ·							

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



Monitoring Station : TKO-A1

Location : Site Egress

Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter Weight (g)		
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
3/10/2022	09:30	4/10/2022	9:30	25943.74	25967.74	24.00	1.1941	1.1941	1.1941	2.7249	2.8951	99
8/10/2022	09:30	9/10/2022	9:30	25970.74	25994.74	24.00	1.1941	1.1941	1.1941	2.7291	2.9079	104
14/10/2022	10:00	15/10/2022	10:00	25997.74	26021.74	24.00	1.2240	1.2240	1.2240	2.7261	2.9182	109
20/10/2022	09:30	21/10/2022	9:30	26024.74	26048.74	24.00	1.1941	1.1941	1.1941	2.7438	2.9192	102
26/10/2022	10:00	27/10/2022	10:00	26051.74	26075.74	24.00	1.1941	1.1941	1.1941	2.7208	2.9168	114

Monitoring Station : TKO-A2a

Location : CREO

Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	m ³ /min.) Average		Filter Weight (g)		
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)	
3/10/2022	09:35	4/10/2022	9:35	27947.71	27971.71	24.00	0.9490	0.9490	0.9490	2.7254	2.8457	88	
8/10/2022	09:30	9/10/2022	9:30	27974.71	27998.71	24.00	0.9091	0.9091	0.9091	2.7289	2.8546	96	
14/10/2022	10:10	15/10/2022	10:10	28001.71	28025.71	24.00	0.9490	0.9490	0.9490	2.7292	2.8659	100	
20/10/2022	09:30	21/10/2022	9:30	28028.71	28052.71	24.00	0.9490	0.9490	0.9490	2.7496	2.8740	91	
26/10/2022	10:05	27/10/2022	10:05	28055.71	28079.71	24.00	0.9091	0.9091	0.9091	2.7360	2.8735	105	

Summary of 1-hr TSP Monitoring Results



Monitoring Station : TKO-A1

Location : Site Egress

Site Egress

Sta	art	Finish		Elapse Time		Sampling	Flow Rate (m ³ /min.)		Average	Filter Weight (g)		Conc. (μg/m ³)
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	ουπο: (μg/m)
5/10/2022	13:00	5/10/2022	14:00	25967.74	25968.74	1.00	1.1642	1.1642	1.1642	2.7446	2.7591	208
5/10/2022	16:30	5/10/2022	17:30	25968.74	25969.74	1.00	1.1642	1.1642	1.1642	2.7242	2.7395	219
7/10/2022	10:45	7/10/2022	11:45	25969.74	25970.74	1.00	1.1941	1.1941	1.1941	2.7386	2.7537	211
10/10/2022	09:30	10/10/2022	10:30	25994.74	25995.74	1.00	1.1642	1.1642	1.1642	2.7267	2.7416	213
10/10/2022	13:00	10/10/2022	14:00	25995.74	25996.74	1.00	1.1642	1.1642	1.1642	2.7289	2.7450	230
12/10/2022	10:30	12/10/2022	11:30	25996.74	25997.74	1.00	1.1941	1.1941	1.1941	2.7234	2.7393	222
17/10/2022	14:10	17/10/2022	15:10	26021.74	26022.74	1.00	1.1941	1.1941	1.1941	2.7256	2.7418	226
17/10/2022	15:30	17/10/2022	16:30	26022.74	26023.74	1.00	1.1941	1.1941	1.1941	2.7259	2.7430	239
19/10/2022	10:25	19/10/2022	11:25	26023.74	26024.74	1.00	1.1642	1.1642	1.1642	2.7409	2.7559	215
21/10/2022	09:36	21/10/2022	10:36	26048.74	26049.74	1.00	1.1941	1.1941	1.1941	2.7412	2.7554	198
21/10/2022	10:40	21/10/2022	11:40	26049.74	26050.74	1.00	1.1941	1.1941	1.1941	2.7207	2.7365	221
24/10/2022	14:25	24/10/2022	15:25	26050.74	26051.74	1.00	1.1642	1.1642	1.1642	2.7236	2.7402	238
28/10/2022	09:30	28/10/2022	10:30	26075.74	26076.74	1.00	1.1941	1.1941	1.1941	2.7488	2.7649	225
28/10/2022	13:00	28/10/2022	14:00	26076.74	26077.74	1.00	1.1941	1.1941	1.1941	2.7299	2.7476	247
31/10/2022	09:30	31/10/2022	10:30	26077.74	26078.74	1.00	1.2240	1.2240	1.2240	2.7246	2.7419	236



Monitoring Station : TKO-A2a

Location : CREO

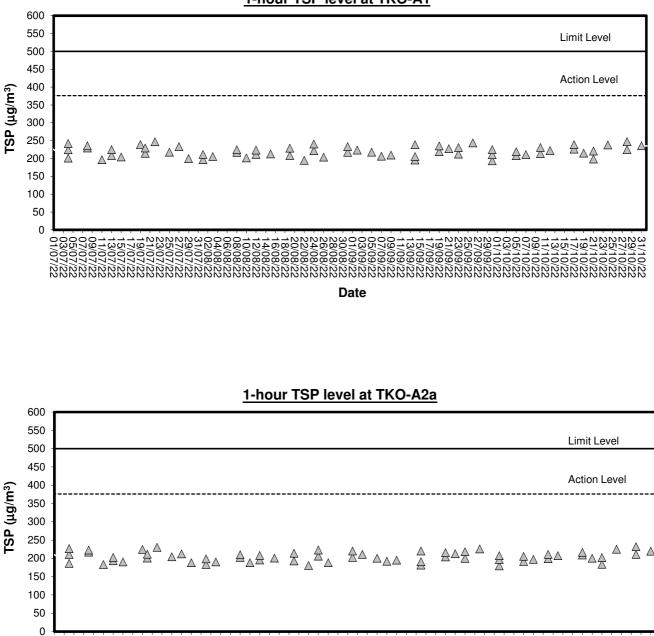
Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter Weight (g)		0 (
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	-Conc. (μg/m ³)
5/10/2022	13:05	5/10/2022	14:05	27971.71	27972.71	1.00	0.9490	0.9490	0.9490	2.7359	2.7468	191
5/10/2022	16:45	5/10/2022	17:45	27972.71	27973.71	1.00	0.9490	0.9490	0.9490	2.7370	2.7487	205
7/10/2022	10:50	7/10/2022	11:50	27973.71	27974.71	1.00	0.9889	0.9889	0.9889	2.7400	2.7517	197
10/10/2022	09:40	10/10/2022	10:40	27998.71	27999.71	1.00	0.9889	0.9889	0.9889	2.7441	2.7559	199
10/10/2022	13:00	10/10/2022	14:00	27999.71	28000.71	1.00	0.9889	0.9889	0.9889	2.7388	2.7513	211
12/10/2022	10:40	12/10/2022	11:40	28000.71	28001.71	1.00	0.9490	0.9490	0.9490	2.7456	2.7574	207
17/10/2022	14:15	17/10/2022	15:15	28025.71	28026.71	1.00	0.9091	0.9091	0.9091	2.7399	2.7513	209
17/10/2022	15:45	17/10/2022	16:45	28026.71	28027.71	1.00	0.9091	0.9091	0.9091	2.7382	2.7500	216
19/10/2022	10:35	19/10/2022	11:35	28027.71	28028.71	1.00	0.9490	0.9490	0.9490	2.7438	2.7552	200
21/10/2022	09:40	21/10/2022	10:40	28052.71	28053.71	1.00	0.9889	0.9889	0.9889	2.7365	2.7474	184
21/10/2022	10:50	21/10/2022	11:50	28053.71	28054.71	1.00	0.9889	0.9889	0.9889	2.7386	2.7506	202
24/10/2022	14:30	24/10/2022	15:30	28054.71	28055.71	1.00	0.9490	0.9490	0.9490	2.7487	2.7615	225
28/10/2022	09:40	28/10/2022	10:40	28079.71	28080.71	1.00	0.9490	0.9490	0.9490	2.7369	2.7489	211
28/10/2022	13:00	28/10/2022	14:00	28080.71	28081.71	1.00	0.9490	0.9490	0.9490	2.7270	2.7402	232
31/10/2022	09:40	31/10/2022	10:40	28081.71	28082.71	1.00	0.9490	0.9490	0.9490	2.7367	2.7492	220



Appendix B3

Graphical Plots of Impact Air Quality Monitoring Data

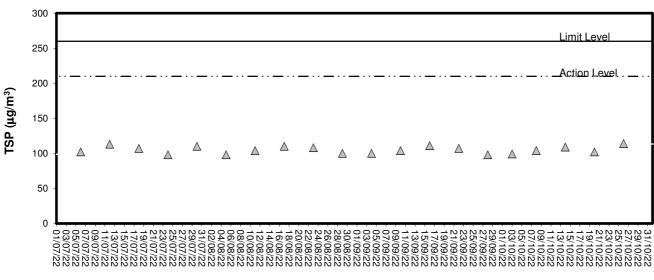




1-hour TSP level at TKO-A1

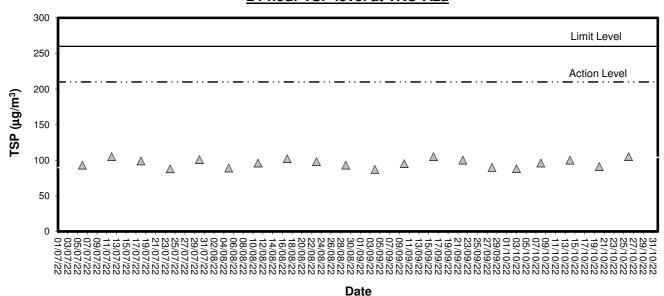
Date





24-hour TSP level at TKO-A1





24-hour TSP level at TKO-A2a



Appendix C1

Calibration Certificates for Impact Noise Monitoring Equipment



Calibration Certificate

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



Calibration Certificate

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 -----



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



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	- Andrewski - A		The second second
Resolution	0.1 dB	Contracting and a second	Victor and Constraints

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

The results shown in this certificate are traceable to the International System of Units (SI) or recognised measurement standards. This report shall not be reproduced unless with prior written approval from this laboratory.



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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
Sug Well of	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
C Mainhting	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
States and	Range	30-130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Slow	114.0	(2) (i) (A) (i)	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



東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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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		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
1.49.53	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
			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
Di anciente			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		Man State	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
2 30			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 C2

Impact Noise Monitoring Results



Day-time Noise Monitoring

Monitoring Location: TKO-N1 (Site Egress)

Data	Start Sampling Time	Nois	e Level di	B (A)	Wind	Weather	Major Noise
Date	(hh:mm)	Leq(30min)	L ₁₀	L ₉₀	Speed (m/s)	Condition	Source
03/10/2022	11:00	64.8	66.2	60.7	0.2	Fine	Vehicle passing by

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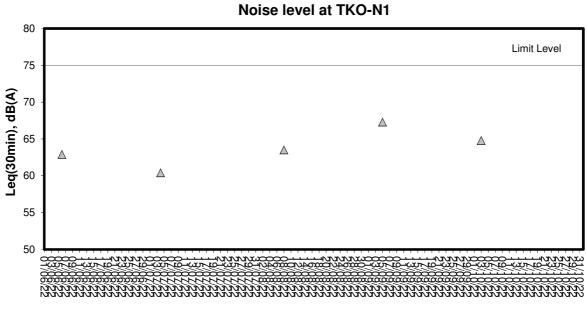


Appendix C3

Graphical Plots of Impact Noise Monitoring Data



Noise Monitoring (Day-time)



Date



Appendix D1

Calibration Certificates for Impact Marine Water Quality Monitoring Equipments



<u>Perform</u>	ance Check / Calibratio	on of Multiparameter Wate	r Qı	<u>ality Meter</u>
Equipment Ref. No. :	ET/EW/008/011	Manufacturer	4	YSI
Iodel No.	Pro DSS	Serial No.	;	18M101760
Date of Calibration	7/29/2022	Calibration Due Date	:	10/28/2022

<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)
20.3	20.5	+0.2
25.0	25.4	+0.4
28.4	28,5	+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)
B(<u></u>		

Tolerance Limit (pH unit): ± 0.10

3. Conductivity

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)		
146.9	148.1	+0.8		
1412	1445	+2.3		
12890	13257	+2.8		
58760	61091	+4.0		

Tolerance Limit (µS/cm): ± 10.0%

4. Salinity

(Method Reference: APHA 19ed 2520 B)

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
10.0	9.88	-1.2
20.0	18.94	-5.3
30.0	29.03	-3.2

Tolerance Limit (g/L): ± 10.0%



Performance Check /	Calibration of Multiparamet	er Water Quality Meter
Equipment Ref. No. : ET/EW/008/011	Manufacture	r : YSI
Model No. Pro DSS	Serial No.	: 18M101760
Date of Calibration : 7/29/2022	Calibration I	Due Date : <u>10/28/2022</u>
5. Dissolved Oxygen (Method Reference: APHA 19ed 4500-O (Expected Reading (mg/L) 1.75 4.60	3) Displayed Reading (mg/L) 1.79 4.68	Tolerance (mg/L) +0.04 +0.08
6.55	6.58	+0,03
 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	41.6	+4.0
100	103.4	+3.4
400	397.8	-0.5
The equipment complies # / does not comp # Delete as appropriate	$\frac{1}{2}$ with the specified requirements and is d	eemed acceptable [#] / unacceptable. [#] for use.
Calibrated by CL	Appro	oved by :



Performance Check / Calibration of Multiparameter Water Quality Meter Manufacturer YSI : Equipment Ref. No. 👔 ET/EW/008/011 Serial No. 18M101760 1 Model No. 2 Pro DSS Date of Calibration Calibration Due Date 1/26/2023 10/27/2022 1

Results

1. Temperature

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

Reading of Reference Thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
19.7	19.9	+0.2
25.0	25.1	+0.1
27.2	27.4	+0.2

Tolerance Limit (°C): ± 2.0

2. pH

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

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)

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	149.5	+1.8			
1412	1446	+2.4			
12890	13051	+1.2			
58760	60790	+3.5			

Tolerance Limit (µS/cm): ± 10.0%

4. Salinity

(Method Reference: APHA 19ed 2520 B)

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)			
10.0	10.03	+0.3			
20.0	19.55	-2.3			
30.0	29.24	-2.5			

Tolerance Limit (g/L): ± 10.0%



Equipment Ref. No. : ET/EW/008/011	Manufacturer	: YSI				
Model No. : Pro DSS	Serial No.	: 18M101760				
Date of Calibration : 10/27/2022	Calibration Du	e Date : 1/26/2023				
5. Dissolved Oxygen Method Reference: APHA 19ed 4500-O						
	Displayed Reading (mg/L)	Tolerance (mg/L)				
Expected Reading (mg/L) 1.55	1.58	+0.03				
4.81	4.91	+0.10				
6.07	6.12	+0.05				
Method Reference: APHA 19ed 2130 B) Expected Reading (NTU) 10	Displayed Reading (NTU) 10.1	Tolerance (%) +1.0				
40	40.9	+1.0				
100	99.4	-0.6				
100		+1.7				
400 Folerance Limit (NTU): ± 10.0%	406.8	+1.7				
Tolerance Limit (NTU): ± 10.0%						
Tolerance Limit (NTU): ± 10.0% The equipment complies [#] / does not comp	406.8					



Appendix D2

Impact Marine Water Quality Monitoring Results

Monitoring Station : TKO-C1



Date	Time	Ambient Temp (°C) / Weather	Monitorir	ng Depth	Temp	Salinit	ty (ppt)	Dissolv	ved Oxyger	n (mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	U)	Susper	nded Solids	ه (mg/L)				
Date	Time	Condition	(n	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average				
		29	Surface	1.0	28.3	33.9 33.9	33.9	5.99 5.98	5.99	6.02	92.9 92.7	92.8	1.46 1.47	1.47		2.1 1.7	1.9					
3/10/2022	14:01:03						Middle	10.1	28.2	34.2 34.3	34.3	6.03 6.08	6.06	6.02	93.5 94.3	93.9	1.95 1.92	1.94	1.82	2.5 2.2	2.4	2.0
	/ Fine	Bottom	20.2	28.2	34.4 34.4	34.4	6.24 6.29	6.27	6.27	96.9 97.7	97.3	2.09 2.03	2.06		1.7 1.6	1.7	1					
			Surface	1.0	28.5	34.1 34.1	34.1	6.23 6.23	6.23		97.0 97.0	97.0	0.89	0.92		2.7	2.6					
5/10/2022	15:03:01	29	Middle	9.6	28.4	34.6	34.7	6.32	6.35	6.29	98.6	99.0	1.47	1.46	1.21	1.5	2.2	2.2				
	/ Fine	Bottom	19.2	28.3	34.7 34.8	34.8	6.37 6.44	6.45	6.45	99.4 100.4	100.5	1.45 1.24	1.25		2.8 1.1	2.0						
		Surface	1.0	28.5	34.8 29.9	29.9	6.46 6.36	6.35		100.7 96.6	96.4	1.26 1.80	1.82		2.8 1.2	1.2						
7/10/2022	16:00:41	30	Middle	11.3	28.5	29.9 29.9	29.9	6.33 6.22	6.21	6.28	96.2 94.6	94.5	1.84 2.10	2.11	2.20	1.2 1.0	1.4	1.2				
TI TO/LOLL	10.00.41	/ Fine		22.6	28.5	29.9 29.9	29.9	6.20 6.04	6.04	6.04	94.3 91.8	91.8	2.11 2.66	2.67	2.20	1.8 1.0	1.0	1.2				
			Bottom			29.9 30.1		6.03 6.44		6.04	91.7 97.4		2.68 2.82			1.0 1.7						
		29	Surface	1.0	28.1	30.1 30.1	30.1	6.44 6.41	6.44	6.42	97.4 97.0	97.4	2.87 3.05	2.85		2.0	1.9	l				
10/10/2022	16:30:13	/ Fine	Middle	10.8	28.1	30.1	30.1	6.40	6.41		96.8	96.9	3.08	3.07	3.18	1.6	1.5	2.4				
		/ Fine	Bottom	21.6	28.1	30.1 30.1	30.1	6.32 6.31	6.32	6.32	95.6 95.5	95.6	3.60 3.63	3.62		4.6 3.1	3.9					
		29)5:09 / Fine	Surface	1.0	27.6	34.9 34.9	34.9	6.35 6.34	6.35	6.32	97.8 97.7	97.8	1.35 1.35	1.35		1.9 1.3	1.6					
12/10/2022	9:05:09		Middle	10.6	27.6	35.0 35.0	35.0	6.29 6.28	6.29	0.52	96.9 96.9	96.9	1.29 1.25	1.27	1.51	1.2 1.7	1.5	1.4				
			Bottom	21.3	27.6	35.1 35.1	35.1	6.24 6.24	6.24	6.24	96.3 96.3	96.3	1.85 1.96	1.91		1.2 1.1	1.2					
	28	Surface	1.0	27.4	30.1 30.1	30.1	6.49 6.45	6.47		97.1 96.5	96.8	2.60 2.69	2.65		2.4 1.1	1.8						
14/10/2022	9:06:56	/ Fine			Middle	10.9	27.4	30.1 30.1	30.1	6.23 6.21	6.22	6.35	93.2 92.9	93.1	3.27 3.31	3.29	3.33	1.6 1.3	1.5	1.6		
			Bottom	21.7	27.4	30.2 30.2	30.2	6.16 6.16	6.16	6.16	92.1 92.1	92.1	4.02 4.07	4.05		1.5 1.8	1.7	1				
		27	Surface	1.0	25.6	30.7 30.6	30.6	6.52 6.48	6.50		94.9 94.4	94.7	3.27 3.33	3.30		1.8 1.7 2.6 2.2						
20/10/2022	15:01:12		Middle	11.3	25.8	30.5 30.5	30.5	6.34 6.32	6.33	6.42	92.5 92.2	92.4	3.58 3.62	3.60	3.68	1.4 3.1	2.3	3.0				
		/ Fine	Bottom	22.6	25.8	30.5 30.6	30.5	6.28	6.28	6.28	91.6 91.5	91.6	4.15	4.14		5.3 3.7	4.5					
		27	Surface	1.0	25.5	30.3 30.1	30.2	6.56 6.51	6.54		95.1	94.9	2.96	2.98		1.1 1.2	1.2					
22/10/2022	15:31:17	21	Middle	11.2	25.6	30.3	30.4	6.32	6.31	6.42	94.6 91.8	91.7	3.05	3.06	3.09	1.0	1.0	1.1				
		/ Fine	Bottom	22.4	25.6	30.4 30.6	30.6	6.30 6.27	6.27	6.27	91.5 91.2	91.2	3.07 3.22	3.24		1.0 1.1	1.3	1				
			Surface	1.0	25.6	30.6 30.6	30.6	6.27 6.44	6.41		91.2 93.6	93.2	3.25 2.78	2.81		1.4 2.6	3.0					
24/10/2022	16:01:37	27	Middle	11.1	25.5	30.6 30.7	30.7	6.37 6.38	6.38	6.39	92.7 92.8	92.8	2.83 3.04	3.03	3.10	3.4 3.1	3.0	3.4				
LHITOLOLL	10.01.07	10.01.07	10.01.07	10.01.07	/ Fine	Bottom	22.2	25.5	30.7 30.7	30.7	6.38 6.36	6.36	6.36	92.8 92.5	92.5	3.02 3.48	3.46	0.10	2.9 4.7	4.3	0.4	
						30.7 30.8		6.36 6.82		0.30	92.5 98.4		3.44 2.50			3.9 3.6						
		26	Surface	1.0	25.0	30.8 30.8	30.8	6.81 6.70	6.82	6.76	98.2 96.7	98.3	2.52 2.24	2.51		5.3 1.8	4.5					
26/10/2022	16:31:16	/ Fine	Middle	10.9	25.1	30.8 30.9	30.8	6.69 6.65	6.70		96.6 96.0	96.7	2.23	2.24	2.53	2.9	2.4	2.7				
		, 1116	Bottom	21.8	25.0	30.9	30.9	6.64	6.65	6.65	95.9	96.0	2.86	2.84		1.5	1.3	 				
		26	Surface	1.0	25.0	30.6 30.6	30.6	6.72 6.68	6.70	6.60	96.8 96.3	96.6	3.68 3.66	3.67		3.9 3.3	3.6					
28/10/2022	9:00:26		Middle	10.0	25.0	30.7 30.7	30.7	6.51 6.50	6.51		93.8 93.7	93.8	3.47 3.48	3.48	3.56	3.4 2.0	2.7	3.1				
		/ Fine	Bottom	20.1	25.0	30.7 30.7	30.7	6.48 6.48	6.48	6.48	93.4 93.4	93.4	3.57 3.52	3.55		2.8 3.4	3.1					

Monitoring Station : TKO-M4



		Ambient Temp	Monitori	na Depth	Temp	Salinit	y (ppt)	Dissolv	ed Oxyger	n (mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Time	(°C) / Weather Condition	(r		(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		29	Surface	1.0	28.3	33.9 33.9	33.9	5.95 5.95	5.95		92.2 92.3	92.2	1.48 1.45	1.47		1.9 1.6	1.8	
3/10/2022	15:06:57		Middle	5.3	28.3	34.1 34.2	34.1	5.98 6.00	5.99	5.97	92.8 93.2	93.0	1.68	1.67	1.71	1.2	1.8	2.5
		/ Fine	Bottom	10.6	28.2	34.2 34.2	34.2	6.06 6.08	6.07	6.07	94.0 94.3	94.1	1.96	1.99		3.7	3.8	1
		30	Surface	1.0	28.5	33.9	33.9	6.08 6.08	6.08		94.6	94.6	0.73	0.74		3.1	2.6	
5/10/2022	16:12:57		Middle	4.5	28.5	33.9 34.0	34.1	6.07	6.08	6.08	94.6 94.5	94.7	0.81	0.83	0.90	2.0	2.7	2.2
		/ Fine	Bottom	9.1	28.5	34.1 34.3 34.4	34.3	6.09 6.15 6.18	6.17	6.17	94.8 95.9 96.4	96.1	0.85	1.15		3.1	1.3	
		20	Surface	1.0	28.5	29.9	29.8	6.34	6.32		96.2	95.9	1.16	2.00		1.4 1.6	1.4	
7/10/2022	17:10:41	30	Middle	4.8	28.5	29.8 29.8	29.8	6.29 6.14	6.14	6.23	95.6 93.3	93.3	1.99 2.13	2.16	2.19	1.1	1.6	1.4
		/ Fine	Bottom	9.6	28.5	29.8 29.9	29.9	6.13 6.07	6.07	6.07	93.2 92.3	92.3	2.18	2.43		1.7 1.3	1.2	
			Surface	1.0	28.1	29.9 30.1	30.1	6.07 6.45	6.45		92.2 97.6	97.6	2.43	2.98		1.1	1.9	
10/10/2022	17:33:20	29	Middle	5.1	28.1	30.1 30.1	30.1	6.45 6.43	6.43	6.44	97.6 97.3	97.3	2.97 3.12	3.12	3.16	2.2	1.5	1.8
		/ Fine	Bottom	10.1	28.1	30.1 30.1	30.1	6.42 6.37	6.37	6.37	97.2 96.4	96.3	3.11 3.39	3.38		1.7 1.3	1.9	
			Surface	1.0	27.6	30.1 35.0	35.0	6.36 6.28	6.28		96.2 96.8	96.8	3.37	1.03		2.5	1.4	
12/10/2022	10:37:09	29	Middle	4.9	27.6	35.0 35.0	35.0	6.28 6.28	6.28	6.28	96.8 96.8	96.8	1.03 1.04	1.05	1.07	1.5 1.2	1.5	1.6
		/ Fine	Bottom	9.8	27.6	35.0 35.0	35.0	6.28 6.26	6.26	6.26	96.8 96.6	96.6	1.06	1.14		1.7 2.5	1.8	
			Surface	1.0	27.4	35.0 30.1	30.1	6.26 6.22	6.22		96.6 93.1	93.1	1.16 2.63	2.62		1.1 1.7	1.7	
14/10/2022	10:28:56	28	Middle	4.7	27.4	30.1 30.1	30.1	6.21 6.18	6.18	6.20	93.0 92.5	92.5	2.61 3.27	3.25	3.31	1.7 1.5	1.6	1.6
		/ Fine	Bottom	9.3	27.4	30.1 30.1	30.1	6.17 6.14	6.14	6.14	92.4 91.9	91.9	3.22 4.06	4.07		1.6 1.7	1.7	
			Surface	1.0	25.7	30.1 30.5	30.5	6.14 6.65	6.62		91.8 96.9	96.5	4.08 2.79	2.75		1.6 5.1	4.2	
20/10/2022	16:16:07	27	Middle	5.0	25.8	30.5 30.5	30.5	6.59 6.39	6.38	6.50	96.1 93.2	93.1	2.71 2.56	2.57	3.00	3.2 2.3	2.4	2.7
		/ Fine	Bottom	10.0	25.8	30.5 30.5	30.5	6.37 6.33	6.33	6.33	92.9 92.3	92.3	2.58	3.67		2.5	1.6	
			Surface	1.0	25.4	30.5 30.4	30.3	6.33 6.61	6.59		92.2 95.7	95.4	3.71 2.76	2.77		1.8	1.1	
22/10/2022	16:43:13	27	Middle	4.7	25.6	30.3 30.3	30.3	6.56 6.43	6.40	6.49	95.1 93.4	93.0	2.77 2.93	2.94	2.93	1.0 1.4	1.5	1.3
		/ Fine	Bottom	9.4	25.6	30.4 30.5	30.5	6.37 6.28	6.28	6.28	92.6 91.3	91.3	2.95 3.06	3.07	-	1.6	1.4	
			Surface	1.0	25.6	30.5 30.6	30.6	6.28 6.54	6.53		91.2 95.1	94.9	3.08 2.83	2.84		1.6 5.9	4.7	
24/10/2022	17:11:28	27	Middle	4.9	25.6	30.6 30.6	30.6	6.51 6.33	6.33	6.43	94.7 92.1	92.1	2.84 2.92	2.90	2.86	3.5 3.5	3.6	3.8
		/ Fine	Bottom	9.8	25.6	30.6 30.6	30.6	6.32 6.30	6.30	6.30	92.0 91.7	91.7	2.88 2.86	2.86	-	3.6 3.0	3.1	
			Surface	1.0	24.7	30.6 31.1	31.0	6.30 6.88	6.85		91.7 98.7	98.5	2.85 2.43	2.45		3.2 2.3	1.9	
26/10/2022	17:41:22	26	Middle	4.6	25.1	30.9 30.8	30.8	6.82 6.72	6.71	6.78	98.2 97.0	96.8	2.46 2.35	2.35	2.49	1.4 1.6	1.6	1.6
		/ Fine	Bottom	9.1	25.1	30.8 30.8	30.8	6.69 6.63	6.63	6.63	96.5 95.7	95.7	2.34 2.67	2.68		1.5 1.4	1.4	
			Surface	1.0	25.0	30.8 30.7	30.7	6.63 6.58	6.57	-	95.7 94.8	94.7	2.68 3.69	3.68		1.4 7.2	6.8	
28/10/2022	10:30:50	26	Middle	4.4	25.0	30.7 30.7	30.7	6.55 6.52	6.52	6.54	94.5 93.9	93.9	3.67 3.59	3.58	3.54	6.4 1.5	2.2	3.5
		/ Fine	Bottom	8.8	25.0	30.7 30.7	30.7	6.51 6.49	6.49	6.49	93.8 93.6	93.6	3.56 3.39	3.37		2.8 1.1	1.5	
		<u> </u>	Doutin	0.0	20.0	30.7	00.7	6.49	0.40	0.40	93.5	55.0	3.35	0.07		1.8	1.5	

Monitoring Station : TKO-C1



Monitoring						Colinit	hu (nat)	Disselu		- (mg/l.)	Dissolve	d Oxygen	т.	ushidity (NIT	10	Sugar	nded Solids	- (mg/l.)
Date	Time	Ambient Temp (°C) / Weather	Monitorir (r		Temp (°C)		ty (ppt)		ed Oxyger	Depth-		tion (%)		urbidity (NT	Depth-		1	Depth-
		Condition				Value 33.9	Average	Value 6.04	Average	average	Value 93.6	Average	Value 1.42	Average	average	Value 1.3	Average	average
		29	Surface	1.0	28.3	33.9	33.9	6.04	6.04	6.09	93.6	93.6	1.42	1.42		1.7	1.5	
3/10/2022	8:33:05		Middle	10.2	28.2	34.2 34.2	34.2	6.13 6.16	6.15		95.1 95.5	95.3	1.81 1.85	1.83	1.73	1.8 2.9	2.4	2.0
		/ Fine	Bottom	20.4	28.2	34.5 34.5	34.5	6.31 6.35	6.33	6.33	98.0 98.6	98.3	1.91 1.99	1.95		3.4 1.1	2.3	
			Surface	1.0	28.4	34.0	34.0	6.23	6.23		96.8	96.8	0.73	0.74		2.2	3.5	
E (10/0000	0.10.05	29	Malalla	10.0	28.4	34.0 34.6	04.0	6.23 6.44	6.44	6.33	96.8 100.4	100.3	0.74 1.33	1.00	1.38	4.7 3.1		
5/10/2022	9:16:05	/ Fine	Middle	10.2	20.4	34.5 34.9	34.6	6.43 6.55	6.44		100.2 102.1	100.3	1.39 2.02	1.36	1.30	2.9 3.0	3.0	3.1
		,	Bottom	20.4	28.3	35.0	35.0	6.56	6.56	6.56	102.3	102.2	2.06	2.04		2.7	2.9	
		29	Surface	1.0	28.4	29.9 29.9	29.9	6.43 6.38	6.41	6.23	97.7 96.9	97.3	1.67 1.64	1.66		1.6 2.8	2.2	
7/10/2022	9:30:50		Middle	10.6	28.5	29.9 29.9	29.9	6.07 6.05	6.06	0.23	92.3 92.0	92.2	2.29 2.31	2.30	2.15	1.2 1.2	1.2	1.8
		/ Fine	Bottom	21.3	28.5	30.0	30.0	6.00	6.00	6.00	91.3	91.3	2.49	2.51		1.9	1.9	
			Surface	1.0	28.1	30.0 30.0	30.0	6.00 6.43	6.42		91.3 97.2	97.1	2.52 2.86	2.86		1.8 3.4	4.3	
		29				30.0 30.0		6.41 6.37		6.39	97.0 96.4		2.86 2.83			5.1 2.1		
10/10/2022	11:00:30		Middle	10.6	28.1	30.0	30.0	6.36	6.37		96.3	96.4	2.85	2.84	2.89	2.1	2.1	3.3
		/ Fine	Bottom	21.1	28.1	30.1 30.1	30.1	6.32 6.31	6.32	6.32	95.6 95.5	95.6	2.95 2.97	2.96		4.1 2.8	3.5	
		29	Surface	1.0	27.6	35.0 35.0	35.0	6.29 6.29	6.29		96.9 97.0	97.0	0.99	1.01		1.1	1.1	
12/10/2022	13:00:10		Middle	10.5	27.6	35.0 35.0	35.0	6.28 6.27	6.28	6.28	96.8 96.7	96.8	1.14	1.14	1.12	1.3	1.4	1.3
		/ Fine	Bottom	21.0	27.6	35.1	35.1	6.29	6.29	6.29	96.7 96.9	97.0	1.14 1.22	1.22		1.4 1.7	1.5	
						35.1 30.1		6.29 6.23			97.0 93.2		1.22 2.23			1.3 2.1		
		28	Surface	1.0	27.4	30.1 30.2	30.1	6.22 6.18	6.23	6.20	93.1 92.4	93.2	2.26 3.15	2.25		2.8 2.0	2.5	
14/10/2022	14:05:04		Middle	9.8	27.4	30.2	30.2	6.17	6.18		92.4	92.4	3.17	3.16	2.93	2.9	2.5	2.2
		/ Fine	Bottom	19.6	27.4	30.2 30.2	30.2	6.14 6.14	6.14	6.14	91.9 91.8	91.9	3.36 3.43	3.40		1.4 1.9	1.7	
		27	Surface	1.0	25.7	30.5 30.6	30.5	6.69 6.64	6.67		97.5 96.8	97.2	2.72 2.68	2.70		1.8 1.7	1.8	
20/10/2022	9:04:36		Middle	10.6	25.7	30.6 30.6	30.6	6.40 6.40	6.40	6.53	93.2 93.3	93.3	3.23 3.24	3.24	3.16	4.1	3.3	2.8
		/ Fine	Bottom	21.2	25.7	30.6	30.6	6.35	6.35	6.35	92.6	92.6	3.55	3.54		1.9	3.3	
						30.6 30.1		6.35 6.63		0.00	92.5 96.4		3.52 3.44			4.7 1.0		
		27	Surface	1.0	25.7	30.1 30.4	30.1	6.58 6.39	6.61	6.49	95.7 92.8	96.1	3.42 3.68	3.43		1.0 1.5	1.0	
22/10/2022	9:31:14		Middle	10.9	25.6	30.4	30.4	6.37	6.38		92.5	92.7	3.59	3.64	3.68	1.6	1.6	1.3
		/ Fine	Bottom	21.7	25.6	30.5 30.5	30.5	6.28 6.28	6.28	6.28	91.3 91.3	91.3	3.95 3.97	3.96		1.2 1.4	1.3	
		27	Surface	1.0	25.6	30.6 30.6	30.6	6.72 6.69	6.71		97.7 97.2	97.5	3.04 3.07	3.06		3.2 4.3	3.8	
24/10/2022	10:31:32		Middle	10.7	25.5	30.7	30.7	6.48	6.48	6.59	94.2	94.2	3.57	3.54	3.52	4.2	4.4	3.9
		/ Fine	Bottom	21.3	25.5	30.7 30.7	30.7	6.47 6.40	6.40	6.40	94.1 93.1	93.1	3.50 3.96	3.98		4.6 4.2	3.6	
						30.7 30.8		6.40 6.86		0.40	93.1 99.0		3.99 3.30			3.0 1.9		
		26	Surface	1.0	25.1	30.8	30.8	6.83	6.85	6.77	98.6	98.8	3.28	3.29		1.6	1.8	
26/10/2022	11:31:47		Middle	10.7	25.1	30.8 30.8	30.8	6.69 6.69	6.69		96.5 96.5	96.5	3.34 3.28	3.31	3.57	1.7 2.5	2.1	1.9
		/ Fine	Bottom	21.3	25.0	30.9 30.9	30.9	6.64 6.64	6.64	6.64	95.9 95.8	95.9	4.13 4.07	4.10		2.5 1.3	1.9	
		26	Surface	1.0	24.9	30.8	30.7	6.66	6.64		95.8	95.6	3.44	3.44		2.0	2.2	
28/10/2022	13:00:15	20	Middle	9.8	25.0	30.7 30.7	30.7	6.62 6.50	6.50	6.57	95.4 93.7	93.6	3.44 3.52	3.53	3.55	2.4 1.0	1.0	2.6
		/ Fine				30.7 30.7		6.49 6.47		6.40	93.5 93.3		3.54 3.65		2.00	1.0 3.5		
			Bottom	19.6	25.0	30.7	30.7	6.48	6.48	6.48	93.3	93.3	3.72	3.69		5.9	4.7	

Monitoring Station : TKO-M4



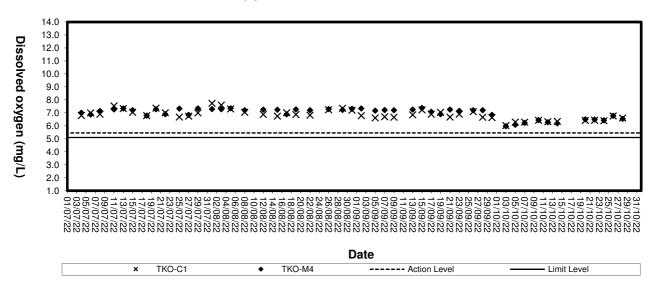
Monitoring	Station :										Dissolve	d Oxygen	-		\ 			
Date	Time	Ambient Temp (°C) / Weather	Monitoring I	Depth (m)	Temp	Salini	ty (ppt)	Dissolv	ved Oxyger			tion (%)	Τι	urbidity (NT		Susper	nded Solids	1
		Condition	_		(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		29	Surface	1.0	28.3	33.9 33.9	33.9	5.98 5.97	5.98	5.99	92.7 92.6	92.6	1.51 1.54	1.53		3.3 4.3	3.8	
3/10/2022	9:35:56		Middle	5.1	28.3	34.1 34.1	34.1	5.99 6.01	6.00	5.99	93.0 93.3	93.1	1.82 1.75	1.79	1.78	1.6 1.2	1.4	2.1
		/ Fine	Bottom	10.2	28.2	34.2	- 34.3	6.09	6.10	6.10	94.4	94.6	2.02	2.04		1.2	1.2	1
						34.3 34.1		6.11 6.23		0.10	94.8 97.0	1	2.05 0.88			1.4 4.1		
		29	Surface	1.0	28.5	34.1	34.1	6.23	6.23	6.26	97.0	97.0	0.84	0.86		5.6	4.9	
5/10/2022	10:24:05		Middle	4.6	28.5	34.3 34.3	34.3	6.28 6.29	6.29		97.9 98.0	98.0	1.19 1.14	1.17	1.09	1.3 2.1	1.7	2.8
		/ Fine	Bottom	9.3	28.4	34.4 34.4	34.4	6.31 6.32	6.32	6.32	98.3 98.4	98.4	1.23 1.24	1.24		2.0 1.8	1.9	
		30	Surface	1.0	28.5	29.8 29.8	29.8	6.31 6.30	6.31		96.0 95.7	95.9	1.93 1.90	1.92		2.1 1.5	1.8	
7/10/2022	10:40:39		Middle	4.5	28.5	29.8	29.8	6.24	6.24	6.27	94.8	94.8	1.97	1.96	2.17	1.0	1.0	1.5
		/ Fine	Bottom	9.0	28.5	29.8 29.9	29.9	6.23 6.06	6.06	6.06	94.7 92.2	92.2	1.95 2.62	2.65		1.0 1.7	1.7	
			Bottom	5.0	20.0	29.9 30.1	29.9	6.06 6.42	0.00	0.00	92.1 97.2	92.2	2.67 2.78	2.05		1.7 3.3	1.7	
		29	Surface	1.0	28.1	30.1	30.1	6.42	6.42	6.41	97.2	97.2	2.75	2.77		2.1	2.7	
10/10/2022	12:02:19		Middle	5.1	28.1	30.1 30.1	30.1	6.41 6.40	6.41		97.0 96.9	97.0	2.89 2.89	2.89	2.90	2.8 1.8	2.3	2.3
		/ Fine	Bottom	10.1	28.1	30.1 30.1	30.1	6.37 6.36	6.37	6.37	96.4 96.3	96.4	3.06 3.03	3.05		2.4 1.4	1.9	
		29	Surface	1.0	27.6	35.0 35.0	35.0	6.29 6.29	6.29		97.0 97.0	97.0	1.05	1.04		1.0	1.1	
12/10/2022	14:37:21	25	Middle	4.9	27.6	35.0	35.0	6.29	6.29	6.29	96.9	96.9	1.05	1.05	1.05	1.3	1.3	1.1
		/ Fine	Bottom	9.9	27.6	35.0 35.0	35.0	6.29 6.28	6.28	6.28	96.9 96.8	96.8	1.05 1.07	1.07		1.3 1.0	1.0	1
			Surface	1.0	27.4	35.0 30.1	30.1	6.28 6.22	6.22		96.8 93.1	93.1	1.06 2.25	2.24		1.0 2.9	2.8	
1 1/1 0/0000	15 00 50	28				30.1 30.1		6.22 6.21		6.22	93.1 92.9		2.23 2.77		0.00	2.7 1.5		
14/10/2022	15:28:58	/ Fine	Middle	4.3	27.4	30.1 30.1	30.1	6.21 6.21	6.21		92.9 92.9	92.9	2.79 2.81	2.78	2.63	1.7 2.7	1.6	2.2
			Bottom	8.7	27.4	30.1 30.5	30.1	6.20 6.64	6.21	6.21	92.9 96.8	92.9	2.90 2.51	2.86		1.7	2.2	
		27	Surface	1.0	25.8	30.5 30.5	30.5	6.60 6.36	6.62	6.49	96.2 92.7	96.5	2.53	2.52		3.5	3.0	
20/10/2022	10:13:11		Middle	4.2	25.8	30.5	30.5	6.35	6.36		92.6	92.7	3.25	3.26	3.13	2.3 2.8	2.6	2.6
		/ Fine	Bottom	8.5	25.8	30.5 30.5	30.5	6.33 6.33	6.33	6.33	92.3 92.3	92.3	3.59 3.63	3.61		2.7 1.8	2.3	
		27	Surface	1.0	25.7	30.1 30.1	30.1	6.62 6.57	6.60		96.1 95.5	95.8	3.26 3.28	3.27		1.5 1.0	1.3	-
22/10/2022	10:41:20	21	Middle	4.3	25.7	30.2	- 30.3	6.41	6.39	6.49	93.2	92.9	3.47	3.49	3.54	1.8	1.4	1.3
		/ Fine	Bottom	8.5	25.6	30.3 30.4	- 30.4	6.37 6.29	6.29	6.29	92.6 91.4	91.3	3.50 3.88	3.87		1.0 1.6	1.4	
						30.4 30.6		6.28 6.57		0.29	91.2 95.6		3.85 2.73			1.1 4.3		
		27	Surface	1.0	25.6	30.6 30.6	30.6	6.54 6.36	6.56	6.46	95.1 92.6	95.4	2.79 3.34	2.76		2.3	3.3	
24/10/2022	11:41:21		Middle	4.3	25.6	30.6	30.6	6.36	6.36		92.4	92.5	3.31	3.33	3.24	5.1	4.3	3.7
		/ Fine	Bottom	8.6	25.6	30.6 30.6	30.6	6.32 6.31	6.32	6.32	91.9 91.8	91.9	3.63 3.64	3.64		4.2 2.8	3.5	
		26	Surface	1.0	24.9	30.9 30.8	30.8	6.81 6.77	6.79	0.70	97.9 97.6	97.8	3.37 3.34	3.36		1.0 1.2	1.1	
26/10/2022	12:40:13		Middle	4.1	25.1	30.8 30.8	30.8	6.67 6.66	6.67	6.73	96.2 96.1	96.2	3.56 3.54	3.55	3.44	1.1 3.8	2.5	2.0
		/ Fine	Bottom	8.1	25.1	30.8 30.8	30.8	6.65 6.65	6.65	6.65	96.0 95.9	96.0	3.40 3.44	3.42		2.6 2.3	2.5	
		~	Surface	1.0	25.0	30.7	30.7	6.69	6.67		96.4	96.2	3.57	3.60		1.1	1.7	
28/10/2022	14:30:18	26	Middle	4.5	25.0	30.7 30.7	30.7	6.65 6.51	6.51	6.59	95.9 93.9	93.9	3.62 3.65	3.66	3.48	2.2 1.0	1.0	1.7
20,10/2022	14.00.10	/ Fine				30.7 30.7		6.51 6.48		0.10	93.8 93.5		3.66 3.20		0.70	1.0 1.2		
			Bottom	9.0	25.0	30.7	30.7	6.48	6.48	6.48	93.4	93.5	3.15	3.18		3.6	2.4	



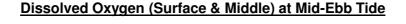
Appendix D3

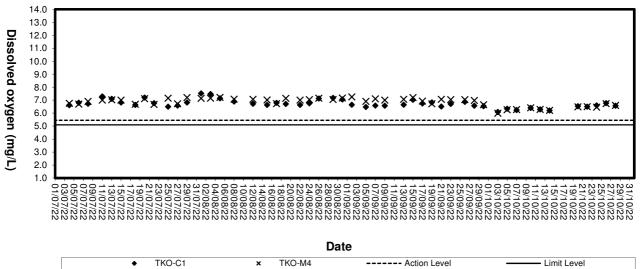
Graphical Plots of Impact Marine Water Quality Monitoring Data



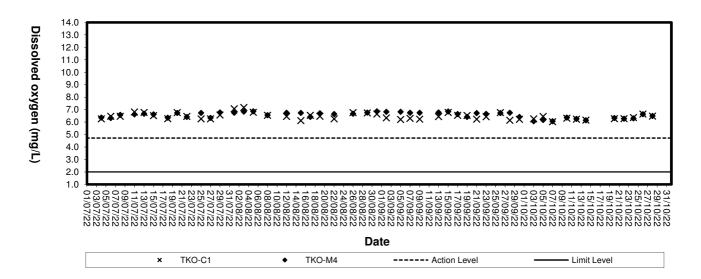


Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



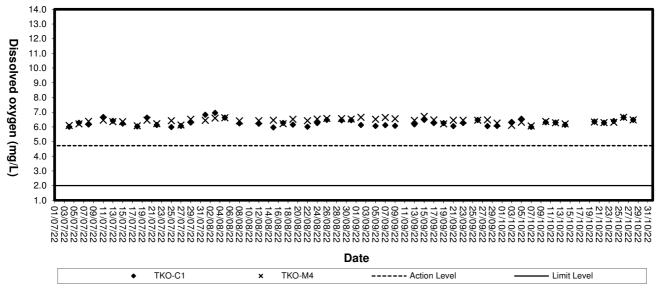




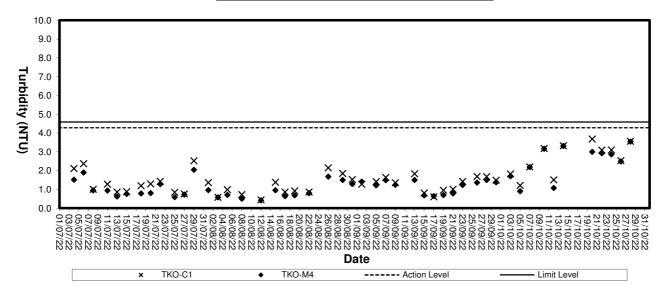


Dissolved Oxygen (Bottom) at Mid-Flood Tide



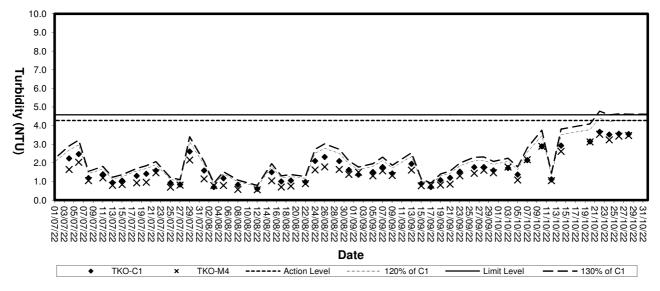




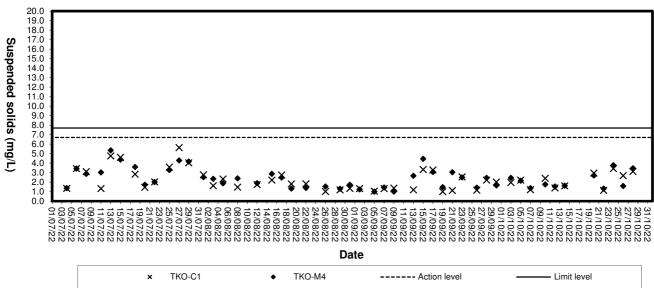


Turbidity (Depth-average) at Mid-Flood Tide

Turbidity(Depth-average) at Mid-Ebb Tide

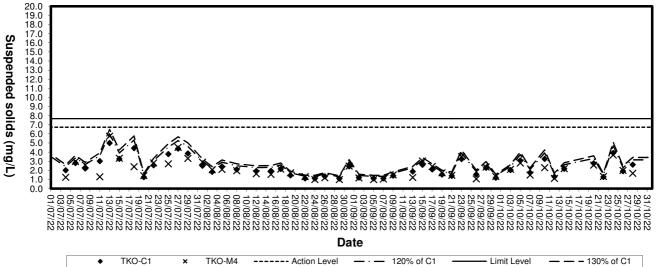






Suspended solids (Depth-average) at Mid-Flood Tide

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





Appendix D4

Impact Marine Water Quality Monitoring Results (3RS Project)

Monitoring Station : TKO-C1a



Monitoring	Station .	TKO-C1a													`			
Date	Time	Ambient Temp (°C) / Weather		ng Depth	Temp	Salinit	ty (ppt)	Dissolv	ved Oxyger			d Oxygen tion (%)	Τι	urbidity (NT		Susper	nded Solids	
		Condition	(1	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		29	Surface	1.0	28.3	33.9 33.9	33.9	5.95 5.95	5.95	5.98	92.3 92.3	92.3	1.50 1.49	1.50		3.0 1.5	2.3	
3/10/2022	14:15:55		Middle	9.6	28.3	34.1 34.2	34.2	5.99 6.02	6.01	0.00	93.0 93.4	93.2	1.99 2.05	2.02	1.91	1.2 2.3	1.8	1.8
		/ Fine	Bottom	19.3	28.2	34.5 34.5	34.5	6.26 6.30	6.28	6.28	97.2 97.8	97.5	2.24 2.21	2.23		1.1 1.5	1.3	
		29	Surface	1.0	28.5	33.9	33.9	6.35	6.33		98.8	98.4	0.81	0.83		1.1	1.2	
5/10/2022	15:22:08		Middle	11.1	28.5	33.9 34.3	34.3	6.30 6.25	6.26	6.29	98.0 97.4	97.6	0.84 1.17	1.20	1.23	1.3 2.3	2.6	2.9
		/ Fine	Bottom	22.2	28.4	34.4 34.6	34.6	6.27 6.34	6.35	6.35	97.8 98.8	99.0	1.22 1.66	1.67		2.9 4.6	4.8	
			Surface	1.0	28.5	34.6 29.9	29.9	6.36 6.27	6.26		99.2 95.3	95.2	1.68 1.83	1.84		4.9 1.3	1.4	
7/10/2022	16:17:44	30	Middle	10.8	28.5	29.9 29.9	29.9	6.25 6.11	6.10	6.18	95.1 92.9	92.8	1.85 2.21	2.24	2.25	1.4 1.4	1.4	1.6
TTOLOLL	10.17.44	/ Fine	Bottom	21.6	28.5	29.9 30.0	30.0	6.09 5.99	5.99	5.99	92.7 91.1	91.1	2.26 2.66	2.67	2.20	1.3 2.0	2.0	1.0
						30.0 30.1		5.99 6.43		5.99	91.1 97.3		2.68 2.93			2.0 1.4		
		29	Surface	1.0	28.1	30.1 30.1	30.1	6.43 6.41	6.43	6.42	97.3 97.0	97.3	2.93 3.10	2.93		2.5 3.8	2.0	
10/10/2022	16:47:22		Middle	9.7	28.1	30.1	30.1	6.40	6.41		96.9	97.0	3.15	3.13	3.22	4.5	4.2	2.9
		/ Fine	Bottom	19.4	28.1	30.1 30.1	30.1	6.34 6.33	6.34	6.34	96.0 95.8	95.9	3.62 3.61	3.62		1.9 3.2	2.6	
		29	Surface	1.0	27.6	35.0 35.0	35.0	6.29 6.29	6.29	6.28	97.0 97.0	97.0	1.25 1.28	1.27		2.4 2.2	2.3	
12/10/2022	9:26:05		Middle	10.0	27.6	35.0 35.0	35.0	6.27 6.27	6.27		96.8 96.7	96.8	1.22 1.20	1.21	1.47	1.2 1.0	1.1	1.7
		/ Fine	Bottom	20.0	27.6	35.1 35.1	35.1	6.23 6.23	6.23	6.23	96.1 96.1	96.1	1.92 1.96	1.94		1.8 1.3	1.6	
		28	Surface	1.0	27.4	30.1 30.1	30.1	6.21 6.20	6.21	6.20	92.9 92.8	92.9	2.75 2.79	2.77		1.6 1.6	1.6	
14/10/2022	9:30:04		Middle	10.7	27.4	30.1 30.1	30.1	6.19 6.18	6.19	0.20	92.6 92.5	92.6	3.65 3.64	3.65	3.50	2.3 1.4	1.9	1.8
		/ Fine	Bottom	21.4	27.4	30.1 30.1	30.1	6.13 6.13	6.13	6.13	91.7 91.7	91.7	4.12 4.07	4.10		2.4 1.2	1.8	
		27	Surface	1.0	25.7	30.6 30.5	30.6	6.38 6.36	6.37		92.9 92.7	92.8	2.45 2.46	2.46		2.3 1.9	2.1	
20/10/2022	15:17:10		Middle	9.7	25.8	30.5 30.5	30.5	6.29 6.28	6.29	6.33	91.7 91.6	91.7	2.65 2.74	2.70	2.77	5.2	3.9	3.3
		/ Fine	Bottom	19.5	25.7	30.6 30.6	30.6	6.34 6.34	6.34	6.34	92.5 92.4	92.5	3.14 3.15	3.15		2.3	4.0	
		27	Surface	1.0	25.6	30.2 30.1	30.2	6.50 6.46	6.48		94.4 94.0	94.2	2.71	2.72		1.2 1.1	1.2	
22/10/2022	15:50:18		Middle	10.1	25.6	30.5	30.5	6.27	6.27	6.38	91.1	91.1	2.89	2.92	2.92	1.1	1.1	1.5
		/ Fine	Bottom	20.2	25.6	30.5 30.6	30.6	6.27 6.27	6.27	6.27	91.1 91.2	91.2	2.94 3.13	3.14		1.0	2.2	
			Surface	1.0	25.6	30.6 30.6	30.6	6.27 6.59	6.57		91.2 95.7	95.5	3.14 2.70	2.71		2.5 2.8	3.0	
24/10/2022	16:18:17	27	Middle	10.7	25.5	30.6 30.6	30.6	6.55 6.36	6.36	6.46	95.3 92.5	92.4	2.71 2.79	2.79	2.98	3.1 2.5	3.0	3.3
		/ Fine	Bottom	21.5	25.6	30.6 30.7	30.7	6.35 6.35	6.35	6.35	92.3 92.4	92.4	2.79 3.44	3.44		3.5 3.5	4.0	
			Surface	1.0	25.0	30.7 30.9	30.9	6.35 6.84	6.83		92.4 98.6	98.5	3.43 2.66	2.67		4.5 1.2	1.4	<u> </u>
26/10/2022	16:46:13	26	Middle	10.6	25.0	30.8 30.8	30.9	6.81 6.70	6.70	6.76	98.3 96.8	96.8	2.68 2.79	2.80	2.89	1.5 1.0	2.0	2.0
20/10/2022	10.40.13	/ Fine				30.8 30.8		6.70 6.66		6.00	96.7 96.2		2.80 3.23		2.09	2.9 3.3		2.0
			Bottom	21.3	25.0	30.8 31.0	30.8	6.66 6.80	6.66	6.66	96.0 97.4	96.1	3.20 3.51	3.22		1.9 1.1	2.6	<u> </u>
		26	Surface	1.0	24.6	30.8 30.7	30.9	6.73 6.55	6.77	6.65	96.7 94.4	97.1	3.58	3.55		1.9 1.3	1.5	
28/10/2022	9:23:16	/ Fine	Middle	10.0	25.0	30.7	30.7	6.52	6.54		93.9	94.2	3.54	3.54	3.64	2.7	2.0	1.5
		/ 1-1110	Bottom	20.0	25.0	30.7 30.7	30.7	6.47 6.47	6.47	6.47	93.3 93.3	93.3	3.81 3.86	3.84		1.0 1.0	1.0	

Monitoring Station : TKO-M4a



Date	Time	Ambient Temp (°C) / Weather	Monitorir		Temp	Salinit	ty (ppt)	Dissolv	red Oxyger	n (mg/L)		d Oxygen tion (%)	Tu	urbidity (NT		Susper	nded Solids	
Dato		Condition	(n	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		29	Surface	1.0	28.3	34.0 33.9	33.9	5.95 5.94	5.95		92.3 92.1	92.2	1.51 1.50	1.51		2.4 1.3	1.9	
3/10/2022	14:31:56	23	Middle	7.7	28.3	34.1	34.1	5.97	5.99	5.97	92.7	92.9	1.73	1.77	1.85	1.5	2.1	1.7
		/ Fine				34.2 34.3		6.00 6.13			93.2 95.1		1.81 2.30			2.7		
			Bottom	15.5	28.2	34.4	34.4	6.16	6.15	6.15	95.6	95.4	2.27	2.29		1.0	1.1	
		29	Surface	1.0	28.5	33.8 33.8	33.8	6.10 6.10	6.10		94.8 94.8	94.8	0.71	0.72		1.7 3.1	2.4	
5/10/2022	15:45:59		Middle	10.6	28.5	34.1	34.1	6.10	6.12	6.11	95.0	95.2	1.01	1.05	1.19	2.9	2.4	2.2
		/ Fine	Dettern	21.2	28.4	34.2 34.6	04.0	6.13 6.28	6.00	6.30	95.5 97.9	98.2	1.09 1.78	1.01		1.9 2.0	1.7	
			Bottom	21.2	20.4	34.7 29.8	34.6	6.32 6.41	6.30	0.30	98.6 97.4	90.2	1.83 1.73	1.81		1.3 1.5	1.7	
		30	Surface	1.0	28.5	29.8	29.8	6.31	6.36	6.26	95.8	96.6	1.73	1.76		1.2	1.4	
7/10/2022	16:35:42		Middle	10.2	28.5	29.9 29.9	29.9	6.16 6.14	6.15	0.20	93.7 93.4	93.6	2.24 2.26	2.25	2.29	1.1 1.0	1.1	1.3
		/ Fine	Bottom	20.5	28.5	29.9	29.9	6.03	6.03	6.03	91.7	91.7	2.89	2.88		1.7	1.4	
						29.9 30.1		6.02 6.45	-		91.6 97.5		2.86 2.90			1.1 4.1		
		29	Surface	1.0	28.1	30.1	30.1	6.45	6.45	6.43	97.5	97.5	2.90	2.90		1.3	2.7	
10/10/2022	17:01:27		Middle	7.7	28.1	30.1 30.1	30.1	6.42 6.41	6.42		97.2 97.0	97.1	2.99 3.00	3.00	3.09	1.2 1.6	1.4	2.2
		/ Fine	Bottom	15.4	28.1	30.1 30.1	30.1	6.37 6.36	6.37	6.37	96.5 96.3	96.4	3.37 3.36	3.37		2.4 2.5	2.5	
			Surface	1.0	27.6	35.0	35.0	6.29	6.29		97.0	97.0	1.20	1.21		2.0	2.0	
		29				35.0 35.0		6.29 6.27		6.28	97.0 96.7		1.21 1.24			1.9 1.5		
12/10/2022	9:51:05		Middle	10.1	27.6	35.0	35.0	6.27	6.27		96.7	96.7	1.25	1.25	1.37	2.5	2.0	1.8
		/ Fine	Bottom	20.2	27.6	35.1 35.1	35.1	6.23 6.23	6.23	6.23	96.2 96.2	96.2	1.65 1.65	1.65		1.7 1.4	1.6	
		28	Surface	1.0	27.4	30.1 30.1	30.1	6.22 6.22	6.22		93.1 93.1	93.1	2.76 2.77	2.77		1.6 3.9	2.8	
14/10/2022	9:52:02	20	Middle	10.4	27.4	30.1	30.1	6.19	6.19	6.20	92.6	92.6	3.45	3.47	3.43	2.5	2.8	2.3
		/ Fine	Pottom	20.7	07.4	30.1 30.1	20.1	6.18 6.17	6.17	6.17	92.5 92.4	02.4	3.48 4.03	4.06		3.0 1.1	1.4	
			Bottom	20.7	27.4	30.1 30.5	30.1	6.17 6.54	0.17	0.17	92.3 95.4	92.4	4.09 2.35	4.06		1.6 3.8	1.4	
		27	Surface	1.0	25.7	30.5	30.5	6.52	6.53	6.44	95.0	95.2	2.36	2.36		3.9	3.9	
20/10/2022	15:34:10		Middle	9.8	25.8	30.5 30.5	30.5	6.35 6.34	6.35	••••	92.6 92.5	92.6	2.68 2.76	2.72	2.72	2.2	2.0	2.8
		/ Fine	Bottom	19.6	25.8	30.6	30.6	6.32	6.32	6.32	92.1	92.1	3.09	3.10		3.2	2.5	
						30.6 30.2		6.32 6.36	-		92.1 92.5		3.10 2.58			1.7 1.1		
		27	Surface	1.0	25.7	30.2	30.2	6.34	6.35	6.31	92.2	92.4	2.62	2.60		1.0	1.1	
22/10/2022	16:07:26		Middle	9.7	25.6	30.4 30.5	30.4	6.28 6.27	6.28		91.2 91.1	91.2	2.79 2.83	2.81	2.82	1.2 1.2	1.2	1.1
		/ Fine	Bottom	19.3	25.6	30.6 30.6	30.6	6.27 6.27	6.27	6.27	91.2 91.2	91.2	3.05 3.05	3.05		1.2 1.1	1.2	
			Surface	1.0	25.3	30.8	30.7	6.64	6.61		96.1	95.8	2.61	2.62		3.3	2.9	
		27				30.7 30.6		6.57 6.35		6.48	95.5 92.4		2.63 2.73			2.4 5.6		
24/10/2022	16:31:14	(Fire	Middle	10.0	25.6	30.6	30.6	6.34	6.35		92.2	92.3	2.79	2.76	2.84	4.0	4.8	3.9
		/ Fine	Bottom	19.9	25.6	30.7 30.7	30.7	6.31 6.31	6.31	6.31	91.8 91.8	91.8	3.12 3.14	3.13		4.6 3.2	3.9	
		26	Surface	1.0	25.0	30.8 30.8	30.8	6.75 6.73	6.74		97.3 97.1	97.2	2.55 2.51	2.53		1.5 1.4	1.5	
26/10/2022	17:05:12		Middle	10.2	25.0	30.8	30.8	6.67	6.67	6.71	96.2	96.3	2.64	2.65	2.78	1.2	1.4	1.7
		/ Fine	D	00.4	05.0	30.8 30.8		6.67 6.65	0.05	0.05	96.3 95.9	05.0	2.66 3.18	0.47		1.5 1.5		
			Bottom	20.4	25.0	30.9	30.8	6.64	6.65	6.65	95.8	95.9	3.16	3.17		2.8	2.2	
		26	Surface	1.0	24.6	30.9 30.9	30.9	6.76 6.70	6.73	6.62	96.8 96.1	96.5	3.24 3.28	3.26		1.9 2.1	2.0	
28/10/2022	9:45:15		Middle	9.2	25.1	30.7 30.7	30.7	6.53 6.50	6.52	0.0∠	94.1 93.6	93.9	3.37 3.41	3.39	3.39	2.9 2.7	2.8	2.5
		/ Fine	Bottom	18.4	25.0	30.7	30.7	6.46	6.46	6.46	93.1	93.1	3.48	3.52		3.3	2.6	
			20110111		20.0	30.7	33.7	6.46	0.40	5.40	93.1	55.1	3.55	0.0L		1.9	2.0	i

Monitoring Station : TKO-M5



		Ambient Temp			Tomp	Salinit	y (ppt)	Dissolv	ed Oxyger	n (mg/L)		d Oxygen tion (%)	Tu	irbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Time	(°C) / Weather Condition	Monitorir (n		Temp (°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		29	Surface	1.0	28.3	34.0 34.0	34.0	5.97 5.97	5.97		92.6 92.6	92.6	1.49 1.49	1.49		1.5 1.3	1.4	
3/10/2022	14:48:56		Middle	7.7	28.2	34.2 34.2	34.2	6.02 6.05	6.04	6.00	93.3 93.8	93.6	1.90	1.97	1.91	1.2	1.2	1.2
		/ Fine	Bottom	15.4	28.2	34.3 34.4	34.3	6.14 6.16	6.15	6.15	95.3 95.6	95.4	2.29	2.26		1.1	1.1	
		29	Surface	1.0	28.5	33.8	33.8	6.10	6.10		94.8	94.8	0.71	0.71		2.5	2.8	
5/10/2022	15:58:57		Middle	7.5	28.5	33.8 34.1 34.2	34.1	6.09 6.11 6.13	6.12	6.11	94.7 95.1 95.5	95.3	0.71 1.01 1.13	1.07	1.17	3.1 1.2 1.9	1.6	2.5
		/ Fine	Bottom	14.9	28.4	34.5 34.6	34.5	6.26 6.28	6.27	6.27	97.6 97.9	97.7	1.69	1.73		4.1	3.1	
		30	Surface	1.0	28.5	29.8 29.8	29.8	6.40 6.36	6.38		97.9 97.3 96.6	97.0	1.77	1.78		1.7 1.6	1.7	
7/10/2022	16:50:37		Middle	7.9	28.5	29.8 29.9 29.9	29.9	6.14	6.13	6.26	93.4	93.3	2.45	2.46	2.37	1.4	1.7	1.6
		/ Fine	Bottom	15.9	28.5	29.9 29.9 29.9	29.9	6.12 6.02 6.02	6.02	6.02	93.1 91.6 91.5	91.6	2.46 2.89 2.87	2.88		1.9 1.7	1.4	
		29	Surface	1.0	28.1	30.1 30.1	30.1	6.44 6.44	6.44		97.4	97.4	2.92 2.95	2.94		1.1	1.9	
10/10/2022	17:16:17	29	Middle	7.6	28.1	30.1	30.1	6.43	6.43	6.43	97.4 97.3	97.3	3.08	3.08	3.12	2.0	2.4	2.3
		/ Fine	Bottom	15.2	28.1	30.1 30.1 30.1	30.1	6.42 6.38 6.37	6.38	6.38	97.2 96.5 96.3	96.4	3.08 3.35 3.33	3.34		2.3 1.3 3.7	2.5	
			Surface	1.0	27.6	35.0 35.0	35.0	6.29 6.29	6.29		97.0	97.0	1.10 1.11	1.11		3.7 1.5 2.6	2.1	
12/10/2022	10:17:11	29	Middle	6.8	27.6	35.0 35.0 35.0	35.0	6.29 6.26 6.26	6.26	6.28	97.0 96.5 96.5	96.5	1.09	1.08	1.11	1.5	1.3	1.7
		/ Fine	Bottom	13.6	27.6	35.0	35.0	6.25	6.25	6.25	96.4	96.4	1.15	1.16		1.1	1.7	
		28	Surface	1.0	27.4	35.0 30.1 30.1	30.1	6.25 6.22 6.23	6.23		96.4 93.1 93.2	93.2	1.16 2.58 2.62	2.60		2.0 1.3 1.9	1.6	
14/10/2022	10:10:08	20	Middle	7.9	27.4	30.1 30.1 30.1	30.1	6.23 6.20 6.18	6.19	6.21	93.2 92.8 92.6	92.7	3.70 3.74	3.72	3.50	2.3	2.1	1.9
		/ Fine	Bottom	15.8	27.4	30.1 30.1 30.1	30.1	6.15 6.15	6.15	6.15	92.0 92.0 92.0	92.0	4.18 4.16	4.17		1.8 1.7 2.3	2.0	
		27	Surface	1.0	25.8	30.1 30.5 30.5	30.5	6.54 6.51	6.53		95.3	95.2	2.08 2.08	2.08		2.1	2.5	
20/10/2022	15:56:13	21	Middle	8.0	25.8	30.5 30.5 30.5	30.5	6.39 6.37	6.38	6.45	95.0 93.1 92.9	93.0	2.08 2.21 2.28	2.25	2.42	2.9 1.3 2.4	1.9	2.8
		/ Fine	Bottom	16.1	25.8	30.6 30.6	30.6	6.34 6.33	6.34	6.34	92.9 92.4 92.4	92.4	2.28 2.93 2.95	2.94		2.4 3.0 4.8	3.9	
		27	Surface	1.0	25.7	30.2 30.2	30.2	6.49 6.47	6.48		94.4 94.0	94.2	2.66	2.68		4.8 1.0 1.0	1.0	
22/10/2022	16:27:15	21	Middle	7.8	25.6	30.2 30.5 30.5	30.5	6.47 6.27 6.27	6.27	6.38	94.0 91.2 91.1	91.2	2.89 2.87 2.89	2.88	2.89	1.0 1.0 1.0	1.0	1.0
		/ Fine	Bottom	15.5	25.6	30.5 30.5	30.5	6.27 6.27	6.27	6.27	91.1 91.1 91.1	91.1	3.12 3.11	3.12		1.0 1.0 1.0	1.0	
		27	Surface	1.0	25.6	30.6 30.6	30.6	6.53 6.50	6.52		95.0 94.5	94.8	2.73	2.73		4.1	4.4	
24/10/2022	16:54:27		Middle	7.8	25.6	30.6 30.6	30.6	6.32 6.32	6.32	6.42	91.9 91.9	91.9	2.84	2.86	2.81	4.0 3.7 5.9	4.8	4.3
		/ Fine	Bottom	15.7	25.6	30.6 30.6	30.6	6.29 6.29	6.29	6.29	91.9 91.5 91.4	91.5	2.87	2.84		4.0 3.7	3.9	
		26	Surface	1.0	24.8	31.0	30.9	6.83	6.81		98.2	98.0	2.56	2.56		1.3	2.2	
26/10/2022	17:23:13	26	Middle	7.6	25.0	30.8 30.8	30.8	6.78 6.66	6.66	6.73	97.8 96.1	96.1	2.55 2.37	2.39	2.47	3.1 2.5	1.8	1.8
		/ Fine	Bottom	15.1	25.0	30.8 30.8	30.8	6.66 6.65	6.66	6.66	96.1 96.0	96.0	2.40 2.49	2.48		1.1	1.3	
		00	Surface	1.0	24.6	30.8 30.9	30.9	6.66 6.73	6.70		96.0 96.4	96.1	2.46 3.54	3.52		1.3	1.2	
28/10/2022	10:08:16	26	Middle	6.3	25.1	30.8 30.7	30.7	6.67 6.50	6.49	6.60	95.8 93.7	93.6	3.50 3.47	3.46	3.44	1.1	2.2	1.8
		/ Fine	Bottom	12.6	25.1	30.7 30.7	30.7	6.48 6.46	6.46	6.46	93.5 93.2	93.2	3.44 3.37	3.35		1.9 1.8	2.0	
		1				30.7		6.46			93.1		3.32	I		2.1		1

Monitoring Station : TKO-C1a



Date	Time	Ambient Temp	Monitorir	ng Depth	Temp	Salini	ty (ppt)	Dissolv	ed Oxyger	n (mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Time	(°C) / Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		29	Surface	1.0	28.3	34.0 34.0	34.0	5.97 5.96	5.97	6.00	92.6 92.4	92.5	1.58 1.58	1.58		2.3 2.3	2.3	
3/10/2022	8:46:57		Middle	9.6	28.3	34.1 34.2	34.2	6.02 6.06	6.04	6.00	93.5 94.0	93.7	1.81 1.86	1.84	1.80	1.6 1.4	1.5	2.1
		/ Fine	Bottom	19.1	28.2	34.4 34.5	34.4	6.24 6.28	6.26	6.26	96.9 97.5	97.2	1.99 1.97	1.98		2.2 3.0	2.6	
		29	Surface	1.0	28.4	34.1 34.1	34.1	6.24 6.23	6.24		97.0 97.0	97.0	0.84 0.84	0.84		1.8 1.3	1.6	
5/10/2022	9:34:59		Middle	10.2	28.4	34.4 34.5	34.4	6.28 6.30	6.29	6.26	97.8 98.2	98.0	1.34	1.33	1.42	1.5	2.1	1.8
		/ Fine	Bottom	20.4	28.4	34.8 34.9	34.8	6.43 6.46	6.45	6.45	100.4 100.7	100.5	2.07	2.10		1.0	1.7	1
		30	Surface	1.0	28.5	29.9 29.9	29.9	6.29 6.28	6.29		95.6 95.5	95.6	1.78	1.77		1.3	1.4	
7/10/2022	9:47:49		Middle	10.2	28.5	29.9 29.9 29.9	29.9	6.15 6.14	6.15	6.22	93.5 93.3	93.4	1.90	1.92	2.16	1.4	1.3	1.5
		/ Fine	Bottom	20.5	28.5	29.9 30.0 30.0	30.0	6.04 6.03	6.04	6.04	93.3 91.8 91.7	91.8	2.76	2.79		1.2	1.7	
			Surface	1.0	28.1	30.0	30.0	6.39	6.40		96.7	96.8	2.81	2.69		1.5	2.1	
10/10/2022	11:15:21	29	Middle	9.6	28.1	30.0 30.1	- 30.1	6.40 6.38	6.37	6.38	96.8 96.5	96.4	2.70 2.84	2.86	2.95	2.6 4.0	3.2	3.4
		/ Fine	Bottom	19.2	28.1	30.1 30.1	30.1	6.36 6.31	6.31	6.31	96.2 95.5	95.5	2.87 3.29	3.30		2.3 4.7	5.0	
			Surface	1.0	27.6	30.1 35.0	35.0	6.30 6.29	6.29		95.4 97.0	97.0	3.30 0.96	0.96		5.3 2.1	1.9	
12/10/2022	13:26:06	29	Middle	10.7	27.6	35.0 35.0	35.0	6.29 6.28	6.28	6.29	97.0 96.8	96.8	0.95 1.04	1.05	1.03	1.6 4.1	4.1	2.7
		/ Fine	Bottom	21.3	27.6	35.0 35.1	35.1	6.28 6.31	6.31	6.31	96.8 97.3	97.3	1.06	1.10		4.0 2.1	2.1	
		28	Surface	1.0	27.4	35.1 30.1 30.1	30.1	6.31 6.21	6.21		97.3 92.9 92.9	92.9	1.12 2.21	2.20		2.1	2.2	
14/10/2022	14:27:15	20	Middle	10.2	27.4	30.1 30.1 30.2	30.1	6.21 6.18 6.17	6.18	6.19	92.9 92.5 92.4	92.5	2.19 3.14 3.18	3.16	2.97	2.8 3.4	3.7	2.9
		/ Fine	Bottom	20.5	27.4	30.2 30.2 30.2	30.2	6.17 6.14 6.13	6.14	6.14	92.4 91.8 91.7	91.8	3.53 3.57	3.55		3.9 3.4 2.2	2.8	
		27	Surface	1.0	25.8	30.5 30.5	30.5	6.55 6.51	6.53		95.5 95.0	95.3	2.25	2.26		2.9	3.6	
20/10/2022	9:16:12		Middle	10.0	25.8	30.5 30.5	30.5	6.35 6.33	6.34	6.44	92.6 92.4	92.5	2.59	2.62	2.71	3.6	3.8	3.9
		/ Fine	Bottom	20.1	25.8	30.5 30.5	30.5	6.27 6.27	6.27	6.27	91.5 91.4	91.5	3.26 3.27	3.27		3.1 5.7	4.4	
		27	Surface	1.0	25.4	30.3 30.2	30.3	6.59 6.54	6.57		95.5 94.9	95.2	2.86	2.86		1.2	2.0	
22/10/2022	9:49:11		Middle	9.7	25.6	30.5 30.5	30.5	6.29 6.29	6.29	6.43	91.5 91.5	91.5	3.04	3.07	3.09	1.0 1.0	1.0	1.5
		/ Fine	Bottom	19.4	25.6	30.6 30.6	30.6	6.28 6.28	6.28	6.28	91.2 91.3	91.3	3.33 3.37	3.35		1.3 1.6	1.5	1
		27	Surface	1.0	25.6	30.6 30.6	30.6	6.62 6.59	6.61		96.2 95.8	96.0	2.73	2.73		3.7 3.4	3.6	
24/10/2022	10:46:26		Middle	10.3	25.5	30.6 30.6	30.6	6.37 6.36	6.37	6.49	92.6 92.5	92.6	2.97	2.99	3.06	2.5	3.4	3.5
		/ Fine	Bottom	20.7	25.5	30.7 30.7	30.7	6.35 6.35	6.35	6.35	92.3 92.4	92.4	3.48 3.47	3.48		3.4 4.0	3.7	
		26	Surface	1.0	25.0	30.8 30.8	30.8	6.79 6.78	6.79		98.0 97.8	97.9	2.99	3.02		2.4 3.1	2.8	
26/10/2022	11:49:20		Middle	10.0	25.1	30.8 30.8	30.8	6.70 6.70	6.70	6.74	96.7 96.7	96.7	3.40 3.37	3.39	3.43	2.1 3.6	2.9	2.4
		/ Fine	Bottom	20.0	25.0	30.9 30.9	30.9	6.64 6.64	6.64	6.64	95.9 95.8	95.9	3.88 3.92	3.90		2.1	1.7	1
		26	Surface	1.0	24.7	30.9 30.9 30.8	30.8	6.78 6.73	6.76		95.8 97.3 96.6	97.0	3.35 3.42	3.39		2.2 5.3	3.8	
28/10/2022	13:23:17	20	Middle	9.9	25.1	30.8 30.7 30.7	30.7	6.73 6.55 6.51	6.53	6.64	96.6 94.4 93.9	94.2	3.42 3.50 3.41	3.46	3.44	3.0 3.5	3.3	4.0
		/ Fine		19.9	25.0	30.7	30.7	6.47	6.47	6.47	93.9 93.2	93.2	3.41	3.48		3.5 5.4	4.9	1

Monitoring Station : TKO-M4a



Date	Time	Ambient Temp (°C) / Weather	Monitoring I	Denth (m)	Temp	Salinit	y (ppt)	Dissolv	ed Oxyger	n (mg/L)	Dissolve Saturat	d Oxygen ion (%)	Tu	irbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	TIME	Condition	Worntoring	Deptil (III)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth averag
		29	Surface	1.0	28.3	33.8 33.8	33.8	5.99 5.99	5.99	6.00	92.8 92.8	92.8	1.35 1.36	1.36		1.8 2.1	2.0	
3/10/2022	9:02:56		Middle	7.6	28.3	34.0 34.1	34.1	5.99 6.01	6.00	0.00	92.9 93.3	93.1	1.70 1.72	1.71	1.72	1.1 3.1	2.1	1.8
		/ Fine	Bottom	15.2	28.2	34.3 34.3	34.3	6.12 6.15	6.14	6.14	94.9 95.4	95.2	2.09 2.08	2.09		1.0 1.7	1.4	
		29	Surface	1.0	28.4	33.9 33.9	33.9	6.24 6.25	6.25		96.9 97.1	97.0	0.81	0.81		2.2	1.9	
5/10/2022	9:52:00		Middle	9.0	28.4	34.2 34.4	34.3	6.27 6.29	6.28	6.26	97.6 97.9	97.7	1.08	1.12	1.26	1.9	2.2	1.8
		/ Fine	Bottom	18.0	28.4	34.8 34.9	34.9	6.43 6.46	6.45	6.45	100.4 100.7	100.5	1.81	1.86		1.7	1.4	
		30	Surface	1.0	28.5	29.8 29.8	29.8	6.25 6.22	6.24		95.0 94.6	94.8	1.83 1.81	1.82		1.1	1.9	
7/10/2022	10:05:57		Middle	9.6	28.5	29.9 29.9	29.9	6.13 6.12	6.13	6.18	93.2 93.0	93.1	1.98	2.00	2.21	1.5	1.8	1.6
		/ Fine	Bottom	19.2	28.5	29.9 29.9	29.9	6.01 6.01	6.01	6.01	91.4 91.4	91.4	2.82	2.82		1.3	1.3	
		29	Surface	1.0	28.1	30.1 30.1	30.1	6.37 6.37	6.37		96.4 96.4	96.4	2.86	2.86		4.1	3.5	
10/10/2022	11:32:09		Middle	7.3	28.1	30.1 30.1	30.1	6.36 6.36	6.36	6.37	96.3 96.2	96.3	2.95	2.95	2.98	2.4	2.4	3.1
		/ Fine	Bottom	14.7	28.1	30.1 30.1	30.1	6.32 6.31	6.32	6.32	95.7 95.5	95.6	3.12	3.14		3.6 3.4	3.5	
		29	Surface	1.0	27.6	35.0 35.0	35.0	6.29 6.29	6.29		97.0 97.0	97.0	0.95	0.97		2.1 1.1	1.6	
12/10/2022	13:52:06		Middle	9.6	27.6	35.0 35.0	35.0	6.29 6.29	6.29	6.29	96.9 96.9	96.9	1.05	1.05	1.08	3.7	3.0	2.6
		/ Fine	Bottom	19.3	27.6	35.1 35.1	35.1	6.31 6.31	6.31	6.31	97.3 97.3	97.3	1.21	1.21		2.5 4.0	3.3	
		28	Surface	1.0	27.4	30.1 30.1	30.1	6.22 6.22	6.22		93.1 93.1	93.1	2.42	2.44		3.5 2.1	2.8	
14/10/2022	14:46:59		Middle	10.3	27.4	30.1 30.1	30.1	6.20 6.19	6.20	6.21	92.8 92.7	92.8	2.67	2.70	2.76	3.0	2.6	2.9
		/ Fine	Bottom	20.5	27.4	30.1 30.1	30.1	6.16 6.15	6.16	6.16	92.2 92.0	92.1	3.11	3.15		3.0 3.3	3.2	
		27	Surface	1.0	25.7	30.5 30.5	30.5	6.64 6.59	6.62		96.7 96.1	96.4	1.91	1.92		4.0	4.2	
20/10/2022	9:36:17		Middle	9.4	25.8	30.5 30.5	30.5	6.44 6.41	6.43	6.52	94.0 93.5	93.8	2.42	2.43	2.57	4.3 5.8 4.8	5.3	4.1
		/ Fine	Bottom	18.8	25.8	30.6 30.6	30.6	6.32 6.32	6.32	6.32	92.1 92.1	92.1	3.37	3.36		3.0 2.7	2.9	
		27	Surface	1.0	25.6	30.2 30.2	30.2	6.41 6.39	6.40		93.1 92.8	93.0	2.91 2.94	2.93		1.0 1.0	1.0	
22/10/2022	10:06:13	21	Middle	9.7	25.6	30.2 30.5 30.5	30.5	6.26 6.27	6.27	6.33	92.8 91.0 91.1	91.1	3.09 3.12	3.11	3.11	1.0	1.0	1.0
		/ Fine	Bottom	19.3	25.6	30.6	30.6	6.27	6.27	6.27	91.1	91.2	3.30	3.31		1.0 1.0	1.0	
		27	Surface	1.0	25.6	30.6 30.6	30.6	6.27 6.59	6.58		91.2 95.8	95.6	3.31 2.87 2.88	2.88		1.0 5.1	4.2	
24/10/2022	11:06:27	21	Middle	9.3	25.6	30.6 30.6	30.6	6.56 6.36	6.36	6.47	95.3 92.5	92.5	3.08	3.05	3.14	3.3 4.2	4.6	3.8
		/ Fine	Bottom	18.6	25.5	30.6 30.6	30.6	6.35 6.32	6.33	6.33	92.4 91.9	92.0	3.02 3.51	3.49		4.9 2.7	2.8	
			Surface	1.0	25.0	30.6 30.8	30.8	6.33 6.80	6.80		92.0 98.1	98.1	3.47 3.08	3.09		2.8	3.2	
26/10/2022	12:06:18	26	Middle	9.8	25.1	30.8 30.8	30.8	6.79 6.68	6.68	6.74	98.0 96.4	96.4	3.09 3.49	3.45	3.32	2.7	2.2	2.4
		/ Fine	Bottom	19.5	25.1	30.8 30.8	30.8	6.68 6.67	6.67	6.67	96.3 96.2	96.2	3.40 3.43	3.43		2.3 2.5	2.0	
			Surface	1.0	24.8	30.8 30.7	30.7	6.67 6.68	6.66		96.2 95.9	95.7	3.43 3.43	3.42		1.5 4.5	4.7	\vdash
28/10/2022	13:45:19	26	Middle	8.8	25.1	30.7 30.7	30.7	6.64 6.50	6.49	6.57	95.5 93.7	93.5	3.40 3.50	3.54	3.47	4.9 4.3	4.6	4.2
		/ Fine	Bottom	17.5	25.0	30.7 30.7	30.7	6.47 6.45	6.46	6.46	93.3 93.0	93.0	3.57 3.46	3.45	0.77	4.8 3.6	- 3.5	
			Dottom	17.5	20.0	30.7	00.7	6.46	0.40	0.40	93.0	55.0	3.44	0.40		3.3	0.0	

Monitoring Station : TKO-M5



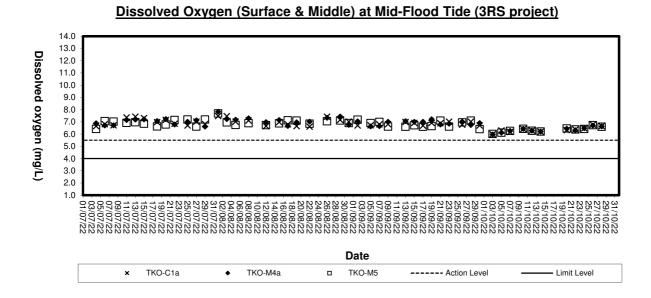
Monitoring	Station :	TKO-IVI5													$\overline{\mathbf{V}}$			
Date	Time	Ambient Temp (°C) / Weather	Monitoring I	Depth (m)	Temp (°C)		y (ppt)		ved Oxyger	n (mg/L) Depth-	Satura	d Oxygen tion (%)		urbidity (NT	U) Depth-		nded Solids	s (mg/L) Depth-
		Condition				Value 33.9	Average	Value 5.96	Average	average	Value 92.4	Average	Value 1.54	Average	average	Value 1.8	Average	average
		29	Surface	1.0	28.3	33.9 34.1	33.9	5.96 5.98	5.96	5.98	92.4 92.8	92.4	1.52 1.76	1.53		1.8 2.3	1.8	
3/10/2022	9:17:56		Middle	7.7	28.3	34.1	34.1	6.00	5.99		93.1	93.0	1.81	1.79	1.80	1.7	2.0	2.0
		/ Fine	Bottom	15.3	28.2	34.3 34.4	34.3	6.13 6.16	6.15	6.15	95.1 95.6	95.3	2.09 2.09	2.09		2.4 1.7	2.1	
		29	Surface	1.0	28.4	34.0 34.0	34.0	6.24 6.24	6.24		97.0 97.0	97.0	0.81 0.88	0.85		1.7 1.0	1.4	
5/10/2022	10:07:58		Middle	6.7	28.5	34.3 34.4	34.3	6.28 6.30	6.29	6.27	97.9 98.2	98.1	1.25 1.30	1.28	1.33	1.9 1.8	1.9	1.9
		/ Fine	Bottom	13.3	28.4	34.8 34.8	34.8	6.40 6.44	6.42	6.42	99.9 100.5	100.2	1.84	1.88		2.3	2.4	1
			Surface	1.0	28.5	29.8	29.8	6.34	6.33		96.3	96.2	1.90	1.88		1.5	1.4	
7/10/2022	10:25:56	30	Middle	7.0	28.5	29.8 29.9	29.9	6.31 6.11	6.11	6.22	96.0 93.0	92.9	1.86 2.44	2.48	2.52	1.2 1.2	1.1	1.4
THUE DEE	10.20.00	/ Fine				29.9 29.9		6.10 6.03		0.00	92.8 91.7		2.51 3.21		2.02	1.0 2.0		
			Bottom	14.0	28.5	29.9 30.1	29.9	6.03 6.40	6.03	6.03	91.7 96.9	91.7	3.21 2.69	3.21		1.2 2.0	1.6	
		29	Surface	1.0	28.1	30.1	30.1	6.41	6.41	6.40	96.9	96.9	2.72	2.71		2.2	2.1	-
10/10/2022	11:46:06		Middle	7.6	28.1	30.1 30.1	30.1	6.40 6.39	6.40		96.8 96.7	96.8	2.82 2.87	2.85	2.89	5.9 3.6	4.8	3.4
		/ Fine	Bottom	15.2	28.1	30.1 30.1	30.1	6.34 6.34	6.34	6.34	95.9 95.9	95.9	3.10 3.13	3.12		2.5 4.4	3.5	
		29	Surface	1.0	27.6	35.0 35.0	35.0	6.30 6.30	6.30		97.1 97.1	97.1	0.93 0.93	0.93		1.9 1.3	1.6	
12/10/2022	14:17:06		Middle	6.8	27.6	35.0 35.0	35.0	6.29 6.29	6.29	6.30	96.9 96.9	96.9	1.04 1.09	1.07	1.06	2.9 2.3	2.6	2.9
		/ Fine	Bottom	13.6	27.6	35.0	35.0	6.29	6.30	6.30	97.1	97.1	1.16	1.18		4.8	4.6	1
			Surface	1.0	27.4	35.0 30.1	30.1	6.30 6.23	6.23		97.1 93.3	93.3	1.19 2.23	2.25		4.4 2.9	2.5	
14/10/2022	15:04:00	28	Middle	7.1	27.4	30.1 30.1	30.1	6.23 6.22	6.22	6.22	93.3 93.1	93.1	2.27 2.65	2.71	2.76	2.1 4.6	3.8	2.7
1 10 10 2022	10101100	/ Fine	Bottom	14.3	27.4	30.1 30.1	30.1	6.21 6.18	6.18	6.18	93.0 92.5	92.5	2.76 3.33	3.32	2.70	3.0 1.7	1.8	
						30.1 30.5		6.18 6.52		0.18	92.4 95.0		3.30 2.35			1.9 5.5		
		27	Surface	1.0	25.7	30.5 30.5	30.5	6.45 6.36	6.49	6.42	94.1 92.7	94.6	2.35 2.58	2.35		2.6 5.0	4.1	
20/10/2022	9:56:25	/ Fine	Middle	7.6	25.8	30.5	30.5	6.35	6.36		92.6	92.7	2.62	2.60	2.80	3.2	4.1	3.6
		/ Fine	Bottom	15.3	25.8	30.6 30.6	30.6	6.32 6.32	6.32	6.32	92.2 92.1	92.2	3.44 3.45	3.45		2.3 3.0	2.7	
		27	Surface	1.0	25.7	30.1 30.1	30.1	6.33 6.32	6.33	6.30	92.0 91.9	92.0	2.74 2.76	2.75		1.5 1.1	1.3	
22/10/2022	10:23:12		Middle	7.1	25.6	30.4 30.4	30.4	6.27 6.27	6.27	0.00	91.2 91.1	91.2	2.99 3.01	3.00	3.06	1.0 1.2	1.1	1.2
		/ Fine	Bottom	14.1	25.6	30.6 30.6	30.6	6.27 6.28	6.28	6.28	91.2 91.2	91.2	3.42 3.43	3.43		1.4 1.0	1.2]
		27	Surface	1.0	25.6	30.6 30.6	30.6	6.53 6.50	6.52		95.0 94.6	94.8	2.81 2.83	2.82		2.7 3.1	2.9	
24/10/2022	11:21:25		Middle	7.2	25.6	30.6	30.6	6.35	6.34	6.43	92.3	92.2	3.13	3.13	3.07	3.6	3.8	3.1
		/ Fine	Bottom	14.3	25.6	30.6 30.6	30.6	6.33 6.30	6.30	6.30	92.1 91.7	91.7	3.12 3.27	3.27		3.9 4.3	2.7	
			Surface	1.0	25.1	30.6 30.8	30.8	6.30 6.74	6.73		91.6 97.2	97.0	3.27 3.20	3.18		1.1 3.4	2.6	
		26				30.8 30.8		6.71 6.65		6.69	96.8 96.0		3.16 3.52			1.7 1.4		
26/10/2022	12:21:18	/ Fine	Middle	7.1	25.0	30.8 30.8	30.8	6.65 6.66	6.65		96.0 96.1	96.0	3.49 3.64	3.51	3.44	2.0	1.7	2.3
		, , , , , , , , , , , , , , , , , , , ,	Bottom	14.2	25.0	30.8	30.8	6.66	6.66	6.66	96.2	96.2	3.64	3.64		3.2	2.5	
		26	Surface	1.0	24.8	30.8 30.7	30.8	6.72 6.66	6.69	6.58	96.5 95.9	96.2	3.49 3.45	3.47		3.3 2.0	2.7	
28/10/2022	14:10:18		Middle	6.3	25.1	30.7 30.7	30.7	6.47 6.47	6.47		93.4 93.3	93.4	3.39 3.34	3.37	3.40	3.5 5.1	4.3	3.3
		/ Fine	Bottom	12.5	25.0	30.7 30.7	30.7	6.46 6.46	6.46	6.46	93.1 93.1	93.1	3.36 3.36	3.36		3.3 2.8	3.1	

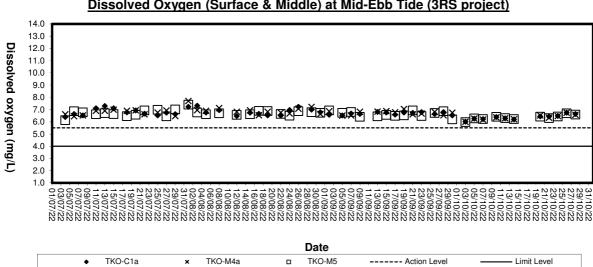


Appendix D5

Graphical Plots of Impact Marine Water Quality Monitoring Data (3RS Project)

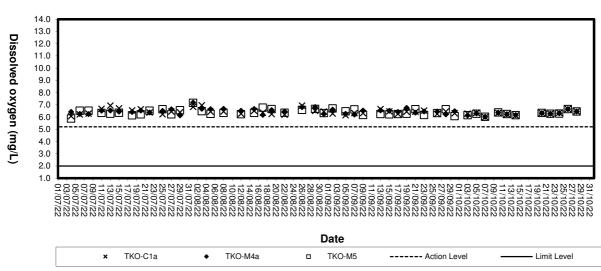




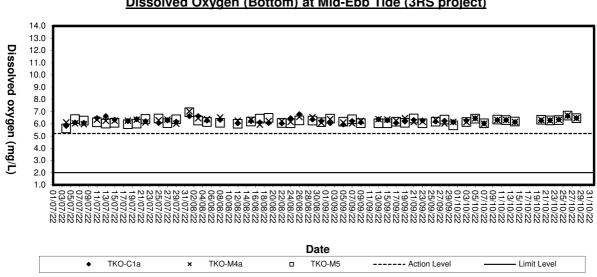


Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



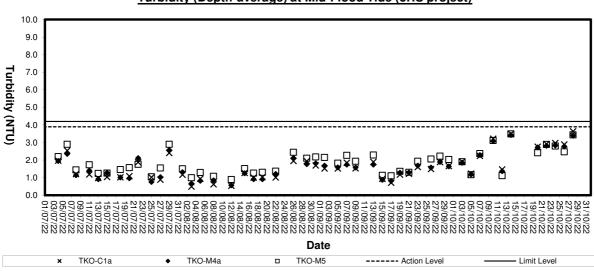


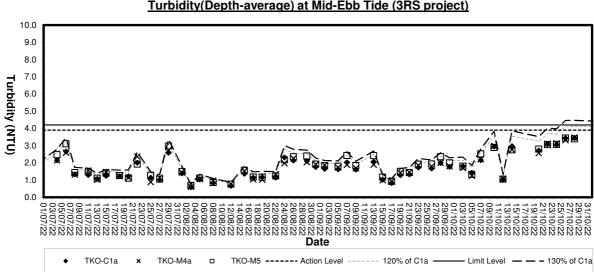
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



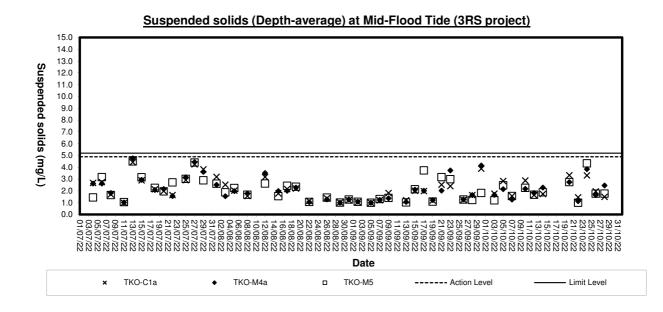


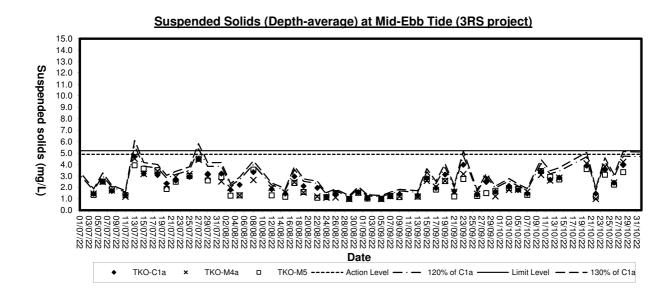


Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)

Turbidity (Depth-average) at Mid-Flood Tide (3RS project)









Appendix E

Weather Condition

	y LAtract	OI IVIELE	orologica		ations,	October	2022 - 1	Seung Kw	
	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		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 - Tseung Kwan O

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	 1. Take Immediate action to avoid further exceedance 2. Submit proposals for remedial actions to fC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate.
LITY EXCEEDANCE	Ē		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 	LIMIT LEVEL	 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
Ĩ		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 enitoring frequency to daily in IC(E) and Contractor on ctions nce continues, arrange th IC(E) and ER.	6 III MILLOUI	 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	I		1. Exceedance for one sample	 Exceedance for two or more consecutive samples 		1. Exceedance for one sample

		EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE		Y EXCEEDANCE	
		ACTION			
	ET Leader	IC(E)		ER	Contractor
Ž	Identify source, investigate the causes	1. Discuss amongst ER, ET and Contractor on	÷	Confirm receipt of notification	1. Take Immediate action to
Ъ	of exceedance and propose remedial	the potential remedial actions		of failure in writing	
Ĕ	measures	2. Review Contractor's remedial actions	ŝ	Notify Contractor	2. Submit proposals for remediat
ž	Notify IC(E), ER, EPD and Contractor	whenever necessary to assure their	ė	In consultation with the IC(E),	actions to IC(E) within 3
ď	Repeat measurement to confirm	effectiveness and advise the ER accordingly		agree with the Contractor on	working days of notification
g	lindina	3. Supervise the implementation of remediat		the remedial measures to be	Implement the agreed
Ē	Increase monitoring frequency to daily	measures		implemented	proposals
Ö	Carry out analysis of contractor's		4	Ensure remedial measures	Resubmit proposals if
ž	working procedures to determine			are property implemented	problem still not under control
8	possible mitigation to be implemented		ഗ്	If exceedances continues,	Stop the relevant activity of
4	Arrance meeting with IC(E) and ER to			consider what portion of the	works as determined by the
÷	discuss the remedial actions to be			work is responsible and	ER until the exceedance is
g	taken			instruct the Contractor to stop	abated
Ř	Assess effectiveness of Contractor's			that portion of work until the	•
e	remedial actions and keep IC(E), EPD	•		exceedance is abated	
Q	and ER informed of the results				
#	if exceedance stops, cease additional				
F	monitoring				

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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		Action Level	Limit Levej	

			1		ξ		Į		
				ACTION	Ň				Т
<u> </u>		ET Leader	L	Contractor		ER		IEC	T
Action level	÷	Identify source(s) of impact:	-	Notify the ER and IEC in writing	÷.	Notify EPD and other relevant	.	Check monitoring data	
papa	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	2	Confirm ET assessment if	
- day	¢	Notify Contractor in writing within	~	Rectify unacceptable practice:		identification of the exceedance		exceedance is due / not due	æ
	÷	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	_
	f	automent and Contractor's		the identification of an	č	Require contractor to propose		measures	
		working methods:		exceedance	;	remedial measures for the	4	Review contractor's	
	¢	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	ý	Discuss with ET. IEC and ER and		property implemented		and advise the ER	
		avreadance and advise		propose mitigation measures to	ഗ	Assess the effectiveness of the		accordingly	
		contractor if exceedance is due to		IEC and ER if exceedance is due	_	mitigation measure	ഗ്	Supervise the	
	_	contractor's construction works		to the construction works within 4		1		implementation of mitigation	c
	2.	Discuss mitigation measures with		working days of identification of				measures .	
		Contractor if exceedance is due		an exceedance					
<u> </u>		to the construction works within 4	~	Implement the agreed mitigation					
		working days		measures within reasonable time					
	ω	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

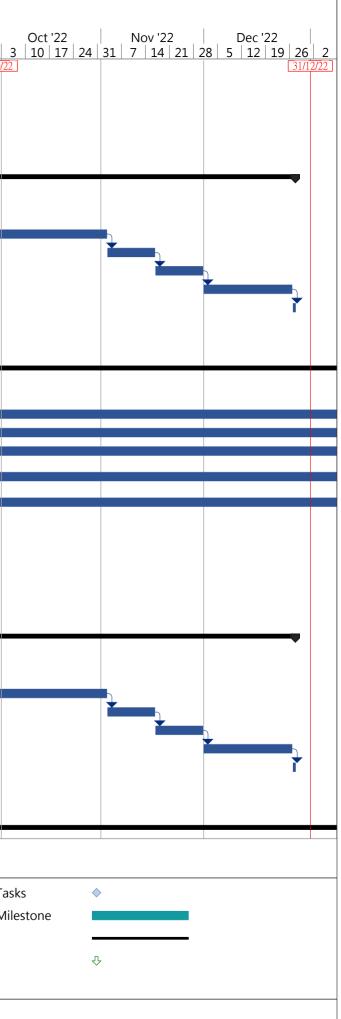
Works Programme

	Contract duration of Contract CV/2021/9 Contract date , Date of the Letter of Acceptance Starting Date of the Works Starting Date of Section 1 of the Works Starting Date of Section 2 of the Works Starting Date of Section 3 of the Works Completion Date of Section 1 of the Works Completion Date of Section 2 of the Works Completion Date of Section 2 of the Works Completion Date of Section 3 of the Works Completion date of Section 1 Planned competion date of Section 2 Planned competion date of Section 3 Access Date of the Site Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2, A1 late) Portion B1, B3, B6a, B6b and B7 (within 60 days af Portion B6c (7 day's advance notice after starting date Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Portion A1, A7a, A7b, A7c1, A9, A9a and B6c (7 date) Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Portion A1, A7b, A7c1, A9 and A9a (or at an earlier with 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B3, B6a, B6b and B7 (or at an earlier date) Portion B1, B	0 and A11 (within 60 days after starting ter starting date) ay's advance notice after starting date) ate) d A11 (or at an earlier date notified by the date as notified by the Project Manager	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22	Mon 20/12/2 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/22 Sun 31/12/22 Sun 31/12/22 Sun 31/12/22 Sun 31/12/22 Sun 31/12/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22	Image Image <th< th=""><th>Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22</th><th>0 days 0 days</th><th></th><th></th><th>0 days 742 days 729 days 0 days 729 days 0 days 1 day 0 days 0 days</th><th>NA NA Sat 1/1/22</th><th>NA NA Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22</th><th></th></th<>	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22	0 days 0 days			0 days 742 days 729 days 0 days 729 days 0 days 1 day 0 days	NA Sat 1/1/22	NA Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22	
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	Access Date of the Site Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2, A1 late) Portion B1, B3, B6a, B6b and B7 (within 60 days af Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 da Portion B6c (7 day's advance notice after starting da land back of the Site Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Project Manager with 30 days' advance notice) Portion A1, A7b, A7c1, A9 and A9a (or at an earlier with 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier da	ter starting date) ay's advance notice after starting date) ate) d A11 (or at an earlier date notified by the r date as notified by the Project Manager	Sat 1/1/22 Sat 31/12/23 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 3/112/23	0 days 0 days 0 days 0 days 0 days			729 days 0 days 0 days 0 days	NA Sat 1/1/22 Sat 1/1/22 Sat 1/1/22	NA Sat 1/1/22 Sat 1/1/22 Sat 1/1/22	
	Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2, A1 late) Portion B1, B3, B6a, B6b and B7 (within 60 days af Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 da Portion B6c (7 day's advance notice after starting da Partion B6c (7 day's advance notice after starting da Partion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Project Manager with 30 days' advance notice) Portion A1, A7b, A7c1, A9 and A9a (or at an earlier with 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier da	ter starting date) ay's advance notice after starting date) ate) d A11 (or at an earlier date notified by the r date as notified by the Project Manager	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sat 31/12/23	0 days 0 days 0 days 0 days			0 days 0 days 0 days	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22	-
	late) Portion B1, B3, B6a, B6b and B7 (within 60 days af Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 da Portion B6c (7 day's advance notice after starting da Hand back of the Site Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Project Manager with 30 days' advance notice) Portion A1, A7b, A7c1, A9 and A9a (or at an earlier with 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier da	ter starting date) ay's advance notice after starting date) ate) d A11 (or at an earlier date notified by the r date as notified by the Project Manager	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/2 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 3 Sun 31/12/23 Sun	Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 Sun 31/12/23	0 days 0 days 0 days			0 days 0 days	Sat 1/1/22 Sat 1/1/22	Sat 1/1/22 Sat 1/1/22	
	Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 da Portion B6c (7 day's advance notice after starting da Hand back of the Site Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Project Manager with 30 days' advance notice) Portion A1, A7b, A7c1, A9 and A9a (or at an earlier with 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier da	ay's advance notice after starting date) ate) d A11 (or at an earlier date notified by the date as notified by the Project Manager	Sat 1/1/22 Sat 1/1/22 Sun 31/12/23 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 Sun 31/12/23 Sun 31/12/23	Sat 1/1/22 Sat 1/1/22 3 Sun 31/12/2 Sun	Sat 1/1/22 Sat 1/1/22 Sun 31/12/23	0 days 0 days			0 days	Sat 1/1/22	Sat 1/1/22	
F F F F F F F F F F F F F F F F F F F	Portion B6c (7 day's advance notice after starting da land back of the Site Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Project Manager with 30 days' advance notice) Portion A1, A7b, A7c1, A9 and A9a (or at an earlier with 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier da	ate) d A11 (or at an earlier date notified by the r date as notified by the Project Manager	Sat 1/1/22 Sun 31/12/23 Sun 31/12/23	Sat 1/1/22 Sun 31/12/2 Sun 31/12/23	Sat 1/1/22 3 Sun 31/12/2 Sun	Sat 1/1/22 3 Sun 31/12/23	0 days						
F F F F F F F F S F S S F S S S S S S S	And back of the Site Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Project Manager with 30 days' advance notice) Portion A1, A7b, A7c1, A9 and A9a (or at an earlier with 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier dated by the second	d A11 (or at an earlier date notified by the date as notified by the Project Manager	Sun 31/12/23 Sun 31/12/23	Sun 31/12/2 Sun 31/12/23	3 Sun 31/12/2 Sun	3 Sun 31/12/23				aveb 0	Sat 1/1/22	Sat 1/1/22	
F F F F F F F F S F S	Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and Project Manager with 30 days' advance notice) Portion A1, A7b, A7c1, A9 and A9a (or at an earlier with 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier da	date as notified by the Project Manager	Sun 31/12/23	Sun 31/12/23	Sun		0 davs			U uays	Jul 1/ 1/22		
F V V	Project Manager with 30 days' advance notice) Portion A1, A7b, A7c1, A9 and A9a (or at an earlier vith 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier da	date as notified by the Project Manager		31/12/23		Cup 21/12/22				0 days	NA	NA	
v • • • • • • • • • • • • • • • • • • •	vith 30 days' advance notice) Portion B1, B3, B6a, B6b and B7 (or at an earlier da		Sun 31/12/23		31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	
3	Portion B1, B3, B6a, B6b and B7 (or at an earlier da			Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	
		ate as notified by the Project Manager with	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	
	0 days' advance notice) Portion B6c (or at an earlier date as notified by the l lotice)	Project Manager with 30 days' advance	Sun 31/12/23		Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	
	Section 1 of the Works - Tseung Kwan O Area 13	37 Fill Bank	Sat 1/1/22	Sun 31/12/2		Sun 31/12/23	730 days	4SS		0 days	Sat 1/1/22	NA	╞━━┿╟━━╸
1	Taking over the existing facilities at the Tseung I of the Site	Kwan O Area 137 Fill Bank within Portion	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	
	Operation of the the Tseung Kwan O Area 137 F	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	
C_	Operation and maintenance of the surveillance s	system 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	
62	Operation and maintenance of the existing tippin Bank within Portion A of the Site	ng halls at the Tseung Kwan O Area 137 F	II 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	
	Provision, operation and maintenance of the Cru 137 Fill Bank within Portion A of the Site	ushing Plant at the Tseung Kwan O Area	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	
	Operation and maintenance of the dewatering pl	lant at the Tseung Kwan O Area 137 Fill	Sat 1/1/22	Sun	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	
6	Collection and delivery of Public Fill by barges fr	rom the Chai Wan and Mui Wo Barging	Sat 1/1/22	Sun	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	
	Construction of Gabion wall		NA	NA	Sat 19/2/22	Sun 31/12/23	681 days			0 days	Sat 19/2/22	NA	
/	Preparing and submitting a method statement	t 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	-
,	Preparing and submitting the material submis	ssion	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	-
1	Obtaining approval from the Project Manager	ſ	Sat 19/3/22	Fri 1/4/22			1 day	35,34	2	0 days			-
	Construction of Gabion wall								7	-			
/	Re-surfacing of the access road at A11 TKOF	B	NA				,			-			-
1	•		NA	NA			5 days		0	0 days			-
,	Obtaining approval from the Project Manager	r	NA	NA	Thu 7/4/22	Thu 7/4/22	1 day	39	2	0 days	Thu 7/4/22	Thu 7/4/22	-
		Task	E>	ternal Tasks	5		Du	ration-c	only			Exte	rnal Task
		Split	E>	ternal Miles	tone	•	Ma	nual Su	mma	ry Rollup	•	Exte	rnal Mile
nonth r)/2022]		Milestone	In	active Milest	tone		Ma	anual Su	mma	ry	•	Proc	gress
_ ~_ _]													
		5			5			,					
		Project Summary	M	anual Task		\diamond	Fin	isn-only	/				
	Donth r	Bank within portion A of the SIte. Collection and delivery of Public Fill by barges fr Points to the TKO Area 137 Fill Bank within Portion Construction of Gabion wall Preparing and submitting a method statemer Preparing and submitting the material submits Obtaining approval from the Project Manager Construction of Gabion wall Re-surfacing of the access road at A11 TKOF Submission of method statement of re-surfa Obtaining approval from the Project Manager	Bank within portion A of the Site. Collection and delivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Points to the TKO Area 137 Fill Bank within Portion A of the Site Construction of Gabion wall Preparing and submitting a method statement for approval Preparing and submitting the material submission Obtaining approval from the Project Manager Construction of Gabion wall Re-surfacing of the access road at A11 TKOFB Submission of method statement of re-surfacing the access road Obtaining approval from the Project Manager	Bank within portion A of the Site. Collection and delivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Points to the TKO Area 137 Fill Bank within Portion A of the Site Construction of Gabion wall Preparing and submitting a method statement for approval Sat 19/2/22 Preparing and submitting the material submission Sat 5/3/22 Obtaining approval from the Project Manager Construction of Gabion wall Sat 19/3/22 Construction of Gabion wall Sat 19/3/22 Construction of Gabion wall Sat 2/4/22 Re-surfacing of the access road at A11 TKOFB NA Submission of method statement of re-surfacing the access road NA Obtaining approval from the Project Manager NA Submission of method statement of re-surfacing the access road NA Obtaining approval from the Project Manager NA Submission of method statement of re-surfacing the access road NA	Bank within portion A of the Site. 31/12/23 Collection and delivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Points to the TKO Area 137 Fill Bank within Portion A of the Site Sat 1/1/22 Sun 31/12/23 Construction of Gabion wall NA NA NA Preparing and submitting a method statement for approval Sat 19/2/22 Fri 4/3/22 Preparing and submitting the material submission Sat 5/3/22 Fri 18/3/22 Obtaining approval from the Project Manager Sat 19/3/22 Sat 19/3/22 Construction of Gabion wall Sat 2/4/22 Sun 31/12/2 Re-surfacing of the access road at A11 TKOFB NA NA Submission of method statement of re-surfacing the access road NA NA Obtaining approval from the Project Manager NA NA Submission of method statement of re-surfacing the access road NA NA Obtaining approval from the Project Manager NA NA NA Task External Tasks Split External Tasks Summary Inactive Miles Inactive Sumr	Bank within portion A of the Site. 31/12/23 Collection and delivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Points to the TKO Area 137 Fill Bank within Portion A of the Site Sat 1/1/22 Sun Sat 1/1/22 Construction of Gabion wall NA NA NA Sat 19/2/22 Preparing and submitting a method statement for approval Sat 5/3/22 Fri 18/3/22 Sat 19/2/22 Preparing and submitting the material submission Sat 5/3/22 Fri 18/3/22 Sat 19/2/22 Obtaining approval from the Project Manager Sat 2/4/22 Sun 31/12/23 Mon 4/7/22 Re-surfacing of the access road at A11 TKOFB NA NA Ma Mon 21/3/22 Submission of method statement of re-surfacing the access road NA NA Mon 21/3/22 Obtaining approval from the Project Manager NA NA Mon 21/3/22 Submission of method statement of re-surfacing the access road NA NA Mon 21/3/22 Obtaining approval from the Project Manager NA NA Mon 21/3/22 Submission of method statement of re-surfacing the access road NA NA NA Na NA NA Na Na Thu 7/4/22	Bank within portion A of the Site. 31/12/23 Sun 31/12/23 Sun 31/12/23	Bank within portion A of the Site. 31/12/23 Sum 31/12/23 Collection and delivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Points to the TKO Area 137 Fill Bank within Portion A of the Site Sat 1/1/22 Sun 31/12/23 Sun 31/12/23 730 days Construction of Gabion wall NA NA NA Sat 19/2/22 Sun 31/12/23 681 days Preparing and submitting a method statement for approval Sat 19/2/22 Fri 4/3/22 Sat 19/2/22 Wed 2/3/22 12 days Obtaining approval from the Project Manager Sat 19/2/22 Fri 18/3/22 Sun 31/12/23 Sun 31/12/23 Sun 31/12/23 546 days Re-surfacing of the access road at A11 TKOFB NA NA NA Ma NA Man 21/3/22 Fri 2/4/22 Sun 31/12/23 546 days Submission of method statement of re-surfacing the access road NA NA NA Man 21/3/22 Fri 2/4/22 Sun 31/12/23 54 days Submission of method statement of re-surfacing the access road NA NA NA Man 21/3/22 Fri 2/4/22 33 days Obtaining approval from the Project Manager NA NA NA NA NA NA Man 21/3/22 Fig /3/22	Bank within portion A of the Site. 31/12/23 and elivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Sat 1/1/22 Sun and 31/12/23 Sat 1/1/22 Sun 31/12/23 730 days 26SS Construction of Gabion wall NA NA NA Sat 19/2/22 Sun 31/12/23 681 days 2000 Preparing and submitting a method statement for approval Sat 19/2/22 Fri 4/3/22 Sat 19/2/22 Wed 2/3/22 12 days Obtaining approval from the Project Manager Sat 19/3/22 Fri 18/3/22 Sun 31/12/23 Mod 2/3/22 12 days Construction of Gabion wall Sat 19/2/22 Fri 18/3/22 Sat 19/2/22 Wed 2/3/22 12 days Obtaining approval from the Project Manager Sat 19/3/22 Fri 14/22 Tue 26/4/22 1 day 35,34 Construction of Gabion wall Sat 2/4/22 Sun 31/12/23 Mod 4/7/22 Sun 31/12/23 546 days 0 Re-surfacing of the access road at A11 TKOFB NA NA NA Mon 21/3/22 Fri 25/3/22 5 days 0 Submission of method statement of re-surfacing the access road NA NA NA NA Mon 21/3/22 Fri 25/3/22 5	Bank within portion A of the Site. 31/12/23 Sun 31/12/23 Sun 31/12/23	Bank within portion A of the Site. 31/12/23 Image: Sat 1/1/22 Sun 31/12/23 Sat 1/1/22 Sun 31/12/23 730 days 26SS 0 0 days Collection and delivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Points to the TKO Area 137 Fill Bank within Portion A of the Site NA NA Sat 1/1/22 Sun 31/12/23 681 days 0 0 days Preparing and submitting a method statement for approval Sat 1/3/22 Fri 1/3/22 Sat 1/3/22 Sat 1/3/22 Ved 2/3/22 12 days 2 0 days Obtaining approval from the Project Manager Sat 1/3/22 Fri 1/3/22 Sun 31/12/23 Na 35,34 2 0 days Construction of Gabion wall Sat 2/4/22 Ved 2/3/22 I day 35,34 2 0 days Obtaining approval from the Project Manager Sat 1/3/22 Sut 1/1/22 Sun 31/12/23 Non 4/7/22 Sun 31/12/23 Sat 9/3/22 I day 35,34 2 0 days Re-surfacing of the access road at A11 TKOFB NA NA Mon 21/3/22 Fri 2/4/22 33 days 0 0 days Obtaining approval from the Project Manager NA NA NA Mon 21/3/	Bank within portion A of the Site. 31/12/23 31/12/23 730 days 26SS 0 0 days Sat 1/1/22 Collection and delivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Points to the TKO Area 137 Fill Bank within Portion A of the Site NA NA Sat 1/1/22 Sun 31/12/23 730 days 26SS 0 0 days Sat 1/1/22 Preparing and submitting a method statement for approval Sat 1/1/22 Sit 1/1/22 Sun 31/1/2/23 Sat 19/2/22 Wed 2/3/22 12 days 2 0 days Sat 19/2/22 Preparing and submitting the material submission 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 Obtaining approval from the Project Manager Sat 2/4/22 Sun 31/12/23 Mon 4/7/22 Sun 31/12/23 Sde days 7 0 days Mon 4/7/22 Submission of method statement of re-surfacing the access road NA NA Mon 21/3/22 Fri 22/4/22 3d days 0 0 days Mon 21/3/22 Submission of method statement of re-surfacing the access road NA NA Mon 21/3/22 Fri 22/4/22 3d days 0 0 days Mon 21/3/22	Bank within portion A of the Site. 31/12/23 Sun 31/12/23 Fit Fit <t< td=""></t<>

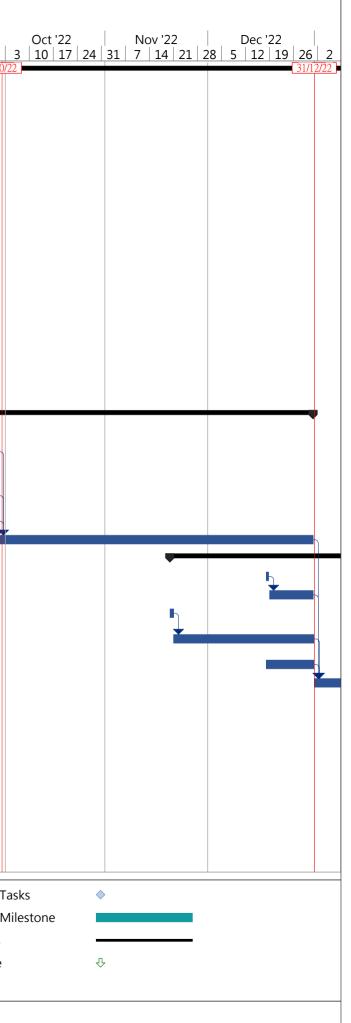
Oct '22 3 10 17 2	24 31	No 7	ov '22 14	21	 28 :	De 5 :	ec '2 12	2 19	26	2
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sks lestone	\$									
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79		Section 3 of the Works - Designated Reclamation Sites in the Mainland				Sun 31/12/23			-	0 days	Tue 7/12/21		1
70		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	1 day	9SS	0	0 days	NA	NA	1
7		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		Thu 1/12/22	Mon 26/12/22	26 days	75	2	369 days	NA	NA	1
75		Trail run of the system	NA	NA	Thu 17/11/22	Wed 30/11/22	14 days	74	2	369 days	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	1
73		Ordering and delivery of C easy system hardware to site	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	1
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	$\mid \rightarrow \mid$
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	
58		Installation of the vehicle washing house facilities	NA	NA	Tue 9/8/22	Thu 1/9/22	24 days	67		485 days		NA	1
57		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	
56	V	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	
55 55	1	Submission of method statement of vehicle washing house facilities	NA		Wed 6/4/22		1 day			0 days	Wed 6/4/22	Wed 6/4/22	-
54	1	PMI no.05 Construction of vehicle washing house facilities	NA		Wed 6/4/22	Fri 2/9/22	150 days			485 days	Wed 6/4/22	NA	
53		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	
52	1	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	5SS	0	0 days	Sat 1/1/22	NA	
1	<u>11</u>	Operation and maintenance of the existing tipping halls 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	
0	1	Operation and maintenance of the surveillance system within Portion B of the Site	Sat 1/1/22	Sun 31/12/23		Sun 31/12/23	· ·		0	0 days	Sat 1/1/22	NA	
59	<u>1</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	
8	~	Taking over the existing facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site		Sat 1/1/22		Sat 1/1/22	1 day	5SS		0 days		Sat 1/1/22	
57		Section 2 of the Works - Tuen Mun Area 38 Fill Bank	Sat 1/1/22			Sun 31/12/23	730 days			0 days		NA	
56		Planned Completion Date (Section 1)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			1 day	NA	NA	-
55		Handing over the facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site to the Employer	Sun 31/12/23		Sun 31/12/23	Sun 31/12/23	0 days	8SS	0	0 days	NA	NA	
54		Operation with C easy system individually	NA	NA	Tue 27/12/22	Tue 27/12/22	1 day	53	0	369 days	NA	NA	
53		Parallel run with the old system	NA	NA	Thu 1/12/22	Mon 26/12/22	26 days	52	2	369 days	NA	NA	
52		Trail run of the system	NA	NA	Thu 17/11/22	Wed 30/11/22	14 days	51	2	369 days	NA	NA	
1		Installation of the C Easy system	NA			Wed 16/11/22		50			NA	NA	
0		Ordering and delivery of C easy system hardware to site	NA	NA	Mon 19/9/22	Wed 2/11/22	45 days	49	3	369 days	NA	NA	
9		Obtaining approval from the Project Manager	NA	NA	Mon 29/8/22	Sun 18/9/22	21 days	48	2	369 days	NA	NA	
18		Submission of method statement for approval	NA	NA	Mon 22/8/22	Sun 28/8/22	7 days			369 days	NA	NA	
47		PMI no.24 Implementation of C easy system at TKOFB	NA	NA	Mon 22/8/22	Tue 27/12/22	128 days			369 days	NA	NA	
16		Trial Production of blanket layer material	NA	NA	Mon 22/8/22	Wed 24/8/22	3 days		1	494 days	NA	NA	-
15	v	Manufacturing and delivery of screening machine	NA	NA	Fri 22/7/22	Thu 11/8/22	21 days		2	0 days	Fri 22/7/22	Thu 11/8/22	
4		Obtaining approval from the Project Manager	NA	NA	Sat 30/7/22	Sat 20/8/22	22 days	43	2	498 days	NA	NA	-
3	v	Submission of method statement	NA	NA	Tue 28/6/22	Fri 29/7/22	32 days		1	0 days	Tue 28/6/22	Fri 29/7/22	1
2		PMI no.3 Trial Production of blanket layer material recycled from public fill	NA	NA	Tue 28/6/22	Wed 24/8/22	58 days			494 days	Tue 28/6/22	NA	1
1	V	Milling off the existing pavement, overlaying new pavement on the access road	NA	NA	Fri 15/4/22	Fri 22/4/22	8 days	40	1	0 days	Fri 15/4/22	Fri 22/4/22	[1/1
	0								allow				26
			Start	Finish						Slack	Start	Finish	
			Start	FINISN					risk	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	$\bigtriangledown \qquad \bigtriangledown$	Manual Task	\diamond	Finish-only	₹₹	
				Page 2			



ID		Task Name		Baseline Start	Baseline Finish	Start	Finish	Duration			Slack	Actual Start	Actual Finish	
	0									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	[1/10
82	 Image: A second s	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	 Image: A set of the set of the	Submitting application documents to EPI						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				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 Min	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 0 days	Tue 7/12/21 Tue 26/4/22		
87	 Image: A start of the start of	People's Republic of China through the E		100 21/12/21	111 01/12/21	100 20/4/22	100 20/4/22	1 day		14	0 days	100 20/4/22	100 20/4/2	2
88	\checkmark	Obtaining all necessary permits, licenses	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	\checkmark	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
	\checkmark	3rd quarter of first year		Fri 20/5/22	Fri 30/9/22	Tue 28/12/21	1 Mon 13/6/22	168 days			0 days	Tue 28/12/	Mon 13/6/2	22
91	\checkmark	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	\checkmark	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 95	✓ ✓	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	1 day 1 day			0 days 0 days	Tue 26/4/22 Wed 25/5/22		
96	× ./	Collection and delivery of 499998 tonnes	of Public Fill	Fri 1/7/22				1 day	95,92,94		0 days	Mon 13/6/22	Mon 13/6/2	22
97	•	4th quarter of first year		Sat 20/8/22				134 days	,,		12 days	NA	NA	
98		Submitting application documents to EPI) for application of dumping permits	Sat 17/9/22		Sat 17/9/22		1 day		0	12 days	NA	NA	_
99		Obtaining the dumping permit from EPD		Sun 18/9/22		Sun 18/9/22		13 days		2	12 days	NA	NA	
100			Employer for the application of the dumping		Sat 20/8/22			1 day		0	12 days	NA	NA	
101		Obtaining the dumping permits from Min People's Republic of China through the E	mployer (assumed on 30/9/22)	Sun 21/8/22		Sun 21/8/22		41 days			12 days	NA	NA	
102		Obtaining all necessary permits, licenses		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	· /			Mon 19/12/22	2 Sat 31/12/22	13 days	105	2	12 days	NA	NA	
107 108		Submiting Application documents to the 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	NA	NA	
108		People's Republic of China through the E Obtaining all necessary permits, licenses	mployer			21/11/22	2 Sat 31/12/22			2	12 days	NA	NA	_
110		Collection and delivery of 250000 tonnes	s of Public Fill	Sun 1/1/23	Fri 31/3/23	Sun 1/1/23	Fri 31/3/23	90 days	103,109,	14	12 days	NA	NA	
		2nd quarter of second year		Sat 18/2/23	Fri 30/6/23	Sat 18/2/23	Fri 30/6/23	133 days			12 days	NA	NA	
112		Submitting application documents to EPI	D for application of dumping permits	Sat 18/3/23	Sat 18/3/23	Sat 18/3/23	Sat 18/3/23	1 day		0	12 days	NA	NA	
113		Obtaining the dumping permit from EPD	(assumed on 31/3/23)	Sun 19/3/23	Fri 31/3/23	Sun 19/3/23	Fri 31/3/23	13 days	112	2	12 days	NA	NA	
		permit of waste at the sea		Sat 18/2/23	Sat 18/2/23			1 day			12 days	NA	NA	
115		Obtaining the dumping permits from Min People's Republic of China through the E Obtaining all necessary permits, licenses	mployer (assumed on 31/3/23)	Sun 19/2/23 Sat 18/3/23		Sun 19/2/23 Sat 18/3/23		41 days		14 2	12 days	NA	NA	_
		Collection and delivery of 250000 tonnes		Sat 10/3/23 Sat 1/4/23			Fri 30/6/23		110,113,		12 days	NA	NA	_
117		· · · · · · · · · · · · · · · · · · ·							110,113,					_
118		3rd quarter of second year		Sat 20/5/23	Sat 30/9/23			134 days			12 days	NA	NA	_
119		Submitting application documents to EPI		Sat 17/6/23	Sat 17/6/23	Sat 17/6/23	Sat 17/6/23	1 day		0	12 days	NA	NA	
			Task		ternal Tasks	I			ration-o	,				ternal
	3month /10/2022	rolling Programme Oct22 to Dec22 CV/2021/09	Split Milestone \blacklozenge		ternal Milest active Milest		♦		anual Sur anual Sur		y Rollup⊸ v	◆ ◆		ternal ogress
a.e. [1	, 10/2022	-1									3			0
			Summary Project Summary		active Summ anual Task	5			irt-only ish-only		1		De De	adline
									,					



	Baseline Start	Baseline Finish	Start	Finish	Duratio	n Predec	risk	Slack	Actual Start	Actua Finish			
							allow	N			26 3 10 17	Nov '22 24 31 7 14 21 28 5	Dec '22
umping 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	119	14	12 days	NA	NA	1/10/22		31/12/2
ication documents to the Employer for the application of the dumpinat the sea	ng Sat 20/5/23	Sat 20/5/23	Sat 20/5/23	Sat 20/5/23	1 day		0	12 days	NA	NA			
dumping permits from Ministry of Ecology and environment of the plic of China through the Employer (assumed on 30/6/23)	Sun 21/5/23	Fri 30/6/23	Sun 21/5/23	Fri 30/6/23	41 days	121	14	12 days	NA	NA			
ecessary permits, licenses, approvals and concents	Sat 17/6/23	Fri 30/6/23	Sat 17/6/23	Fri 30/6/23	14 days		2	12 days	NA	NA			
delivery of 250000 tonnes of Public Fill	Sat 1/7/23		Sat 1/7/23		92 days	117,123	. 14	12 days	NA	NA			
cond year	Sun 20/8/23			Wed 20/12/23			,	11 days	NA	NA			
lication documents to EPD for application of dumping permits	Sun 17/9/23				1 day	<u> </u>	0	12 days	NA	NA			
umping permit from EPD (assumed on 30/9/23)	Mon 18/9/23		Mon 18/9/23		,	126		12 days	NA	NA			
ication documents to the Employer for the application of the dumpin				Sun 20/8/23	1 day	120	2	12 days	NA	NA			
at the sea dumping permits from Ministry of Ecology and environment of the	Mon 21/8/23	Sat 30/9/23	Mon 21/8/23	8 Sat 30/9/23	41 days	128	14	12 days	NA	NA			
blic of China through the Employer(assumed on 30/9/23)	0 47/0/00						<u> </u>						
ecessary permits, licenses, approvals and concents	Sun 17/9/23		Sun 17/9/23		14 days		0	12 days	NA	NA			
delivery of 250000 tonnes of Public Fill	Sun 1/10/23			8 Wed 20/12/23		124,130		11 days	NA	NA			
ery of 8 million tonnes of Public Fill by vessels from Tseung I Bank and the Tuen Mun Area 38 Fill Bank to the Desiognated n the Mainland (subject to Project's Manager's instruction)	Mon 20/12/21	1 Sun 31/12/23	Tue 7/12/21	Wed 20/12/23	744 days			11 days	NA	NA			
t year	Mon 20/12/2	1 Thu 31/3/22	Tue 7/12/21	Thu 30/6/22	206 days			549 days	NA	NA			
End Mobile Unit (FEMU) onto the proposed vessels	Mon 20/12/21	1 Sun 26/12/2	1 Mon 20/12/2	21 Sun 26/12/21	7 days		1	674 days	NA	NA			
lication documents to EPD for application of dumping permits	Mon 20/12/2	1 Mon 20/12/2	21Tue 28/12/2	1 Tue 28/12/21	1 day		0	549 days	NA	NA			
umping permit from EPD (assumed on 31/12/21)	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			
ication documents to the Employer for the application of the dumpinat the sea	ng Mon 20/12/21	1 Mon 20/12/21	Tue 7/12/21	Tue 7/12/21	1 day		0	563 days		NA			
dumping permits from Ministry of Ecology and environment of the	Tue 21/12/21	Fri 31/12/21	Wed 8/12/21	1 Sat 16/4/22	130 days	137	2	563 days	NA	NA			
blic of China through the Employer (assumed on 31/12/21)	Mon 20/12/2	1 Fri 31/12/21	Sun 17/4/22	Sat 30/4/22	14 days		2	549 days	NA	NA			
delivery of 666666 tonnes of Public Fill	Sat 1/1/22				61 days	139,138	-	549 days		NA			
st year	Fri 18/2/22				133 days		,	12 days	NA	NA			
lication documents to EPD for application of dumping permits	Fri 18/3/22		Sat 12/3/22		1 day	'	0	12 days	NA	NA			
umping permit from EPD (assumed on 31/3/22)			Sat 12/3/22 Sat 19/3/22		-	140	0			NA			
ication documents to the Employer for the application of the dumpin	Sat 19/3/22 ng Fri 18/2/22		Fri 18/2/22		43 days 1 day	142	2	12 days 36 days	NA	NA			
at the sea 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			
blic of China through the Employer ecessary 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			
delivery of 666666 tonnes of Public Fill	Fri 1/4/22				61 days	146,145	14	12 days	NA	NA			
st year	Fri 20/5/22		Fri 20/5/22		134 days		,	12 days	NA	NA			
lication documents to EPD for application of dumping permits	Fri 17/6/22		Fri 17/6/22		1 day	<u> </u>	0	12 days	NA	NA			
umping permit from EPD (assumed on 30/6/22)	Sat 18/6/22			Thu 30/6/22	,	149	2	12 days	NA	NA			
ication documents to the Employer for the application of the dumpin			Fri 20/5/22		1 day	145	0	12 days	NA	NA			
at the sea	Ig 111 20/3/22	11120/3/22	11120/0/22	11120/3/22	1 day		0	12 uays		IN/A			
dumping permits from Ministry of Ecology and environment of the olic of China through the Employer	Sat 21/5/22	Thu 30/6/22	Sat 21/5/22	Thu 30/6/22	41 days	151	14	12 days	NA	NA			
cessary permits, licenses, approvals and concents	Fri 17/6/22	Thu 30/6/22	Fri 17/6/22	Thu 30/6/22	14 days		0	12 days	NA	NA			
delivery of 1666665 tonnes of Public Fill	Fri 1/7/22	Fri 30/9/22	Fri 1/7/22	Fri 30/9/22	92 days	150,153	, 14	12 days	NA	NA			
it year	Sat 20/8/22	Sat 31/12/22	2 Sat 20/8/22	Sat 31/12/22	134 days	i		12 days	NA	NA			
lication documents to EPD for application of dumping permits	Sat 17/9/22	Sat 17/9/22	Sat 17/9/22	Sat 17/9/22	1 day		0	12 days	NA	NA			
umping permit from EPD (assumed on 30/9/22)	Sun 18/9/22	Fri 30/9/22	Sun 18/9/22	Fri 30/9/22	13 days	156	2	12 days	NA	NA			
ication documents to the Employer for the application of the dumpin at the sea	ng Sat 20/8/22	Sat 20/8/22	Sat 20/8/22	Sat 20/8/22	1 day		0	12 days	NA	NA			
Task	E	xternal Tasks	5		Du	uration-o	only				External Tasks	\$	
Split	Ex	xternal Miles	stone	•	M	anual Su	ımmar	ry Rollup	•		External Milestone		
2 to Dec22 CV/2021/09				*					×				
Milestone	Ir	nactive Miles	tone		M	anual Su	ımmar	ry	•		Progress		
Summary	lr	nactive Sumn	mary		Sta	art-only					Deadline	$\hat{\mathbf{C}}$	
Project Summary	N	/lanual Task		\diamond	Fir	hish-only	ý						
	Summary	Summary In	Summary Inactive Summ	SummaryInactive SummaryProject SummaryManual Task	Summary Inactive Summary	SummaryInactive SummaryStProject SummaryManual TaskInactive Summary	SummaryInactive SummaryStart-onlyProject SummaryManual TaskFinish-only	SummaryInactive SummaryStart-onlyProject SummaryManual TaskFinish-only	Summary Inactive Summary Start-only Project Summary Manual Task Finish-only	Summary Inactive Summary Start-only Project Summary Manual Task Start-only	Summary Inactive Summary Start-only Project Summary Manual Task Finish-only	Summary Inactive Summary Start-only Deadline Project Summary Manual Task Finish-only Image: Start-only	Summary Inactive Summary Start-only Deadline Project Summary Manual Task Inactive Summary Finish-only

ID		Task Name		Baseline	Baseline	Start	Finish	Duration	Predece			Actual	Actual		
				Start	Finish					risk allow	Slack	Start	Finish		
	0									anow	v			26	3
159		Obtaining the dumping permits from Min People's Republic of China through the E		Sun 21/8/22	Fri 30/9/22	Sun 21/8/22	Fri 30/9/22	41 days	158	14	12 days	NA	NA	_	0/22
160		Obtaining all necessary permits, licenses	s,approvals and concents	Sat 17/9/22	Fri 30/9/22	Sat 17/9/22	Fri 30/9/22	14 days		2	12 days	NA	NA		
161		Collection and delivery of 1 million tonne	s of Public Fill	Sat 1/10/22	Sat 31/12/22	Sat 1/10/22	Sat 31/12/22	92 days	160,154,	14	12 days	NA	NA		ľ—
162		1st quarter of second year		Sun 20/11/22	Fri 31/3/23	Sun 20/11/2	2 Fri 31/3/23	132 days			12 days	NA	NA		
163		Submitting application documents to EPI	D for application of dumping permits	Sun 18/12/22	Sun 18/12/22	2 Sun 18/12/22	2 Sun 18/12/22	1 day		0	12 days	NA	NA		
164		Obtaining the dumping permit from EPD	(assumed on 31/12/22)	Mon 19/12/22	Sat 31/12/22	Mon 19/12/2	2 Sat 31/12/22	13 days	163	2	12 days	NA	NA		
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	· ·		0	12 days	NA	NA		
166		Obtaining the dumping permits from Min People's Republic of China through the E		Mon 21/11/22	Sat 31/12/22	Mon 21/11/22	Sat 31/12/22	41 days	165	14	12 days	NA	NA		
167		Obtaining all necessary permits, licenses	s,approvals and concents	Sun 18/12/22	Sat 31/12/22	Sun 18/12/22	2 Sat 31/12/22	14 days		2	12 days	NA	NA		
168		Collection and delivery of 1 million tonne	es 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	Sat 18/2/23	Fri 30/6/23	133 days			12 days	NA	NA		
170		Submitting application documents to EPI	D for application of dumping permits	Sat 18/3/23	Sat 18/3/23	Sat 18/3/23	Sat 18/3/23	1 day		0	12 days	NA	NA		
171		Obtaining the dumping permit from EPD	(assumed on 31/3/23)	Sun 19/3/23	Fri 31/3/23	Sun 19/3/23	Fri 31/3/23	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 Min People's Republic of China through the E	Employer	Sun 19/2/23		Sun 19/2/23			172	14	12 days	NA	NA		
174		Obtaining all necessary permits, licenses		Sat 18/3/23	Fri 31/3/23	Sat 18/3/23		14 days		2	12 days	NA	NA		
175		Collection and delivery of 1 million tonne	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 EPI		Sat 17/6/23	Sat 17/6/23			1 day		0	12 days	NA	NA		
178		Obtaining the dumping permit from EPD		Sun 18/6/23		Sun 18/6/23		13 days		2	12 days	NA	NA		
179		permit of waste at the sea	Employer for the application of the dumping	Sat 20/5/23	Sat 20/5/23			1 day		0	12 days	NA	NA		
180		Obtaining the dumping permits from Min 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	s,approvals and concents	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 tonne	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 31/12/23	Sun 20/8/23	Wed 20/12/23	123 days			11 days	NA	NA		
184		Submitting application documents to EPI	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		permit of waste at the sea	Employer for the application of the dumping					1 day		0	12 days	NA	NA		
187		Obtaining the dumping permits from Min People's Republic of China through the E	Employer (assumed on 30/9/23)	Mon 21/8/23	Sat 30/9/23				186	14	12 days	NA	NA		
188		Obtaining all necessary permits, licenses		Sun 17/9/23	Sat 30/9/23			14 days		2	12 days	NA	NA		
189		Collection and delivery of 1 million tonne		Sun 1/10/23	Sun 31/12/23		Wed 20/12/23		182,187,	14	11 days	NA	NA		
190		Removal, excavation and deposition of stoc the Designated Reclamation Sites in the Ma		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 stoc	kpiled and/or deposited public fill	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 r association with the existing berthing facilit		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		
193	-	Reclamation Sites in the Mainland Operation and maintenance of the existing r	pavigation channel and turning basins	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days		14	0 days	Sat 1/1/22	NA		
194		Design, construction, operation and maintee									0 days	NA	NA		
194		turning basins in association with the new k Designated Reclamation Sites in the Mainla	perthing facility at Zone B of the	041 1 <u>2</u> 1 <u>2</u> 00	out 12,12,00		0411 0 17 12/20	ee ruuje			o dayo				
195		Obtaining the dumping permits from Minist 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 🗾	E>	ternal Tasks			Du	ration-o	only			Ex	ternal	Tas
			Split	E>	ternal Milest	tone	•	Ma	nual Su	mmar	ry Rollup	•	Ex	ternal	Mile
Project: Date: [1		h rolling Programme Oct22 to Dec22 CV/2021/09	Milestone \blacklozenge	In	active Milest	one			nual Su			•	Pro	ogress	
Date. [1	110/204	<u>~~</u>]									5		-		

Summary

Project Summary

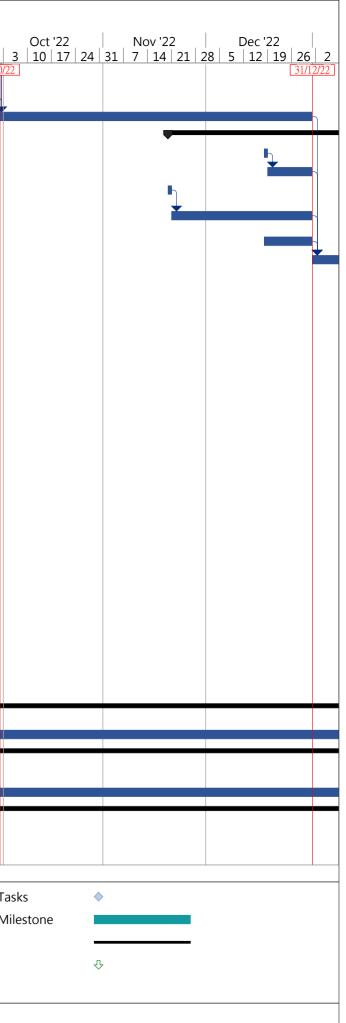
Inactive Summary

Manual Task

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Start-only

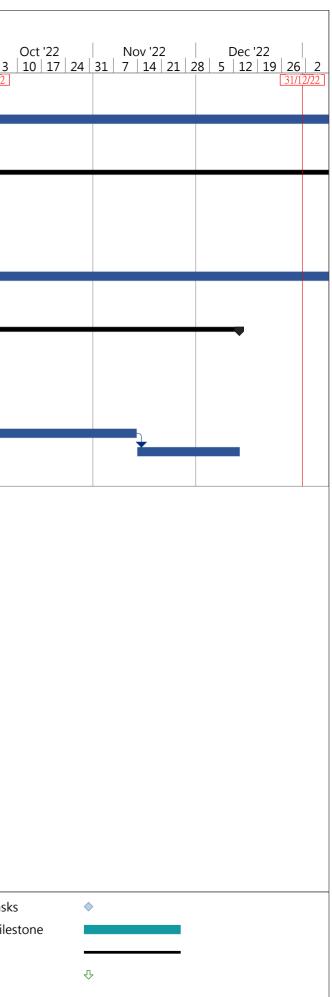
Finish-only



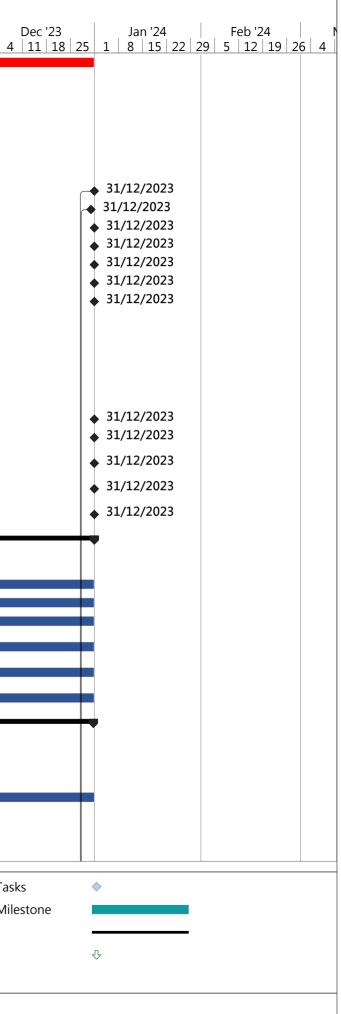
Deadline

ID		Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration			Slack	Actual Start	Actual Finish	
	0								anow				26 3
196	i	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	

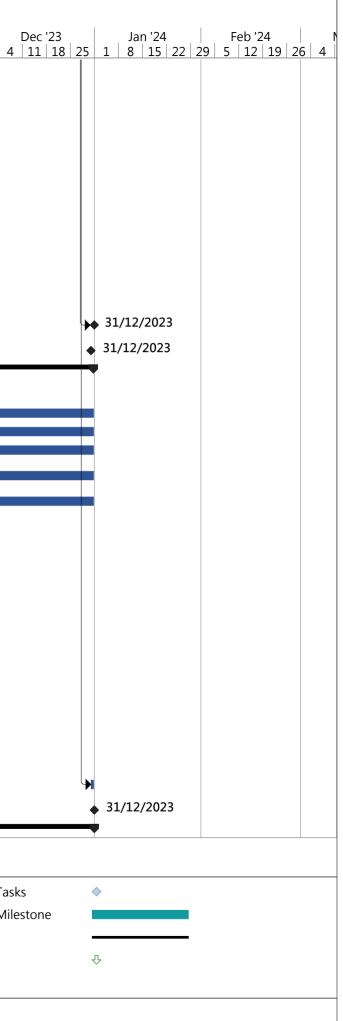
	Task		External Tasks		Duration-only		External Tas
	Split		External Milestone	•	Manual Summary Rollup	i 🔶	External Mile
Project: 3month rolling Programme Oct22 to Dec22 CV/2021/09 Date: [1/10/2022]	Milestone	•	Inactive Milestone		Manual Summary	•	Progress
	Summary		Inactive Summary		Start-only		Deadline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

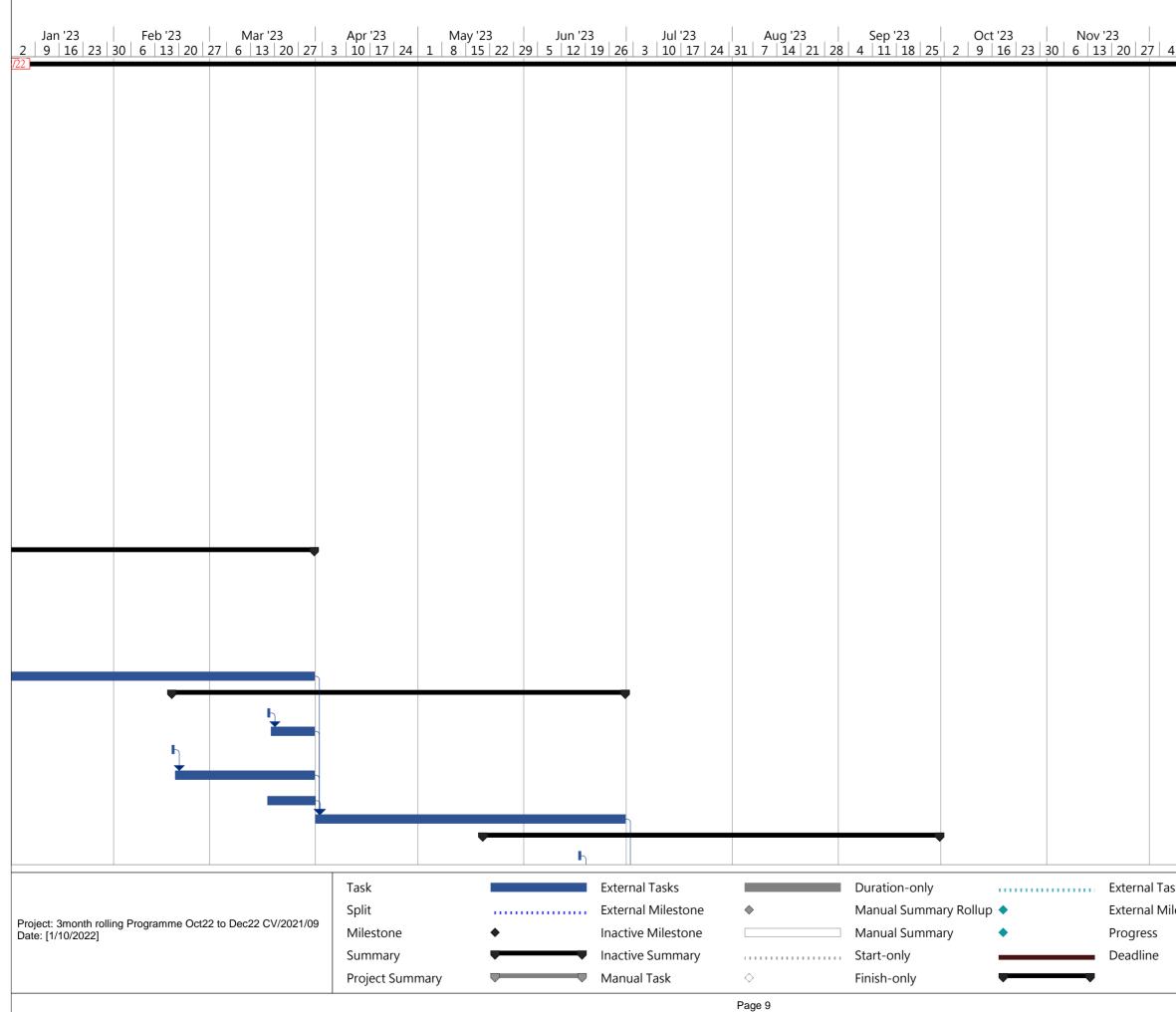


Jan '23 2 9 16 23	Feb '23 30 6 13 20	Mar '23 27 6 13 20 27	Apr '23 7 3 10 17 24	May '23 1 8 15 22	Jun '23 29 5 12 19	Jul '23 9 26 3 10 17 2	Aug '23 4 31 7 14 21 28	Sep '23 3 4 11 18 25	Oct '23 2 9 16 23	Nov '23 30 6 13 20 27
Project: 3month roll Date: [1/10/2022]	ing Programme Oct2	22 to Dec22 CV/2021/0	Task Split 9 Milestone Summary Project Sumi	*		External Tasks External Milestone Inactive Milestone Inactive Summary Manual Task	 ♦ ♦ Page 7 	Duration-only Manual Summa Manual Summa Start-only Finish-only	ary Rollup 🔶	External Ta External Mi Progress Deadline

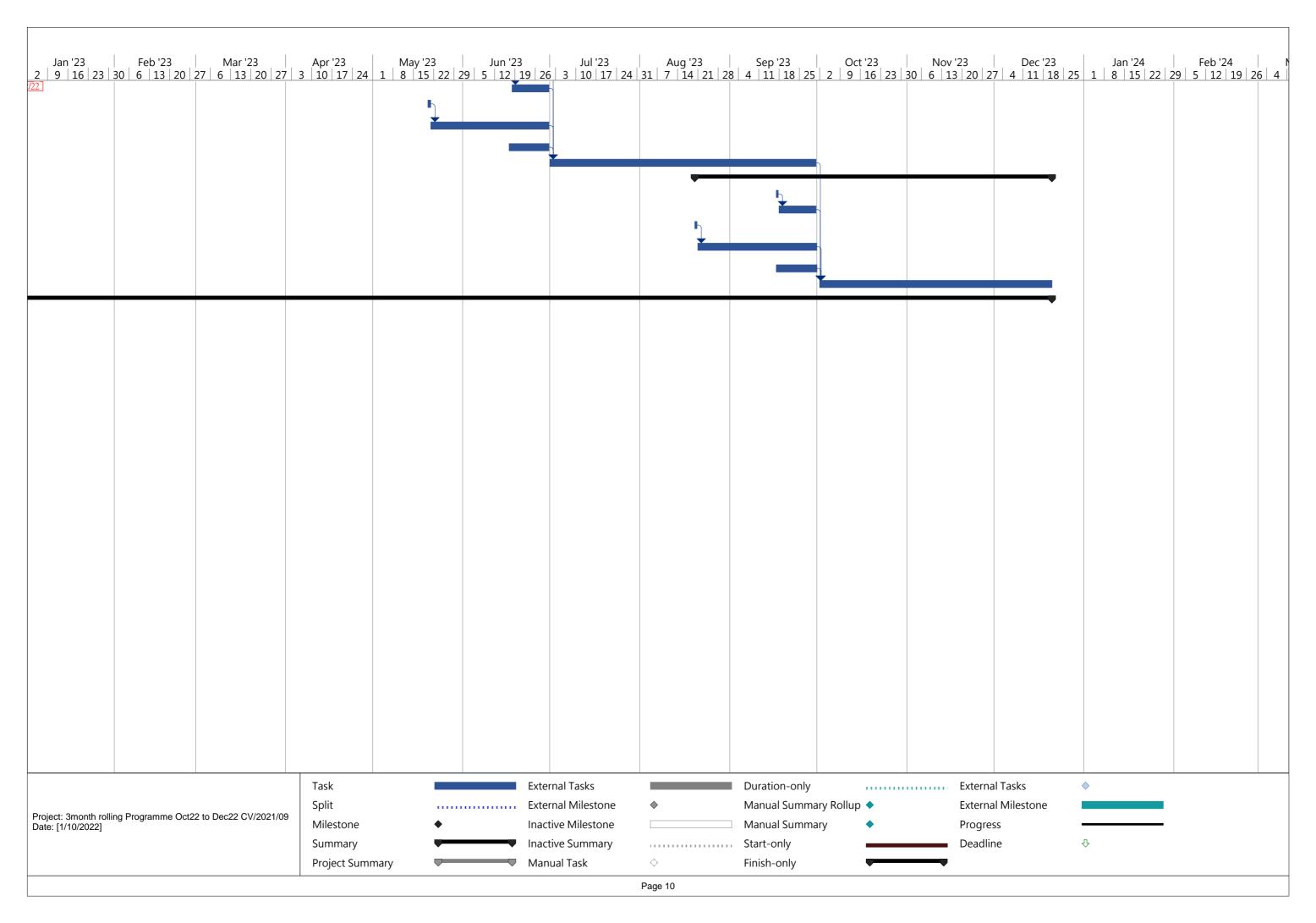


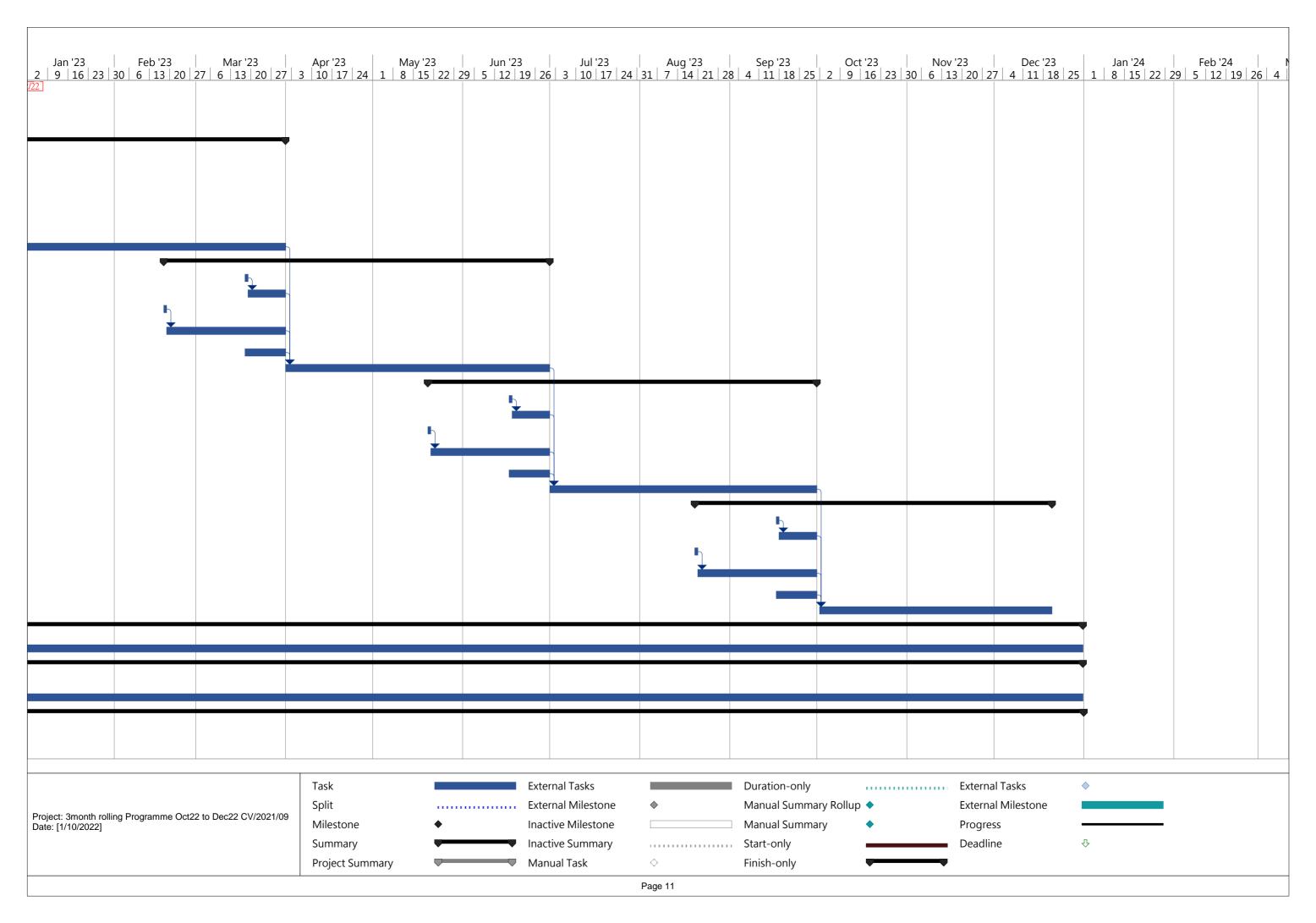
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Project: 3month rolli Date: [1/10/2022]	ng Programme Oct2	22 to Dec22 CV/2021/0	9 Milestone	<u>♦</u>	Ina	ctive Milestone		Manual Summa		Progress	
			Summary Project Sumr	nary		ctive Summary nual Task	\diamond	Start-only Finish-only		Deadline	
							Page 8				



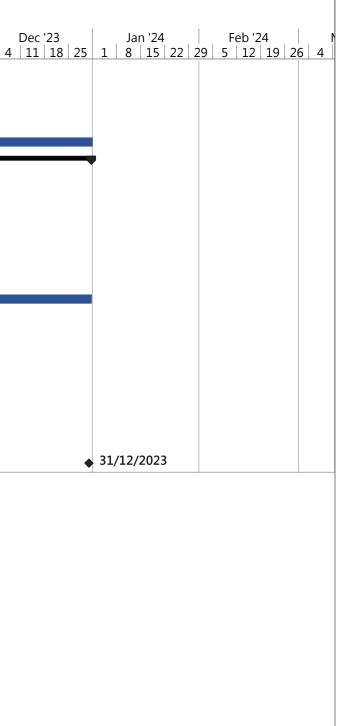


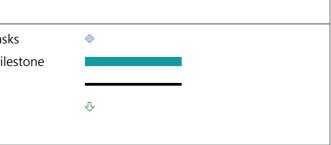
Dec '23	Jan '24	Feb '24 29 5 12 19	, , ,
4 11 18 25	1 8 15 22	29 5 12 19	26 4
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Project: 3month roll Date: [1/10/2022]	ing Programme Oct22	2 to Dec22 CV/2021/09	Split Milestone Summary	* *	Ir	active Milestone active Summary		Manual Summary		F	External Miles Progress Deadline
			Split		E						external Miles
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Jan '23 2 9 16 23 22	Feb '23 30 6 13 20 2	Mar '23 27 6 13 20 27	Apr '23 3 10 17 24	May '23 1 8 15 22 2	Jun '23 29 5 12 19	Jul '23 26 3 10 17 24	Aug '23 31 7 14 21 28	Sep '23 4 11 18 25	Oct '23 2 9 16 23 3	Nov '2 30 6 13	3 20 27 4





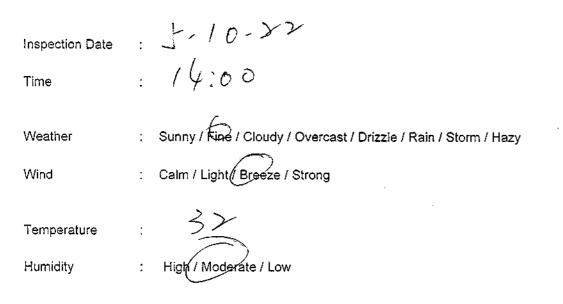


Appendix H

Weekly ET's Site Inspection Record

CEDD Contract No.: CV/2021/09





inspected by	CEDD	Contractor / Sub-Contactor	ET .
Signature:	A	AC	T S
Name:	YLWory	Swysual	chan Hon Lon
Title	Alow/RK.	har . fr	Technician



Environmental Checklist		ement Stages	ation	Remark
		No		
Fugitive Dust Emission		i Kasan dara		
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	√			
 A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed. 	4			
 Water sprays shall be provided and used to dampen materials. 	\checkmark			
 Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions. 	\checkmark			
 All vehicles shall be restrict to a maximum speed of 10 km per hour. 	V			
 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			
 The designated site main haut road shall be paved or regular watering. 	1			
 Frequent watering of work site shall be at least three times per day. 	1			, -
 Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. 	\checkmark			
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	√			
 All plant and equipment should be well maintained e.g. without black smoke emission. 	V			
Open burning should be prohibited.	1			
 The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	7			
 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 shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. 	4			
 When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides. 	1			
 The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt. 	V			
 The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m. 	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		<u>,</u>		
 The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. 	\checkmark			
Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	1	1	1	
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	1	1		
Air compressors and hand held breakers should have noise labels.	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 V			<u> </u>
	1 j	+	+	····-
 Noisy equipment and mobile plant shall always be site away from NSRs. 	<u> </u>			



Environmental Checklist			tation s*	Remark
			N/A	
Water Quality				
 Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	√	S. (1.12) X. 9 X. 9		
 The permanent drainage channels should have sediment basin, traps and baffles and maintain properly. 	1		1	
 Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bund and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels. 	s√	-		· · ·
 Manholes should be covered and sealed. 	1			
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 		1		Item 1
 A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front. 	1			
 A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront. 	1			
 The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	\neg	1		
 The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with wate or protected by other method approved by CEDD. 	r 🗸			· · · · · · · · · · · · · · · · · · ·
 Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetatio planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. 	n V			
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposite 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 facilitie are functioning properly at all times. 	d √ s			
 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 discharge into storm drains. 				· · · · · · · · · · · · · · · · · · ·
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials of hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 				
 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. 	л <u>ү</u>			
Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas.	1			
 Oil interceptor shall be provided at work shop. 	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. 				
 All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport. 	a √			
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	1			
 Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be propert collected and treated before disposal. 				
 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. 	e 🗸			
Existing silt curtain at the outward side of the basin near the Barging Handling Area (BHA) throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtain shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	3			
 A waste collection vessel shall be deployed to remove floating debris. 	1			



Environmental Checklist		emen Stage		Remark
	Yes	No	N/A	
Landscape and Visual			Sieso	SEAR STATISTICS CONTRACTOR STATISTICS
 The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided. 	4			
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. 	1			
 Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed. 	1			
 The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare. 	¥			
Other Environmental Factors		·	1.44	
 C&D waste sorted from mixed C&D material shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT tandfill for disposal. 	1			
 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	1			
Any unused materials or those with remaining functional capacity should be recycled and stored properly.	V			
 All generators, fuel and oil storage are within bundle areas. 	1			
Oil leakage from machinery, vehicle and plant is prevented.	1	Í		
The Environmental Permit should be displaced conspicuously on site.	V	•	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			
 To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce. 	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)	Follow up Date
01	Stagnant water was observed near road tanker trap.	To clean the stagnant water properly	221005_001	Yes	12-10-2022

Remark

	Name	Title	Signature	Date
Checked by	June Lau	ET Representative	$1/\gamma$	05 October 2022



Photo

Photo 221005_001 (near road tanker trap)	



Inspection Date : 1) - 10 - 74 : 14:30 Time : Sunny (Fine Cloudy / Overcast / Drizzle / Rain / Storm / Hazy Weather : Calm / Light / Breeze / Strong Wind Temperature Humidity High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	Asiand	Aug	Zut
Name:	75006 YON KILDI	S, W Junk	chan Hon La.
Title	DION/PS	Enell	Technician



Environmental Checklist		ement Stages	tation s*	Remark
			N/A	
Fugitive Dust Emission				
Dust control / mitigation measures shall be provided to prevent dust nuisance.	1			
A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	4			
Water sprays shall be provided and used to dampen materials.	\checkmark			
Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	1			
All vehicles shall be restrict to a maximum speed of 10 km per hour.				
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			
The designated site main haul road shall be paved or regular watering.	√			
Frequent watering of work site shall be at least three times per day.	1			
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.	V			
All plant and equipment should be well maintained e.g. without black smoke emission.	\checkmark			
Open burning should be prohibited.	\checkmark			
The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	4			
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 shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	V			
When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	\checkmark			
The belt scraper shall be equipped with bottom plates or other similar means to prevent failing of material from the return belt.	V			
The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	V			
 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			<u>, , , , , , , , , , , , , , , , , , , </u>
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	1	-	
Air compressors and hand held breakers should have noise labels.	7	1.	1	
	1		• • • • •	
	1	1		
Noisy equipment and mobile plant shall always be site away from NSRs.	V			



Environmental Checklist		ement Stages		ation Remark *	
	Yes	No	N/A		
Water Quality					
 Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 					
 The permanent drainage channels should have sediment basin, traps and baffles and maintain properly. 	V				
 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. 	V				
 Manholes should be covered and sealed. 	1				
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	1				
 A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front. 	1	:			
A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.	1		[
 The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	1			····	
 The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	V				
 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. 	V				
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	1				
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	1				
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	1				
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	1				
 Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas. 	V				
Oil interceptor shall be provided at work shop.	V			· · · · · · · · · · · · · · · · · · ·	
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	1				
 The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash. 	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. 	Ą				
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	\checkmark				
 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. 	V				
 The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities. 	7				
 Existing silt curtain at the outward side of the basin near the Barging Handling Area (BHA) throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse. 	4				
 A waste collection vessel shall be deployed to remove floating debris. 	\checkmark				



Environmental Checklist		emen [.] Stages		Remark
	Yes	No	N/A	
Landscape and Visual				
The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	V			
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. 	1			
 Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed. 	V			
 The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare. 	1			
Other Environmental Factors			İ.	
C&D waste sorted from mixed C&D material shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.	√			
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	1		1	
 Any unused materials or those with remaining functional capacity should be recycled and stored properly. 	1	1		
All generators, fuel and oil storage are within bundle areas.	1			
Oil leakage from machinery, vehicle and plant is prevented.	1	1		
The Environmental Permit should be displaced conspicuously on site.	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			
 To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce. 	4			



Summary of the Weekly Site Inspection:

ltem	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Follow up Date
01	Followed up Item 1 on 05/10/2022, stagnant water was cleaned.		221012_001	No	

Remark

 Name
 Title
 Signature
 Date

 Checked by
 June Lau
 ET Representative
 12 October 2022



<u>Photo</u>

Photo 221012_001 (near road tanker trap)	

CEDD Contract No.: CV/2021/09

Handling of Surplus Public Fill (2022-2023) - Tseung Kwan O Area 137 Fill Bank

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

Inspection Date : 19 - 10 - 2214:30 Time : Sunny / Einer Cloudy / Overcast / Drizzle / Rain / Storm / Hazy Weather : Calm / Kight/ Breeze / Strong Wind : 24 Temperature High / Moderate / Low Humidity

 Inspected by
 CEDD
 Contractor / Sub-Contactor
 ET

 Signature:
 Max
 Max
 Max

 Name:
 ML. Mole
 Subslime
 Char Hon Lieu

 Title
 Azow Aps
 Ten And
 Technician



	Environmental Checklist	Implementation Stages*			Remark
	Entholmontal oncodinot			N/A	
Fug	itive Dust Emission		iy		
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	\checkmark			
•	A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	4			
•	Water sprays shall be provided and used to dampen materials.	√			
•	Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.				
•	All vehicles shall be restrict to a maximum speed of 10 km per hour.	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			
Ψ	The designated site main haul road shall be paved or regular watering.	\checkmark			
	Frequent watering of work site shall be at least three times per day.	1			
•	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.	√			
•	All plant and equipment should be well maintained e.g. without black smoke emission.	\checkmark		<u> </u>	
•	Open burning should be prahibited.	\checkmark			
u .	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	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 shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	1			
•	When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	√			
	The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	1		1	
•	The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	1			
T	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).	<u>۲</u>			
Noi	se Impact				
•	The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	_ √			
•	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	1		
	Air compressors and hand held breakers should have noise labels.	1	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	+	<u> </u>	
	Noisy equipment and mobile plant shall always be site away from NSRs.	1		-	



Environmental Checklist		emen Stages		Remark
			 N/A	1
Water Quality				
 Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	V		:	
 The permanent drainage channels should have sediment basin, traps and baffles and maintain properly. 	1	1		··· · · · ·
 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. 	1			
Manhoies should be covered and sealed.	1			
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	1			
 A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front. 	√		<u> </u>	
 A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront. 	1			· · · · · · · · · · · · · · · · · · ·
 The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	V	1		
 The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	$\overline{}$	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			
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 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. 	V			
 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. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	V			
 Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas. 	1			
Oil interceptor shall be provided at work shop.	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			
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 A waste collection vessel shall be deployed to remove floating debris. 	1			



Environmental Checklist		emen Stage:		Remark
	Yes	No	N/A	
Landscape and Visual		· .	ىتۇرنىيىدى .	
The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	1			
 The maximum stockpilling height at the fill bank shall be limited to a maximum of +35.2mPD. 	1			
 Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed. 	V			
 The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare. 	1			
Other Environmental Factors				
 C&D waste sorted from mixed C&D material shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal. 	V			
 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	1			
 Any unused materials or those with remaining functional capacity should be recycled and stored properly. 	1			
All generators, fuel and oil storage are within bundle areas.	1			
Oil leakage from machinery, vehicle and plant is prevented.	1			
The Environmental Permit should be displaced conspicuously on site.	1	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			
 To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce. 	4			



Summary of the Weekly Site Inspection:

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

Remark

	Name	Title	Signature	Date
			/	
Checked by	June Lau	ET Representative		19 October 2022
			1 pe	

CEDD Contract No.: CV/2021/09



Inspection Date	:	26/10/22
Time	:	14=30
Weather	:	Sunny / Eine) / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind	:	Calm / (ight) Breeze / Strong
Temperature	:	24%
Humidity	:	High / Moderate /vow

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	Fron	Acro	A.b
Name:	Tronto Yon Wend	6-wscab	Vlak
			Mak Ker War
Title	ALON/PB	Griffn	ЕЛ



Environmental Checklist		ement Stages	tation s*	Remark
		No		
Fugitive Dust Emission				
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	\checkmark			
 A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed. 	V			
 Water sprays shall be provided and used to dampen materials. 	1			
 Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions. 	1			
All vehicles shall be restrict to a maximum speed of 10 km per hour.	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. 	4			
 The designated site main haul road shall be paved or regular watering. 	1			
 Frequent watering of work site shall be at least three times per day. 	√			
 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. 	1			
 All plant and equipment should be well maintained e.g. without black smoke emission. 	1			
Open burning should be prohibited.	1			
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	v V			
Noisy equipment and mobile plant shall always be site away from NSRs.	<u> </u>			<u> </u>



Environmental Checklist		emen Stage:		Remark	
			N/A		
Water Quality			1		
 Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	√		*****		
 The permanent drainage channels should have sediment basin, traps and baffles and maintain properly. 	1		1		
 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. 	1				
 Manholes should be covered and sealed. 	1				
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	1		1	· · · · · · · · · · · · · · · · · · ·	
 A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpilling area and the sea front. 	1				
A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.	1	<u> </u>	-		
 The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	7				
 The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	1				
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 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. 	V				
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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.	4				
 All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport. 	4				
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	\checkmark				
 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				
 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. 	4				
 Existing silt curtain at the outward side of the basin near the Barging Handling Area (BHA) throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse. 	V				
 A waste collection vessel shall be deployed to remove floating debris. 	1	[



Environmental Checklist		emen Stage		Remark
	Yes	No	N/A	
Landscape and Visual				
 The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided. 	1			
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. 	1			
 Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed. 	1			
 The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare. 	4			
Other Environmental Factors		. :		
 C&D waste sorted from mixed C&D material shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal. 	4			
 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	1			
 Any unused materials or those with remaining functional capacity should be recycled and stored properly. 	1			
All generators, fuel and oil storage are within bundle areas.	1			
Oil leakage from machinery, vehicle and plant is prevented.	\checkmark	1		
The Environmental Permit should be displaced conspicuously on site.	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			
 To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce. 	4			



Summary of the Weekly Site Inspection:

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

Remark

	Name	Title	Signature	Date					
Checked by	June Lau	ET Representative	A	26 October 2022					



Appendix I

Implementation Schedule of Mitigation Measures



Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O Area 137 Fill Bank Contract No.: CV/2021/09

Environmental Mitigation Implementation Schedule

	· · ·			Implementat	ion Status	
	Environmental Protection Measures	Location	Implemented	Partially implemented	Not implemented	Not Applicable
A	ir Quality					
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	All areas		\checkmark		
•	A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	Northern Site Boundary				
•	Water sprays shall be provided and used to dampen materials.	All areas	\checkmark			
•	Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	All areas	\checkmark			
•	All vehicles shall be restrict to a maximum speed of 10 km per hour.	All areas	\checkmark			
•	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.	Site Egress				
•	The designated site main haul rout shall be paved or regular watering.	All haul roads	\checkmark			
•	Frequent watering of work site shall be at least three times per day.	All areas	\checkmark			
•	Wheel washing facilities including high pressure water jet shall be provided at the entrance of work site.	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	\checkmark			
•	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	All areas	\checkmark			
•	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.	All areas	\checkmark			
•	When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	C&DMSF	\checkmark			
•	The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	C&DMFS	\checkmark			
•	The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	C&DMFS	\checkmark			
•	All plant and equipment should be well maintained e.g. without black smoke emission.	All areas	\checkmark			
•	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		\checkmark		
N	pise Impact					
•	Approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	All areas				
•	Only well maintained plant should be operated on-site and plant should be serviced regularly during the site 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 months or should be throttled down to a minimum.	All areas	\checkmark			
	Noisy equipment and mobile plant shall always be site away from NSRs.	All areas				



Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O Area 137 Fill Bank Contract No.: CV/2021/09

				Implementat	ion Status	
	Environmental Protection Measures	Location	Implemented	Partially implemented	Not implemented	Not Applicable
W	ater Quality					
•	Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	All areas	\checkmark			
•	The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	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			
•	Manholes should be covered and sealed.	All areas	\checkmark			
•	Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	All areas		\checkmark		
•	A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.	Public fill stockpiling area	\checkmark			
•	A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.	C&DMFS	\checkmark			
•	The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	All areas	\checkmark			
•	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	Temporary Slopes	\checkmark			
•	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.	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.	Wheel Washing facility	\checkmark			
•	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.	All areas	\checkmark			
•	Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas and work shop.	All areas	\checkmark			
•	Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	Barge Handling Area (BHA)	\checkmark			
•	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.	Barge Handling Area (BHA)	\checkmark			
•	All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	Barge Handling Area (BHA)	\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			
•	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.	Barge Handling Area (BHA)	\checkmark			
•	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.	Along the seafront	\checkmark			
	Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	Along the seafront	\checkmark			
•	A waste collection vessel shall be deployed to remove floating debris.	Along the seafront	\checkmark			



Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O Area 137 Fill Bank Contract No.: CV/2021/09

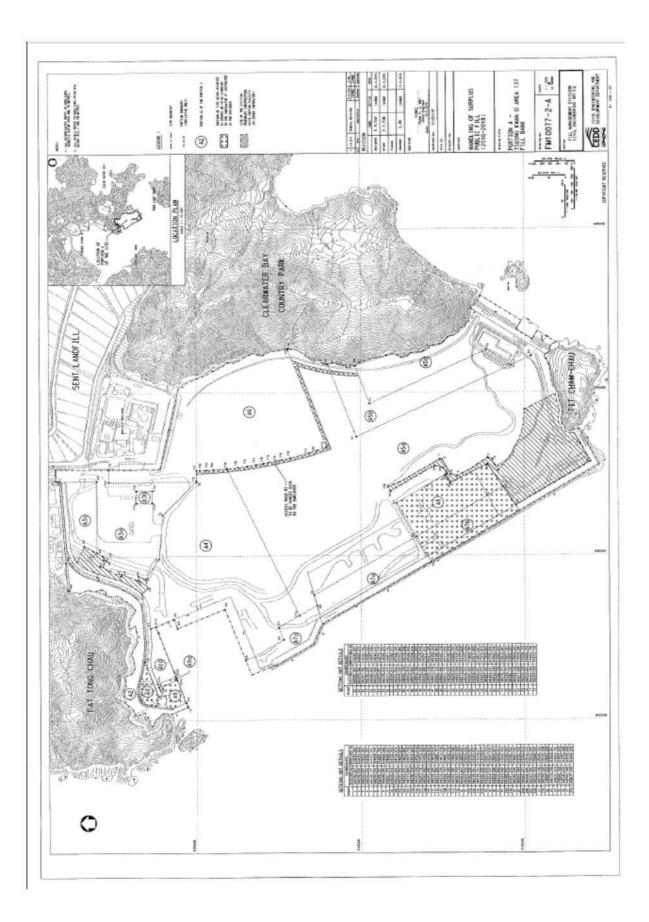
			Implementati	on Status	
Environmental Protection Measures	Location	Implemented	Partially implemented	Not implemented	Not Applicable
Landscape and Visual					
• The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	All areas	\checkmark			
• The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	Completed slopes	\checkmark			
• Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.	Site boundary	\checkmark			
• The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	All areas	\checkmark			
Other Environmental Factors					
C&D waste sorted from mixed C&D material shall be transfer to SENT landfill for disposal.	All areas	\checkmark			
Plan and stock construction materials carefully to minimise generation of waste.	All areas	\checkmark			
Any unused materials or those with remaining functional capacity should be recycled.	All areas	\checkmark			
All generators, fuel and oil storage are within bunded areas.	All areas	\checkmark			
Oil leakage from machinery, vehicle and plant is prevented.	All areas		\checkmark		
The Environmental Permit should be displaced conspicuously on site.	All areas	\checkmark			
Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	All areas	\checkmark			
To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	All areas				



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	stes Generated Mo	nthly
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

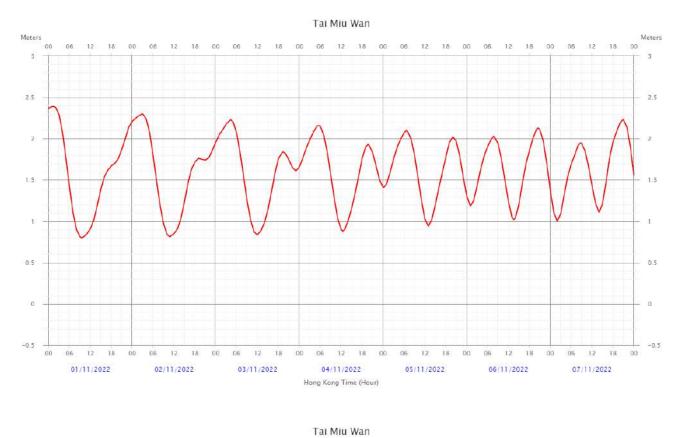
Time Schedule for Impact Water Quality Monitoring (WQM), Impact Air Monitoring (1-hrTSP, 24-hr TSP and 24-hr RSP), Weekly Site Inspection (Weekly SI) and Impact Noise Monitoring November 2022

1-hr TSP x 1	11-Oct 24 hr TSP 24-hr RSP WQM Mid-ebb (08:00-10:00) Mid-flood (14:00-16:00)	<u>1-Nov</u>	1-hr TSP x 2 Weekly SI (pm)	2-Nov	WQM	3-Nov	1-hr TSP x 1	4-Nov		5-N
	24-hr RSP WQM Mid-ebb (08:00-10:00) Mid-flood		-		WQM		1-hr TSP x 1			
	Mid-ebb (08:00-10:00) Mid-flood				WQM					
	Mid-flood				Mid-ebb				WQM Mid-ebb	
	(14:00-16:00)				(08:30-10:30) Mid-flood				(09:00-11:00) Mid-flood	
	7-Nov	8-Nov		9-Nov	(14:30-16:30)	10-Nov		11-Nov	(15:00-17:00)	12-1
24 hr TSP 24-hr RSP		<u>8-1NOV</u>	1-hr TSP x 2 Weekly SI (pm)	9-1100			1-hr TSP x 1	TI-INOV	24 hr TSP 24-hr RSP	12-1
WQM Mid-ebb (10:30-12:30) Mid-flood			WQM Mid-ebb (11:30-13:30) Mid-flood (17:00-19:00)				Mid-flood (08:00-10:00) Mid-ebb			
	4-Nov	15-Nov		16-Nov		17-Nov	(10.00 10.00)	18-Nov		19-1
1-hr TSP x 2			1-hr TSP x 1 Weekly SI (pm)							
	WQM Mid-ebb (07:30-09:00) Mid-flood (13:00-15:00)				WQM Mid-ebb (08:00-10:00) Mid-flood (14:00-16:00)				WQM Mid-ebb (09:00-11:00) Mid-flood (14:00-16:00)	
2	1-Nov	22-Nov		23-Nov		24-Nov		25-Nov	, , , , , , , , , , , , , , , , , , ,	26-
1-hr TSP x 2			1-hr TSP x 1 Weekly SI (pm)		24 hr TSP 24-hr RSP		1-hr TSP x 2			
WQM Mid-ebb (09:30-11:30) Mid-flood (15:30-17:30)			WQM Mid-ebb (10:30-12:30) Mid-flood (16:30-18:30)				Mid-flood (08:00-10:00)			
2	8-Nov	29-Nov		30-Nov		1-Dec		2-Dec		3-
1-hr TSP x 1 WQM Mid-flood (10:00-12:00) Mid-ebb			24 hr TSP 24-hr RSP Weekly SI (pm) WQM Mid-flood (12:30-14:30) Mid-ebb				1-hr TSP x 2			
	VM VQM //id-ebb 10:30-12:30) //id-flood 16:00-18:00) 1-hr TSP x 2 //hr TSP x 2 //QM //id-ebb 09:30-11:30) //id-flood 15:30-17:30) 2 /-hr TSP x 1 //QM //id-flood 10:00-12:00) //id-ebb 14:00-16:00)	VM VQM //id-ebb 10:30-12:30) //id-flood 16:00-18:00) 14-Nov I-hr TSP x 2 WQM //id-ebb (07:30-09:00) //id-flood (13:00-15:00) 21-Nov I-hr TSP x 2 VQM //id-ebb 09:30-11:30) //id-flood 15:30-17:30) 28-Nov I-hr TSP x 1 VQM //id-flood 15:30-17:30) 28-Nov I-hr TSP x 1 // M // M // Id-bb 14:00-16:00)	JM WQM Vid-ebb 10:30-12:30) /iid-flood 15:Nov /iid-flood 15:Nov I-hr TSP x 2 WQM Mid-ebb (07:30-09:00) Mid-flood (13:00-15:00) 21-Nov 22-Nov I-hr TSP x 2 VQM Mid-flood 15:00-11:00) 21-Nov 22-Nov VQM 10:30-11:30) /id-flood 28-Nov 28-Nov 29-Nov I-hr TSP x 1 VQM /id-flood 10:00-12:00) /id-flood 10:00-12:00) /id-ebb 14:00-16:00)	JM WQM WQM WQM Mid-ebb Mid-ebb 10:30-12:30) Mid-flood 11:30-13:30) Mid-flood 16:00-18:00) 15-Nov 1-hr TSP x 2 1-hr TSP x 1 WQM Mid-ebb (07:30-09:00) Mid-flood (13:00-15:00) 1-hr TSP x 1 VQM WQM Mid-flood (13:00-15:00) 21-Nov 22-Nov I-hr TSP x 1 1-hr TSP x 1 WQM Mid-ebb (07:30-09:00) Mid-flood (13:00-15:00) 1-hr TSP x 1 VQM WQM Mid-flood (16:30-18:30) 10:30-17:30) (16:30-18:30) 28-Nov 29-Nov I-hr TSP x 1 24 hr TSP VQM WQM Mid-flood (10:30-12:30) 10:00-12:00) (12:30-14:30) Mid-flood (12:30-14:30) 10:00-12:00) (17:00-19:00)	JM WQM WQM WQM Mid-ebb Mid-ebb 10:30-12:30) Mid-flood Aid-flood (11:30-13:30) Mid-flood (17:00-19:00) 14-Nov 15-Nov 1-hr TSP x 2 1-hr TSP x 1 WQM Mid-flood (07:30-09:00) Mid-flood (07:30-09:00) Mid-flood (13:00-15:00) 21-Nov 21-Nov 22-Nov 21-Nov 22-Nov VQM WQM Mid-ebb (07:30-09:00) Mid-flood (13:00-15:00) 1-hr TSP x 1 Weekly SI (pm) VQM WQM Mid-flood (16:30-18:30) 09:30-11:30) (16:30-18:30) 1/-hr TSP x 1 24 hr TSP VQM WQM Nid-flood (16:30-18:30) 10:00-12:00) (12:30-14:30) Mid-flood (17:00-19:00)	MM WQM WQM Mid-bb 10:30-12:30) Mid-flood 10:30-12:30) (11:30-13:30) Mid-flood 16:00-18:00) 14-Nov 15-Nov 16-Nov 14-hr TSP x 2 1-hr TSP x 1 Weekly SI (pm) 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1-Dec VQM Mid-flood (16:30-18:30) 1-Dec 1-Dec 1-hr TSP x 1 <td>MM WQM WQM WQM WQM Videbb WQM WQM WQM Mid-bbb Mid-bbb (08:00-10:00) Mid-flood (11:30-13:30) Mid-flood 16:00-18:00) 14-Nov 15-Nov 16-Nov 17-Nov I-hr TSP x 2 I-hr TSP x 1 Weekly SI (pm) WQM 24 hr TSP WQM Mid-ebb (07:30-99:00) Mid-flood (14:00-16:00) 24-hr RSP I-hr TSP x 2 I-hr TSP x 1 Weekly SI (pm) WQM Mid-ebb (08:00-10:00) Mid-flood (13:00-15:00) 1-hr TSP x 1 24 hr TSP 24-hr RSP VQM WQM WQM WQM (14:00-16:00) WQM Mid-flood (13:00-15:00) 1-hr TSP x 1 24 hr TSP 1-hr TSP x 2 VQM WQM Mid-flood (14:00-16:00) Mid-flood (13:00-17:30) 10:60:13:30 24 hr TSP 1-hr TSP x 2 VQM Mid-flood (13:30-18:30) (13:30-16:30) 1:hr TSP x 1</td> <td>MM WQM WQM WQM WQM WQM WQM Mid-flood 10:30-12:30) (11:30-13:30) (08:00-10:00) Mid-flood 16:00-18:00) (17:00-19:00) (13:00-15:00) (13:00-15:00) 14-Nov 15-Nov 16-Nov 17-Nov 18-Nov 1-hr TSP x 2 1-hr TSP x 1 24 hr TSP 24 hr RSP WQM Mid-ebb (08:00-10:00) Mid-ebb (13:00-15:00) 1-hr TSP x 2 1-hr TSP x 1 WQM WQM Mid-ebb (13:00-15:00) 1-hr TSP x 1 WQM Mid-ebb 24-hr RSP VQM (13:00-15:00) 1-hr TSP x 1 24 hr TSP 24-hr RSP 1-hr TSP x 2 VQM WQM Mid-ebb (14:00-16:00) 24-hr RSP VQM Mid-ebb (16:30-12:30) Mid-flood (08:00-10:00) 16-hor TSP x 1 24 hr TSP (13:00-15:00) (13:00-15:00) (13:00-15:00) 16-hor C3:018:30) (16:30-18:30) (13:00-15:00) (13:00-15:00) (13:00-15:00)</td> <td>NM WQM WQM WQM Wid-ebb Mid-ebb Mid-bbb Mid-flood 10:30-12:30) (11:30-13:30) Mid-flood (08:00-10:00) 16:00-18:00) (17:00-19:00) (13:00-15:00) (13:00-15:00) 1-hr TSP x 2 1-hr TSP x 1 WQM WQM WQM Mid-ebb (08:00-10:00) Mid-ebb (07:30-09:00) Mid-ebb (08:00-10:00) Mid-ebb (07:30-09:00) Mid-ebb (08:00-10:00) Mid-ebb (14:00-16:00) 24-hr TSP 24-hr RSP WQM 1-hr TSP x 1 WQM WQM Mid-ebb (09:00-11:00) (14:00-16:00) 14-hr TSP x 1 WQM WQM Mid-ebb (07:30-19:00) 1-hr TSP x 1 Yeekly SI (pm) 24-hr RSP 1-hr TSP x 2 VQM WQM Mid-flood (14:00-16:00) (14:00-16:00) (14:00-16:00) 1-hr TSP x 2 1-hr TSP x 1 Yeekly SI (pm) WQM (16:30-18:30) (13:00-15:00) 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TSP x 1 WQM Mid-ebb 24-hr RSP VQM (13:00-15:00) 1-hr TSP x 1 24 hr TSP 24-hr RSP 1-hr TSP x 2 VQM WQM Mid-ebb (14:00-16:00) 24-hr RSP VQM Mid-ebb (16:30-12:30) Mid-flood (08:00-10:00) 16-hor TSP x 1 24 hr TSP (13:00-15:00) (13:00-15:00) (13:00-15:00) 16-hor C3:018:30) (16:30-18:30) (13:00-15:00) (13:00-15:00) (13:00-15:00)	NM WQM WQM WQM Wid-ebb Mid-ebb Mid-bbb Mid-flood 10:30-12:30) (11:30-13:30) Mid-flood (08:00-10:00) 16:00-18:00) (17:00-19:00) (13:00-15:00) (13:00-15:00) 1-hr TSP x 2 1-hr TSP x 1 WQM WQM WQM Mid-ebb (08:00-10:00) Mid-ebb (07:30-09:00) Mid-ebb (08:00-10:00) Mid-ebb (07:30-09:00) Mid-ebb (08:00-10:00) Mid-ebb (14:00-16:00) 24-hr TSP 24-hr RSP WQM 1-hr TSP x 1 WQM WQM Mid-ebb (09:00-11:00) (14:00-16:00) 14-hr TSP x 1 WQM WQM Mid-ebb (07:30-19:00) 1-hr TSP x 1 Yeekly SI (pm) 24-hr RSP 1-hr TSP x 2 VQM WQM Mid-flood (14:00-16:00) (14:00-16:00) (14:00-16:00) 1-hr TSP x 2 1-hr TSP x 1 Yeekly SI (pm) WQM (16:30-18:30) (13:00-15:00) (13:00-15:00) (13:00-15:00) (13:00-15

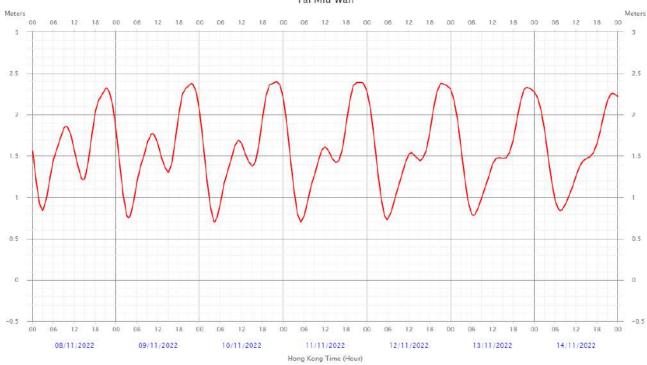
1. RSP measurement is not required in the EM&A manual and RSP would not presented in EM&A report.
2. Water quality monitoring (Mid-Flood & Ebb) on 01/11/2022 was cancelled due to the adverse weather condition (The Tropical Cyclone Signal No.3). Only two days of water quality monitoring are conducted in the first week of November.



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

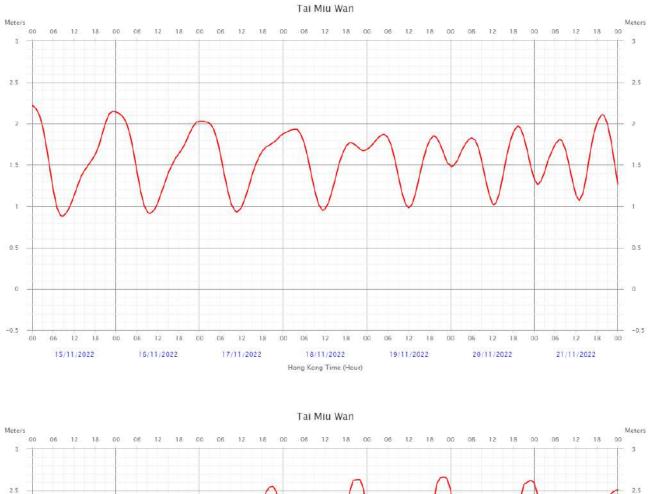


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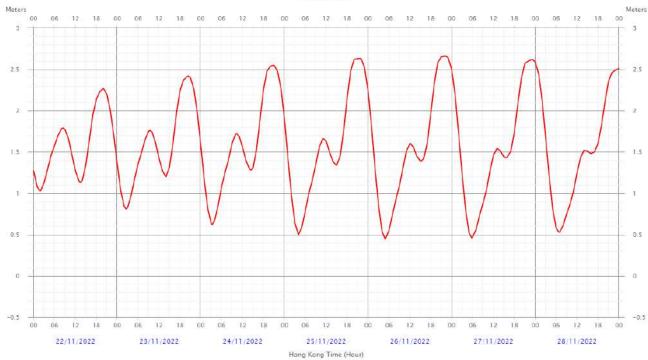




Predicted tide schedule from the Hong Kong Observatory for Impact Water Quality Monitoring (WQM)

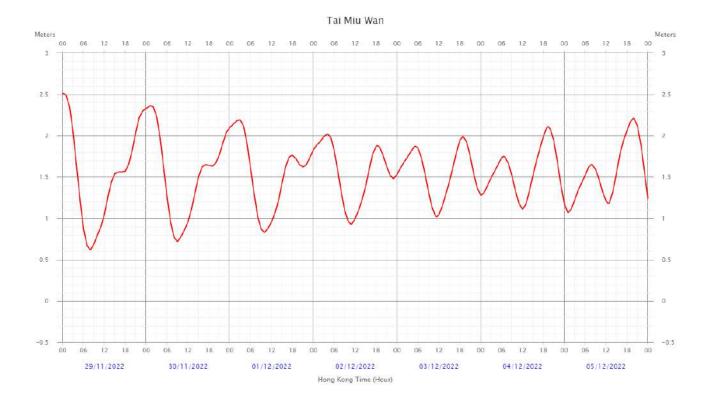


November 2022





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 Monitoring October 2022

Oundau	Manadau	Turadau	Made as day.	Thumsday	Faidau	Ostundau
Sunday 25-Sep	Monday 26-Se	Tuesday 27-Sep	Wednesday 28-Sep	Thursday 29-Sep	Friday 30-Sep	Saturday 1-Oct
25-5ep	20-30	27-Sep	20-3ep	29-3ep	30-Seb	1-001
	1-hr TSP x 1		24 hr TSP		1-hr TSP x 3	
	1-11/13/21				1-11/13/23	
			24-hr RSP			
			Weekly SI (pm)			
	WQM		WQM		WQM	
	Mid-ebb		Mid-flood		Mid-flood	
	(11:00-13:00)		(08:00-10:00)		(09:30-11:30)	
	Mid-flood		Mid-ebb		Mid-ebb	
	(17:30-19:30)		(13:00-15:00)		(14:30-16:30)	
2-Oct	3-00	t 4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
	24 hr TSP		1-hr TSP x 2		1-hr TSP x 1	24 hr TSP
	24-hr RSP		Weekly SI (pm)			24-hr RSP
	NM		, u ,			
	WQM		WQM		WQM	
	Mid-ebb		Mid-ebb		Mid-ebb	
	(08:00-10:00)		(09:00-11:00)		(09:30-11:30)	
	Mid-flood		Mid-flood		Mid-flood	
	(14:00-16:00)		(15:00-17:00)		(16:00-18:00)	
9-Oct	10-00	t 11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
	1-hr TSP x 2		1-hr TSP x 1			
	1-111 13F X Z		Weekly SI (pm)		24 hr TSP 24-hr RSP	
			weekiy Si (pili)		24-111 КОГ	
	WQM		WQM		WQM	
	Mid-ebb		Mid-flood		Mid-flood	
	(11:00-13:00)		(09:00-11:00)		(09:00-11:00)	
	Mid-flood		Mid-ebb		Mid-ebb	
	(16:30-18:30)		(13:00-15:00)		(13:30-15:30)	
16-Oct	17-Oc	t 18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
	1-hr TSP x 2		1-hr TSP x 1	24 hr TSP	1-hr TSP x 2	
			Weekly SI (pm)	24-hr RSP		
		WQM		WQM		WQM
		Mid-ebb		Mid-ebb		Mid-ebb
		(08:00-10:00)		(09:00-11:00)		(09:30-11:30)
		Mid-flood		Mid-flood		Mid-flood
23-Oct	24-00	(14:00-16:00) t 25-Oct	26-Oct	(15:00-17:00) 27-Oct	28-Oct	(15:30-17:30) 29-Oct
20-001	24-00	20-001	20-001	27-000	20-00	23-001
	1-hr TSP x 1		24 hr TSP		1-hr TSP x 2	
			24-hr RSP			
			Weekly SI (pm)			
	WQM		WQM		WQM	
	Mid-ebb		Mid-ebb		Mid-flood	
	(10:30-12:30)		(11:30-13:30)		(09:00-11:00)	
	Mid-flood		Mid-flood		Mid-ebb	
00.0-1	(16:00-18:00)	4 100	(16:30-18:30)		(13:00-15:00)	
30-Oct	31-Oc	t 1-Nov				
	1-hr TSP x 1					
		WQM				
		Mid-ebb				
		(08:00-10:00)				
		Mid-flood				
	1	(14:00-16:00)	1	1		1

Remark:

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

Complaint Log



Complaint Logs

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
001	Barge handling area (BHA) at Tseung Kwan O 137	15 May 2017	One complaint received on 15 May 2017, which was forwarded to ET on 11 August 2017, from CEDD (Complaint NCF- N08/RE/00014875-17 Sent By CSO[RN]3 [CASE#2- 3943858817 Int.Comm. – WS170513A57354] against illegal dumping at sea without permit in TKO137 fill bank.	 Refer to the ET site investigation on 14 August 2017, the contractor clarified that the contractor conducted vessel loading test at Tseung Kwan O 137 Fill bank on 13 May 2017 and the material was then unloaded from the vessels. Follow up action to complaint by ET and contractor: Contractor under the valid dumping permit to dump fill materials and the site works shall be complied with the relevant environmental protection and pollution control ordinances. ET reminded contractor that the dump fill material under the valid dumping permit should be checked and confirmed. In addition, record should be kept for ET reference. Details of Action(s) Taken by the Contactor: The contractor started to dump fill materials from 19 May 2017 after receiving the valid dumping permit. The contractor dump fill materials were followed by the valid dumping permit and the permit was kept apply every three month The contractor kept the permit for ET reference. 	Closed
002	Tseung Kwan O 137 Fill Bank	12 Oct 2017	One complaint received on 12 October 2017, which was forwarded to ET on 18 October 2017, from public against dust emission at the fill bank and discharge of muddy water to the seafront.	 Refer to the ET weekly site inspection on 18 October 2017, no defective observation related to dust emission and discharge of water 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; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; 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; Silt curtains are provided at the outward side of the basin near the Fill Bank; Drainage systems are adequate and maintained to prevent flooding and overflow; Catchpits, sand and silt removal facilities and intercepting channels are maintained and functioning properly. 	Closed



003	Tseung Kwan O 137 Fill Bank	09 April 2018	One complaint received on 09 April 2018, which was forwarded to ET on 18 April 2018, from public against the rocks and debris deposited on the road surface along Wan Po Road near TKO137 Fill Bank. The complainant complained that waste generated caused an environmental nuisance.	 Refer to the ET site investigation on 20 April 2018, the condition of Wan Po Road near TKO137 Fill Bank was found satisfactory. (Photos on ET follow-up investigation at TKO137 Fill Bank on 20 April 2018). Details of Action(s) Taken by the Contactor: Regular cleaning on Wan Po Road and the access road at the site exit by haul road cleaning team to remove mud and gravel is arranged eight times per month; Regular water spraying by water lorries is provided for road cleaning at Wan Po 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
004	Tseung Kwan O 137 Fill Bank	13 January 2019	One complaint received on 13 January 2019, which was forwarded to ET on 16 January 2019, from EPD (NCF-N08/RE/00001348- 19) against 將軍澳137 堆填 區內,缸車池污水,不經處 理,直接排到河道,河道係 直接流出大海,極度嚴重影 響周遭環境生態,污染程度 極為嚴重,促請政府有關部 門嚴正跟進!	 After received the details of the complaint from the Contractor on 16 January 2019, ET have performed a site investigation on 21 January 2019 to investigate this event. During the site inspection, no muddy water was observed discharged from the Fill Bank to nearby environment. Besides, refer to the marine water monitoring results during that period, no exceedance was recorded on Turbidity and Suspended Solids. This reflects that this occurrence did not affect the condition of marine water near the TKO137Fill Bank. Details of Action(s) Taken by the Contactor: Drainage system were adequate and well maintained to prevent flooding and overflow; Sand and silt removal facilities, e.g. silting screen, were provided before the discharge point; Temporary intercepting drains were used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers were used to assist the diversion of polluted stormwater to the intercepting channels; Catchpits and intercepting channels were maintained, and the deposited silt and grit were 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; 	Closed



005	Tseung Kwan O 137 Fill Bank	14 May 2019	One complaint received on 14 May 2019, which was forwarded to ET on 14 May 2019, from public against 投訴將軍澳第 137 區填料 庫,有車出入沒有灑水傳出 大量沙塵,破壞環境,帶出 大量沙泥到馬路,造成污染 及嚴重滋擾,要求跟進。要 求改善,停止滋擾	 Refer to the ET site investigation on 15 May 2019, the condition of Wan Po Road near TKO137 Fill Bank was found satisfactory. (Photos on ET follow-up investigation at TKO137 Fill Bank on 15 May 2019). Details of Action(s) Taken by the Contactor: Regular cleaning on Wan Po Road and the access road at the site exit by haul road cleaning team to remove mud and gravel is arranged eight times per month; Regular water spraying by water lorries is provided for road cleaning at Wan Po 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
006	Tseung Kwan O 137 Fill Bank	11 June 2019	One complaint received on 04 June 2019, which was forwarded to ET on 11 June 2019, from public regarding the muddy water problem at 137 fill bank.	 After received the details of the complaint from the Contractor on 11 June 2019, ET have performed a site investigation on 14 June 2019 to investigate this event. During the site inspection, no muddy water was observed discharged from the Fill Bank to nearby environment. Besides, refer to the marine water monitoring results during that period, no exceedance was recorded on Turbidity and Suspended Solids during the concerning period. This reflects that this occurrence did not affect the condition of marine water near the TKO137Fill Bank. Details of Action(s) Taken by the Contactor: Drainage system were adequate and well maintained to prevent flooding and overflow; Sand and silt removal facilities, e.g. silting screen, were provided before the discharge point; Temporary intercepting drains were used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers were used to assist the diversion of polluted stormwater to the intercepting channels were maintained, and the deposited silt and grit were 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; 	Closed



007	Tseung Kwan O 137 Fill Bank	27 June 2019	One complaint received on 27 June 2019, which was forwarded to ET on 28 June 2019, from public against dust emission at the fill bank. The complainant complained that the dust caused an environmental nuisance.	 Refer to the ET site investigation on 02 July 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 24 to 28 June 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed
008	Tseung Kwan O 137 Fill Bank	17 July 2019	One complaint received on 17 July 2019, which was forwarded to ET on 17 July 2019, from public against 投訴將軍澳堆填 137 區及收 泥頭區,於運作時產生大量 沙塵,嚴重污染周圍環境及 影響行人,情況已持續發生 了幾日	 Refer to the ET site investigation on 19 July 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 2 to 17 July 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed



009	Tseung Kwan O 137 Fill Bank	26 July 2019	One complaint received on 26 July 2019, which was forwarded to ET on 26 July 2019, from public against 投訴將軍澳第 137 區填料 庫,大風吹起引致塵埃飛 揚,更吹到 TVB,造成嚴重 滋擾,要求跟進及回覆。	 Refer to the ET site investigation on 29 July 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 23 to 29 July 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed
010	Tseung Kwan O 137 Fill Bank	09 September 2019	One complaint received on 09 September 2019, which was forwarded to ET on 09 September 2019, from public against 投訴將軍澳第 137 區填料庫,大風吹起引 致塵埃飛揚,更吹到日出康 城,造成嚴重滋擾,要求跟 進及回覆。	 Refer to the ET site investigation on 11 September 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 1 to 13 September 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed



011	Tseung Kwan O 137 Fill Bank	10 September 2019	One complaint received on 10 September 2019, which was forwarded to ET on 10 September 2019, from public against 投訴將軍澳 137 區經常於處理建築廢料時 沒有灑水,導致沙塵滾滾,嚴 重污染環境,要求環保署跟進 及回覆。	 Refer to the ET site investigation on 11 September 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 1 to 13 September 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed
012	Tseung Kwan O 137 Fill Bank	24 August 2021	One complaint received on 24 August 2021, which was forwarded to ET on 30 August 2021, from public against 投訴將軍澳第 137 區公眾填料庫,灑水不足, 泥頭車引起大量塵埃。	 Refer to the ET site investigation on 30 August 2021, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 20 August 2021 to 30 August 2021. Details of Action(s) Taken by the Contactor: Repairing work on water truck was conducted. Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed



013	Tseung Kwan O 137 Fill Bank	25 November 2021	A complaint was received on 25 November 2021, which was forwarded to ET by email on 26 November 2021, from public against 投訴將軍澳 137 公眾填料庫 地盤灑水不足,大量塵埃,吹 到 TVB 電視城一帶,問題一 直無改善,要求環保署跟進 及電郵回覆	 Refer to the ET site investigation on 29 November 2021, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 24 November 2021 to 29 November 2021. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site area are operated properly; Regular cleaning at the site haul road is provided to minimize the dust emission 	Closed
014	Tseung Kwan O 137 Fill Bank	18 July 2022	A complaint was received on 18 July 2022, which was forwarded to ET by email on 18 July 2022, from public against "投訴將軍澳 第 137 區填料庫的塵埃很 大,吹向四周,影響附近工 作的人,要求跟進及回覆"	 Refer to the ET site investigation on 20 July 2022, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 15 July 2022 to 20 July 2022. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site area are operated properly; Regular cleaning at the site haul road is provided to minimize the dust emission 	Closed



015	Tseung Kwan O 137 Fill Bank	08 August 2022	A complaint was received on 08 August 2022, which was forwarded to ET by email on 08 August 2022, from public regarding muddy discharge near the Area 137 Fill Bank and Sorting Facility.	 Refer to the EPD inspection on 09 August 2022, a large area of exposed soil was observed next to the surface channel connecting to the outfall. Soil may be washed down the surface channel and causes muddy discharge. Refer to the ET site investigation on 12 August 2022, no defective observation related to muddy discharge was recorded during investigation. Details of Action(s) Taken by the Contactor: Filers or baffles were added to the outfall to intercept soil and other pollutants in the water before discharge. Regular cleaning, especially the drainage system, was provided to prevent the runoff of muddy water. 	Closed
016	Tseung Kwan O 137 Fill Bank	12 August 2022	A complaint was received on 12 August 2022, which was forwarded to ET by email on 15 August 2022, from public against "I recently observed yellowish water flowing out to the sea, near the shore of the Tseung Kwan O Area 137 Fill Bank after rain in this week. Looking from outside the Area 137, there are a lot of soil exposed at the site. Could that be the source of soil being washed off to the sea?"	the water before discharge.	Closed



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017	Tseung Kwan O 137 Fill Bank	25 October 2022	A complaint was received on 25 October 2022, which was forwarded to ET by email on 25 October 2022, from public against "投訴將軍澳 137 區填料庫今日早上出現小龍 捲風將泥塵吹向小西灣一 帶"	related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor:	Closed



Figures

