



TEST REPORT



China Harbour Engineering Co Ltd

**Contract No.: CV/2023/10
Handling of Surplus Public Fill
(2024-2027)**

**TSEUNG KWAN O AREA 137 FILL BANK
MONTHLY EM&A REPORT NO.02**

(SEPTEMBER 2024)

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Environmental Permit (EP) No. EP-134/2002/Q
Fill Bank at Tseung Kwan O Area 137
Monthly EM&A Report for September 2024

Dear Sir,

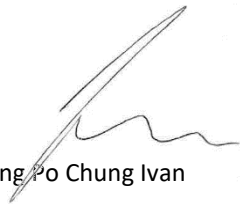
Pursuant to Condition 3.4 of Environmental Permit (EP) No. EP-134/2002/Q, please note the report "*Tseung Kwan O Area 137 Fill Bank Monthly EM&A Report No. 02 (September 2024)*" dated 8 October 2024 submitted under the EP, certified by the Environmental Team Leader on 8 October 2024, had been reviewed and is hereby verified.

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

Your faithfully,

For and on behalf of:

Umwelt Consulting Limited



Ting Po Chung Ivan

Independent Environmental Checker

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EXECUTIVE SUMMARY

This monthly Environmental Monitoring and Audit (EM&A) report No.02 was prepared by ETS-Testconsult Ltd (ET) for “Contract No: CV/2023/10 – Handling of Surplus Public Fill (2024-2027) – 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 September 2024.

Site Activities

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

1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);
2. Operation of dewatering plant at TKOFB;
3. Operation and Maintenance of Artificial Intelligent System for Crushing Number 2, 3 and 4 (Model QJ241) at TKOFB;
4. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;
5. Operation and maintenance of Wheel Washing Bays and Facilities 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. Operation and Maintenance a Digital Works Supervision System (DWSS) for TKOFB;
9. Maintenance of the Drainage Systems at TKOFB;
10. Operation and Maintenance of crushing plants at TKOFB;
11. Delivery of Public Fill to Taishan at TKOFB;
12. Construction of Gabion Wall at TKOFB;
13. Implementation of C Easy system at TKOFB (Phase 1)
14. Carry out GCO Probe test and SRT
15. Operation of recycling public fill as blanket layer material of reclamation projects – PMI No.70
16. PMI No. 94 – Post Geotechnical Monitoring at TKOFB
17. Construction of concrete access road to fixed rigid platform

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: 17 Occasions at 2 designated locations
- Marine Water Quality Monitoring: 13 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

No complaint, notification of summons or successful prosecutions with respect to environmental issues was received in this reporting period.

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/2023/10 –Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O (TKO) Area 137 Fill Bank” (The Project)”.

In accordance with the Environmental Permit (No.: EP-134/2002/Q) (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 the next reporting period;*
- *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 MaterialLab. 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 September 2024.

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.

Table 2.1 Contact Details of Key Personnel

| Organization | Name of Key Staff | Project Role | Tel. No. | Fax No. |
|----------------------|------------------------------------|------------------------------|--------------------------|-----------|
| CEDD | Mr. C W Au Yeung, Andrew Cheung | Engineer's Representative | 2623 9267 / 2762 5588 | 2714 0113 |
| IEC (Umwelt) | Mr. Ivan Ting | IEC | 3756 9590 | 3582 3310 |
| Contractor (CHZH-JV) | Zhou Chang Ying | Senior Project Manager | 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 Artificial Intelligent System for Crushing Number 2, 3 and 4 (Model QJ241) at TKOFB;
4. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;
5. Operation and maintenance of Wheel Washing Bays and Facilities 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. Operation and Maintenance a Digital Works Supervision System (DWSS) for TKOFB;
9. Maintenance of the Drainage Systems at TKOFB;
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14. Carry out GCO Probe test and SRT
15. Operation of recycling public fill as blanket layer material of reclamation projects – PMI No.70
16. PMI No. 94 – Post Geotechnical Monitoring at TKOFB
17. Construction of concrete access road to fixed rigid platform

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.

Table 4.1 Air Quality Monitoring Equipment

| Equipment | Model and Make |
|------------|-----------------------------|
| HVS | Graseby 105, Andersen G1051 |
| Calibrator | 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 4.2 Monitoring parameters, duration, frequency of air quality monitoring

| <i>Parameter</i> | <i>Duration</i> | <i>Frequency</i> |
|------------------|-----------------|---------------------------------------|
| <i>24-hr TSP</i> | <i>24 hr</i> | <i>Once every six days</i> |
| <i>1-hr TSP</i> | <i>1 hr</i> | <i>Three times per every six days</i> |

4.4 Monitoring Locations

Due to the operation of the SENTX Landfill Extension and Tseung Kwan O Desalination Plant, the ET started monitoring events at location TKO-A3 and TKO-A4 from 01 August 2024.

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

Table 4.3 Air quality monitoring locations

| <i>Monitoring station</i> | <i>Location</i> |
|---------------------------|-------------------------------|
| <i>TKO-A1</i> | <i>Site Egress</i> |
| <i>TKO-A2a</i> | <i>CREO</i> |
| <i>TKO-A3</i> | <i>A4 Gabion Wall</i> |
| <i>TKO-A4</i> | <i>TKO Desalination Plant</i> |

4.5 Monitoring Methodology

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

Instrumentation

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

Installation

The installation of HVS refers to the requirement stated in 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 recorded.

- Before weighting, all filters were equilibrated in a desiccator for 24 hour with the temperature of $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and the relative humidity (RH) $<50\% \pm 5\%$.
- 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-hr TSP and 1-hr TSP

| Monitoring Location | 24-hr TSP ($\mu\text{g}/\text{m}^3$) | | 1-hr TSP ($\mu\text{g}/\text{m}^3$) | |
|---------------------|--|-------------|---------------------------------------|-------------|
| | Action Level | Limit Level | Action Level | Limit Level |
| TKO-A1 | 210 | 260 | 376 | 500 |
| TKO-A2a * | 210 | 260 | 376 | 500 |
| TKO-A3 | 210 | 260 | 376 | 500 |
| TKO-A4 | 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 MaterialLab) 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.

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 4.5 and 4.6 respectively.

Table 4.5 Summary of 1-hr TSP monitoring results

| Monitoring Location | Average ($\mu\text{g}/\text{m}^3$) | Range ($\mu\text{g}/\text{m}^3$) | Action Level ($\mu\text{g}/\text{m}^3$) | Limit Level ($\mu\text{g}/\text{m}^3$) |
|---------------------|--------------------------------------|------------------------------------|---|--|
| TKO-A1 | 241 | 223-257 | 376 | 500 |
| TKO-A2a | 245 | 227-261 | | |
| TKO-A3 | 122 | 92-138 | | |
| TKO-A4 | 115 | 86-126 | | |

Table 4.6 Summary of 24-hr TSP monitoring results

| Monitoring Location | Average ($\mu\text{g}/\text{m}^3$) | Range ($\mu\text{g}/\text{m}^3$) | Action Level ($\mu\text{g}/\text{m}^3$) | Limit Level ($\mu\text{g}/\text{m}^3$) |
|---------------------|--------------------------------------|------------------------------------|---|--|
| TKO-A1 | 140 | 132-148 | 210 | 260 |
| TKO-A2a | 144 | 135-153 | | |
| TKO-A3 | 56 | 47-69 | | |
| TKO-A4 | 51 | 40-64 | | |

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 (L_{eq}) and percentile sound pressure level (L_x). It complies with International Electro Technical Commission Publications IEC 61672 Type 1 specification, and speed in m/s was used to monitor the wind speed.

Table 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 Equipment

| 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, Frequencies and Parameters of Noise Monitoring

| 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 5.3 Noise 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.

Table 5.4 Action and Limit Levels for noise monitoring

| <i>Time Period</i> | <i>Action</i> | <i>Limit</i> |
|---|--|-----------------|
| <i>0700-1900 hrs on normal weekdays</i> | <i>When one documented complaint is received</i> | <i>75 dB(A)</i> |

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 & C1a and Monitoring Station, M4 & M4a & M5.

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.

Table 6.1 Locations of Marine Water Monitoring Stations

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

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. 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.

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)

| <i>Station Description</i> | <i>Code</i> | <i>HK Metric Grid E</i> | <i>HK Metric Grid N</i> |
|-----------------------------------|-------------|-------------------------|-------------------------|
| <i>Control Station (Ebb tide)</i> | <i>C1a</i> | <i>845647</i> | <i>814146</i> |
| <i>Impact Monitoring Station</i> | <i>M4a</i> | <i>845922</i> | <i>813973</i> |
| | <i>M5</i> | <i>847005</i> | <i>813678</i> |

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

| <i>In-situ measurement</i> | <i>Laboratory analysis</i> |
|---|--------------------------------|
| <i>Depth (m)</i> | <i>Suspended solids (mg/L)</i> |
| <i>Temperature (°C)</i> | |
| <i>Dissolved Oxygen (mg/L and % saturation)</i> | |
| <i>Turbidity (NTU)</i> | |
| <i>Salinity (ppt)</i> | |

6.4 Monitoring Frequency

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

Table 6.4 Monitoring frequency of the marine water

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

6.5 Monitoring Methodology and Equipment Used

For Location of the monitoring stations

Global Positioning 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 re-calibrated 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:

- 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 |

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 start 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.

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 | 15/07/24 | 14/10/24 | 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) (Depth-averaged) | >7.74 mg/L (95%-ile of baseline data) or >120% of the upstream control station's SS at the same tide on the same day | >7.67 mg/L (99%-ile of baseline data) or >130% of the upstream control station's SS at the same tide on the same day |
| Turbidity (NTU) (Depth-averaged) | >4.28 NTU (95%-ile of baseline data) or >120% of the upstream control station's turbidity at the same tide on the same day | >4.58 NTU (99%-ile of baseline data) or >130% of the upstream control station's 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) | <u>Surface & Middle</u> <5.5 mg/L <u>Bottom</u> <5.2 mg/L | <u>Surface & Middle</u> <4.00 mg/L (1%-ile of baseline data) <u>Bottom</u> <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:

Table 6.9 Time Schedule of Impact Marine Water Quality Monitoring

| September 2024 | | | | | | |
|----------------|--------|---------|-----------|----------|--------|----------|
| 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 | | | | | |
| | ▼ | | | | | |
| | | | | | | |

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

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.

Table 6.10 Summary of Impact Marine Water Quality Exceedances

| Station | Exceedance Level | DO | | Turbidity | | SS | | Total | |
|---------|------------------|-------|-----|-----------|-----|-------|-----|-------|-----|
| | | Flood | Ebb | Flood | Ebb | Flood | Ebb | Flood | Ebb |
| TKO-M4 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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.

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

| Station | Exceedance Level | DO | | Turbidity | | SS | | Total | |
|---------|------------------|-------|-----|-----------|-----|-------|-----|-------|-----|
| | | Flood | Ebb | Flood | Ebb | Flood | Ebb | Flood | Ebb |
| M4a | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M5 | Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Limit | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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 (04, 11, 17, and 26 September 2024). Table 7.1 presents the key findings of weekly ET site inspection in this reporting period.

Table 7.1 Key Findings of Weekly ET Site Audits in this reporting 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 |
|-------------------|--|-----------------------------------|---|----------------------------|
| 04 September 2024 | No defective work or observation was recorded during the weekly ET site inspection | | | |
| 11 September 2024 | No defective work or observation was recorded during the weekly ET site inspection | | | |
| 17 September 2024 | No defective work or observation was recorded during the weekly ET site inspection | | | |
| 26 September 2024 | No defective work or observation was recorded during the weekly ET site inspection | | | |

7.1.2 EPD's Site Inspection

EPD's site inspection was carried out on 19 September 2024 in this reporting period.

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 amounts of Waste generated in this reporting period

| <i>Waste Type</i> | <i>Actual Amount</i> | <i>Disposal Locations</i> |
|--|----------------------|--|
| <i>Public Fill ('000m³)</i> | <i>0</i> | <i>TKO 137 Fill Bank</i> |
| <i>C&D Waste ('000kg)</i> | <i>240.53</i> | <i>SENT Landfill / Refuse Collection Point</i> |
| <i>Chemical Waste (kg/L)</i> | <i>0 (L)</i> | <i>Collected by licensed collector</i> |

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 environmental licensing and permit status

| Description | Permit No. | Valid Period | | Section |
|--|----------------------|--------------|----------------|---|
| | | From | To | |
| Environmental Permit | EP-134/2002/Q | 31/10/23 | 01/01/27 | <ul style="list-style-type: none"> ▪ Site clearance ▪ Construction of a temporary storm water system ▪ Stockpiling of 12 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 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) |
| Chemical Waste Registration | 5213-839-C3750-05 | 19/04/17 | --- | <ul style="list-style-type: none"> ▪ Spent battery cell containing heavy metals and spent lubricating oil |
| Effluent Discharge License | Ref. Number 10008449 | 06/06/22 | -- | <ul style="list-style-type: none"> ▪ Effluent, Surface Run-off, and all other wastewater discharges from screen and sedimentation tank |
| Marine Dumping Permit | EP/MD/25-005 | 01/01/24 | 30/09/24 | <ul style="list-style-type: none"> ▪ Approval for dumping 499,999 tons (approximately equal to 277,777 cu.m. bulked quantity) of Public Fill (Reclamation Materials) from Tseung Kwan O Area 137 Fill Bank and Tuen Mun Area 38 Fill Bank to designated dumping area at Guanghaiwan of Taishan |
| Billing Account for Waste Disposal | 7051970 | 22/05/17 | End of project | --- |
| Notification Pursuant to Section 3(3) of the Air Pollution Control (Construction Dust) | 10007977 | 12/04/17 | End of project | --- |

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

No complaint was received in this reporting period.

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 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 of Environmental Complaints and Prosecutions

| <i>Complaints logged</i> | | <i>Summons served</i> | | <i>Successful prosecution received</i> | |
|--------------------------|-------------------|-----------------------|-------------------|--|-------------------|
| <i>September 2024</i> | <i>Cumulative</i> | <i>September 2024</i> | <i>Cumulative</i> | <i>September 2024</i> | <i>Cumulative</i> |
| <i>0</i> | <i>18</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> |

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.

No complaint, 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;
- 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 Tseung Kwan O Fill Bank (TKOFB);
2. Operation of dewatering plant at TKOFB;
3. Operation and Maintenance of Artificial Intelligent System for Crushing Number 2, 3 and 4 (Model QJ241) at TKOFB;
4. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;
5. Operation and maintenance of Wheel Washing Bays and Facilities 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. Operation and Maintenance a Digital Works Supervision System (DWSS) for TKOFB;
9. Maintenance of the Drainage Systems at TKOFB;
10. Operation and Maintenance of crushing plants at TKOFB;
11. Delivery of Public Fill to Taishan at TKOFB;
12. Construction of Gabion Wall at TKOFB;
13. Implementation of C Easy system at TKOFB (Phase 1)
14. Carry out GCO Probe test and SRT
15. Operation of recycling public fill as blanket layer material of reclamation projects – PMI No.70

16. PMI No. 94 – Post Geotechnical Monitoring at TKOFB
17. Construction of concrete access road to fixed rigid platform

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

Noise

- To switch off equipment if not in use;
- 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

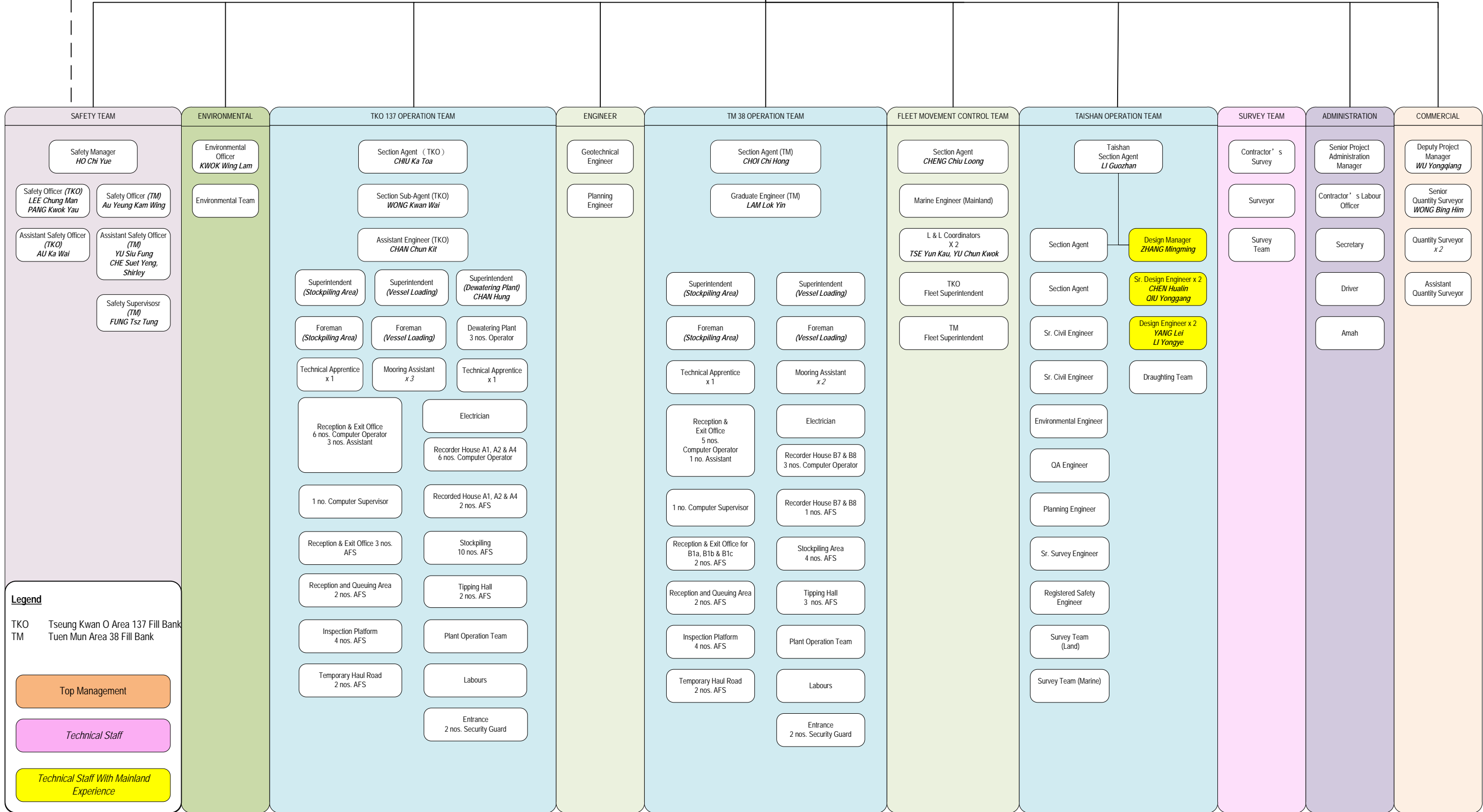
Project Organization Chart

CHCC MANAGEMENT BOARD
XUE Yong, YANG Lu, LU Shizhao

Assistant General Manager / Project Director /
Construction Manager
ZHOU Chang Ying

Site Agent
PAN Wing On

Health & Safety
General Manager
SO Sze Lung



Appendix B1

Calibration Certificates for Impact Air Quality Monitoring Equipment



Certificate of Calibration

| Calibration Certification Information | | | |
|---------------------------------------|------------------------|-----------------|--|
| Cal. Date: January 15, 2024 | Rootsmeter S/N: 438320 | Ta: 295 °K | |
| Operator: Jim Tisch | | Pa: 756.4 mm Hg | |
| Calibration Model #: TE-5025A | Calibrator S/N: 4228 | | |

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

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

| Calculations | |
|---|--|
| Vstd= $\Delta Vol \left(\frac{Pa - \Delta P}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$ | Va= $\Delta Vol \left(\frac{Pa - \Delta P}{Pa} \right)$ |
| Qstd= Vstd/ΔTime | Qa= Va/ΔTime |
| For subsequent flow rate calculations: | |
| Qstd= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$ | Qa= $1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$ |

| Standard Conditions | |
|---------------------|---------------------------------------|
| Tstd: | 298.15 °K |
| Pstd: | 760 mm Hg |
| Key | |
| ΔH: | calibrator manometer reading (in H2O) |
| ΔP: | rootsmeter manometer reading (mm Hg) |
| Ta: | actual absolute temperature (°K) |
| Pa: | actual barometric pressure (mm Hg) |
| b: | intercept |
| m: | slope |

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



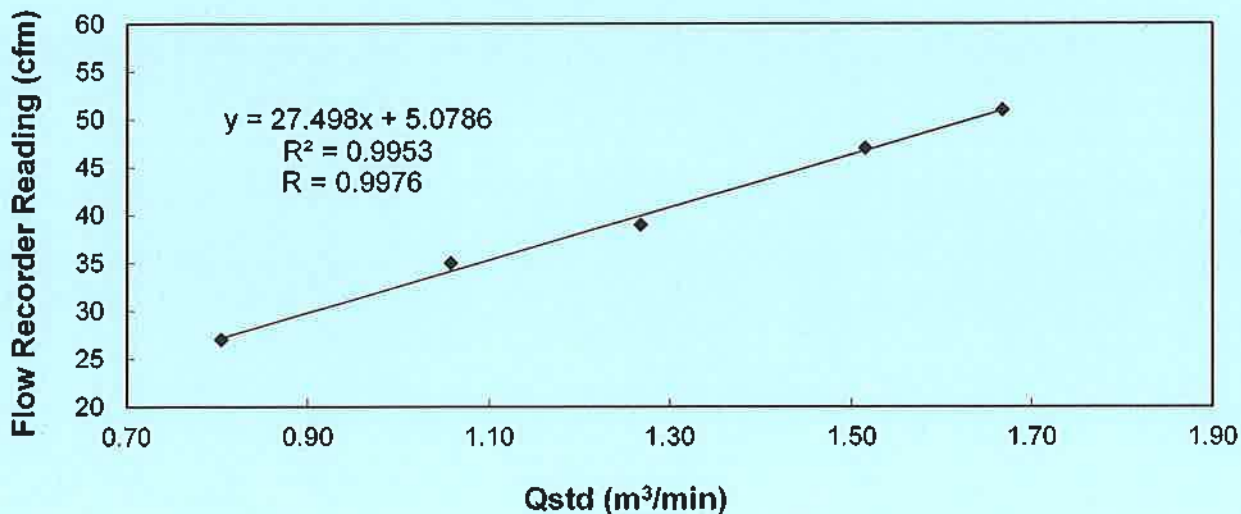
TEST REPORT

Calibration Report
of
High Volume Air Sampler

Manufacturer : Andersen G1051 Date of Calibration : 12 August 2024
Serial No. : 1176 (ET / EA / 003 / 05) Calibration Due Date : 11 October 2024
Method : Based on Operations Manual for the 5-point calibration using standard calibration kit manufactured by Tisch TE-5025 A

| | | | | | | |
|---------|--|---------------|------|------|------|------|
| Results | Flow recorder reading (cfm) | 51 | 47 | 39 | 35 | 27 |
| | Qstd (Actual flow rate, m ³ /min) | 1.67 | 1.52 | 1.27 | 1.06 | 0.80 |
| | Pressure : 753.14 mm Hg | Temp. : 302 K | | | | |

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.

Calibrated by : MAK, Kei Wai
MAK, Kei Wai
(Assistant Supervisor)

Checked by : LAU, Chi Leung
LAU, Chi Leung
(Environmental Team Leader)

- END OF REPORT -



TEST REPORT

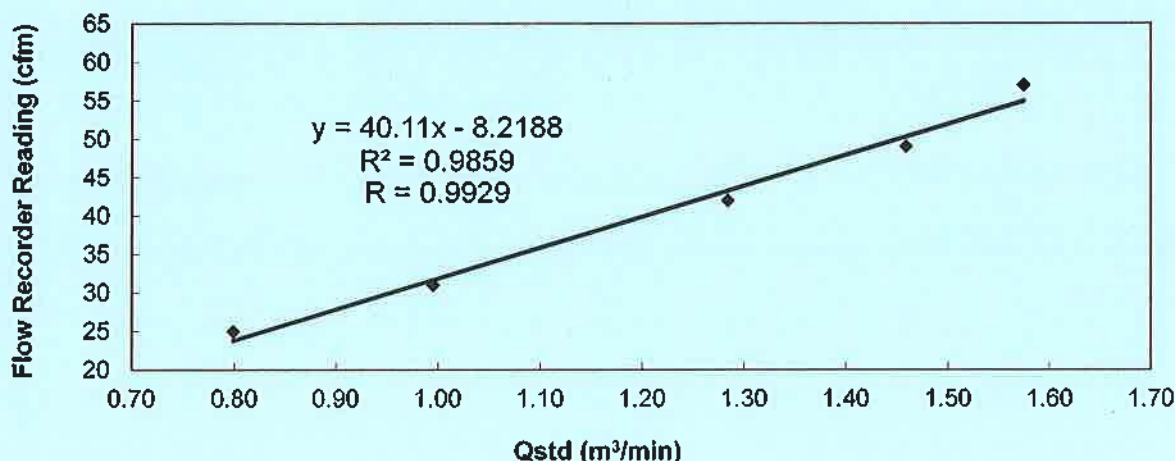
Calibration Report
of
High Volume Air Sampler

Manufacturer : Graseby (Model No. GS2310) **Date of Calibration** : 31 July 2024
Serial No. : 1934 (ET / EA / 003 / 25) **Calibration Due Date** : 30 September 2024
Method : Five-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations Manual

Results :

| | | | | | |
|--|--------------|------|---------|-------|------|
| Flow recorder reading (cfm) | 57 | 49 | 42 | 31 | 25 |
| Qstd (Actual flow rate, m ³ /min) | 1.57 | 1.46 | 1.28 | 1.00 | 0.80 |
| Pressure : | 755.31 mm Hg | | Temp. : | 308 K | |

Sampler 1934 Calibration Curve
Site: Tseung Kwan O 137 (TKO-A3)



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
MAK, Kei Wai
(Assistant Supervisor)

Approved by : LAU, Chi Leung
LAU, Chi Leung
(Environmental Team Leader)



TEST REPORT

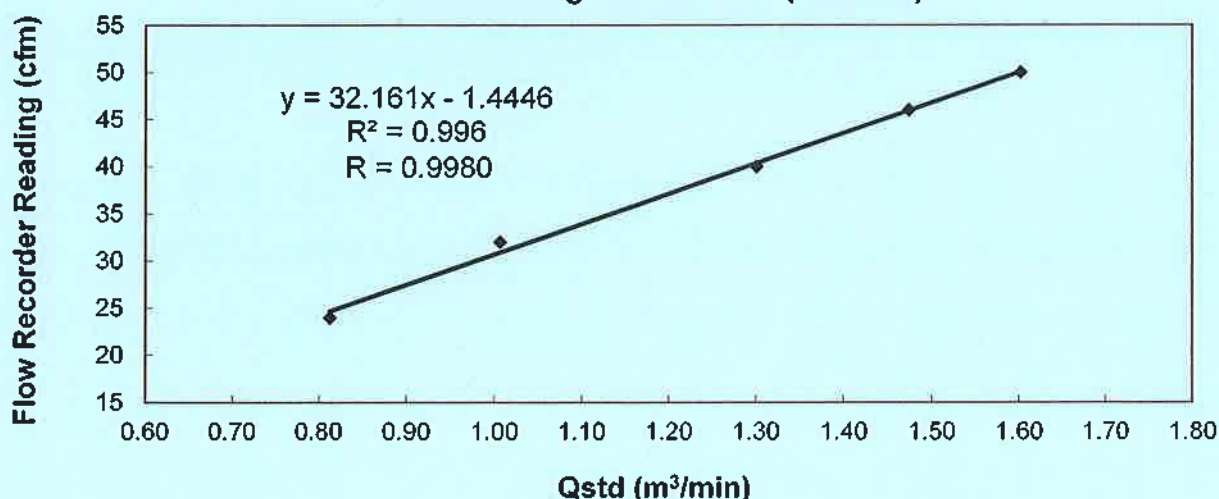
Calibration Report
of
High Volume Air Sampler

Manufacturer : Graseby (Model No. GS2310) Date of Calibration : 31 July 2024
Serial No. : 9998 (ET/EA/003/12) Calibration Due Date : 30 September 2024
Method : Five-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations Manual

Results :

| | | | | | |
|--|--------------|------|---------|-------|------|
| Flow recorder reading (cfm) | 50 | 46 | 40 | 32 | 24 |
| Qstd (Actual flow rate, m ³ /min) | 1.60 | 1.47 | 1.30 | 1.01 | 0.81 |
| Pressure : | 755.31 mm Hg | | Temp. : | 308 K | |

Sampler 9998 Calibration Curve
Site: Tseung Kwan O 137 (TKO-A4)



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
MAK, Kei Wai
(Assistant Supervisor)

Checked by : LAU, Chi Leung
LAU, Chi Leung
(Environmental Team Leader)

- END OF REPORT -

Appendix B2

Impact Air Quality Monitoring Results

Summary of 24-hr TSP Monitoring Results



Monitoring Station : TKO-A1

Location : Site Egress

| Start | | Finish | | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) |
|-----------|-------|-----------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|
| Date | Time | Date | Time | Initial | Final | | Initial | Final | | Initial | Final | |
| 5/9/2024 | 08:30 | 6/9/2024 | 08:30 | 29210.74 | 29234.74 | 24.00 | 1.1074 | 1.1074 | 1.1074 | 2.6197 | 2.8382 | 137 |
| 11/9/2024 | 08:20 | 12/9/2024 | 08:20 | 29237.74 | 29261.74 | 24.00 | 1.1362 | 1.1362 | 1.1362 | 2.8303 | 3.0708 | 147 |
| 17/9/2024 | 08:30 | 18/9/2024 | 08:30 | 29264.74 | 29288.74 | 24.00 | 1.1362 | 1.1362 | 1.1362 | 2.8606 | 3.0766 | 132 |
| 23/9/2024 | 08:30 | 24/9/2024 | 08:30 | 29291.74 | 29315.74 | 24.00 | 1.1362 | 1.1362 | 1.1362 | 2.7938 | 3.0196 | 138 |
| 28/9/2024 | 08:30 | 29/9/2024 | 08:30 | 29318.74 | 29342.74 | 24.00 | 1.1362 | 1.1362 | 1.1362 | 2.6673 | 2.9094 | 148 |

Monitoring Station : TKO-A2a

Location : CREO

| Start | | Finish | | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) |
|-----------|-------|-----------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|
| Date | Time | Date | Time | Initial | Final | | Initial | Final | | Initial | Final | |
| 5/9/2024 | 08:30 | 6/9/2024 | 08:30 | 31214.71 | 31238.71 | 24.00 | 1.0154 | 1.0154 | 1.0154 | 2.6283 | 2.8345 | 141 |
| 11/9/2024 | 08:25 | 12/9/2024 | 08:25 | 31241.71 | 31265.71 | 24.00 | 1.0518 | 1.0518 | 1.0518 | 2.8622 | 3.0924 | 152 |
| 17/9/2024 | 08:30 | 18/9/2024 | 08:30 | 31268.71 | 31292.71 | 24.00 | 1.0518 | 1.0518 | 1.0518 | 2.8694 | 3.0739 | 135 |
| 23/9/2024 | 08:30 | 24/9/2024 | 08:30 | 31295.71 | 31319.71 | 24.00 | 1.0518 | 1.0518 | 1.0518 | 2.7535 | 2.9655 | 140 |
| 28/9/2024 | 08:30 | 29/9/2024 | 08:30 | 31322.71 | 31346.71 | 24.00 | 1.0518 | 1.0518 | 1.0518 | 2.6359 | 2.8676 | 153 |

Summary of 1-hr TSP Monitoring Results



Monitoring Station : TKO-A1

Location : Site Egress

| Start | | Finish | | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) |
|-----------|-------|-----------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|
| Date | Time | Date | Time | Initial | Final | | Initial | Final | | Initial | Final | |
| 2/9/2024 | 09:30 | 2/9/2024 | 10:30 | 29207.74 | 29208.74 | 1.00 | 1.1074 | 1.1074 | 1.1074 | 2.8431 | 2.8596 | 248 |
| 2/9/2024 | 13:50 | 2/9/2024 | 14:50 | 29208.74 | 29209.74 | 1.00 | 1.1074 | 1.1074 | 1.1074 | 2.8198 | 2.8365 | 251 |
| 4/9/2024 | 14:00 | 4/9/2024 | 15:00 | 29209.74 | 29210.74 | 1.00 | 1.1074 | 1.1074 | 1.1074 | 2.7601 | 2.7770 | 254 |
| 6/9/2024 | 13:40 | 6/9/2024 | 14:40 | 29234.74 | 29235.74 | 1.00 | 1.1074 | 1.1074 | 1.1074 | 2.7011 | 2.7159 | 223 |
| 6/9/2024 | 14:45 | 6/9/2024 | 15:45 | 29235.74 | 29236.74 | 1.00 | 1.1074 | 1.1074 | 1.1074 | 2.7294 | 2.7444 | 226 |
| 9/9/2024 | 10:00 | 9/9/2024 | 11:00 | 29236.74 | 29237.74 | 1.00 | 1.1074 | 1.1074 | 1.1074 | 2.7434 | 2.7587 | 230 |
| 13/9/2024 | 09:45 | 13/9/2024 | 10:45 | 29261.74 | 29262.74 | 1.00 | 1.1362 | 1.1362 | 1.1362 | 2.7706 | 2.7877 | 251 |
| 13/9/2024 | 13:35 | 13/9/2024 | 14:35 | 29262.74 | 29263.74 | 1.00 | 1.1362 | 1.1362 | 1.1362 | 2.7526 | 2.7695 | 248 |
| 16/9/2024 | 10:20 | 16/9/2024 | 11:20 | 29263.74 | 29264.74 | 1.00 | 1.1362 | 1.1362 | 1.1362 | 2.7268 | 2.7424 | 229 |
| 20/9/2024 | 09:50 | 20/9/2024 | 10:50 | 29288.74 | 29289.74 | 1.00 | 1.1362 | 1.1362 | 1.1362 | 2.8108 | 2.8268 | 235 |
| 20/9/2024 | 13:25 | 20/9/2024 | 14:25 | 29289.74 | 29290.74 | 1.00 | 1.1362 | 1.1362 | 1.1362 | 2.8409 | 2.8567 | 232 |
| 20/9/2024 | 14:55 | 20/9/2024 | 15:55 | 29290.74 | 29291.74 | 1.00 | 1.1362 | 1.1362 | 1.1362 | 2.7957 | 2.8118 | 236 |
| 25/9/2024 | 09:00 | 25/9/2024 | 10:00 | 29315.74 | 29316.74 | 1.00 | 1.1362 | 1.1362 | 1.1362 | 2.7932 | 2.8095 | 239 |
| 25/9/2024 | 13:00 | 25/9/2024 | 14:00 | 29316.74 | 29317.74 | 1.00 | 1.1362 | 1.1362 | 1.1362 | 2.8267 | 2.8426 | 233 |
| 27/9/2024 | 13:40 | 27/9/2024 | 14:40 | 29317.74 | 29318.74 | 1.00 | 1.1362 | 1.1362 | 1.1362 | 2.7162 | 2.7331 | 248 |
| 30/9/2024 | 13:30 | 30/9/2024 | 14:30 | 29342.74 | 29343.74 | 1.00 | 1.1074 | 1.1074 | 1.1074 | 2.7437 | 2.7606 | 254 |
| 30/9/2024 | 14:50 | 30/9/2024 | 15:50 | 29343.74 | 29344.74 | 1.00 | 1.1074 | 1.1074 | 1.1074 | 2.7383 | 2.7554 | 257 |

Monitoring Station : TKO-A2a

Location : CREO



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

| Start | | Finish | | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) |
|-----------|-------|-----------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|
| Date | Time | Date | Time | Initial | Final | | Initial | Final | | Initial | Final | |
| 2/9/2024 | 09:40 | 2/9/2024 | 10:40 | 31211.71 | 31212.71 | 1.00 | 1.0154 | 1.0154 | 1.0154 | 2.8648 | 2.8803 | 254 |
| 2/9/2024 | 14:00 | 2/9/2024 | 15:00 | 31212.71 | 31213.71 | 1.00 | 1.0154 | 1.0154 | 1.0154 | 2.7988 | 2.8144 | 256 |
| 4/9/2024 | 14:10 | 4/9/2024 | 15:10 | 31213.71 | 31214.71 | 1.00 | 1.0154 | 1.0154 | 1.0154 | 2.6893 | 2.7051 | 259 |
| 6/9/2024 | 13:50 | 6/9/2024 | 14:50 | 31238.71 | 31239.71 | 1.00 | 1.0154 | 1.0154 | 1.0154 | 2.7256 | 2.7394 | 227 |
| 6/9/2024 | 14:55 | 6/9/2024 | 15:55 | 31239.71 | 31240.71 | 1.00 | 1.0154 | 1.0154 | 1.0154 | 2.7906 | 2.8046 | 230 |
| 9/9/2024 | 10:10 | 9/9/2024 | 11:10 | 31240.71 | 31241.71 | 1.00 | 1.0154 | 1.0154 | 1.0154 | 2.7355 | 2.7498 | 235 |
| 13/9/2024 | 09:50 | 13/9/2024 | 10:50 | 31265.71 | 31266.71 | 1.00 | 1.0518 | 1.0518 | 1.0518 | 2.7851 | 2.8011 | 254 |
| 13/9/2024 | 13:40 | 13/9/2024 | 14:40 | 31266.71 | 31267.71 | 1.00 | 1.0518 | 1.0518 | 1.0518 | 2.7291 | 2.7450 | 252 |
| 16/9/2024 | 10:25 | 16/9/2024 | 11:25 | 31267.71 | 31268.71 | 1.00 | 1.0518 | 1.0518 | 1.0518 | 2.7829 | 2.7975 | 231 |
| 20/9/2024 | 09:55 | 20/9/2024 | 10:55 | 31292.71 | 31293.71 | 1.00 | 1.0518 | 1.0518 | 1.0518 | 2.8413 | 2.8563 | 238 |
| 20/9/2024 | 13:30 | 20/9/2024 | 14:30 | 31293.71 | 31294.71 | 1.00 | 1.0518 | 1.0518 | 1.0518 | 2.8117 | 2.8266 | 236 |
| 20/9/2024 | 15:05 | 20/9/2024 | 16:05 | 31294.71 | 31295.71 | 1.00 | 1.0518 | 1.0518 | 1.0518 | 2.7461 | 2.7612 | 239 |
| 25/9/2024 | 09:05 | 25/9/2024 | 10:05 | 31319.71 | 31320.71 | 1.00 | 1.0518 | 1.0518 | 1.0518 | 2.7964 | 2.8117 | 242 |
| 25/9/2024 | 13:00 | 25/9/2024 | 14:00 | 31320.71 | 31321.71 | 1.00 | 1.0518 | 1.0518 | 1.0518 | 2.7309 | 2.7457 | 235 |
| 27/9/2024 | 13:45 | 27/9/2024 | 14:45 | 31321.71 | 31322.71 | 1.00 | 1.0518 | 1.0518 | 1.0518 | 2.7023 | 2.7183 | 254 |
| 30/9/2024 | 13:30 | 30/9/2024 | 14:30 | 31346.71 | 31347.71 | 1.00 | 1.0154 | 1.0154 | 1.0154 | 2.7622 | 2.7780 | 259 |
| 30/9/2024 | 15:00 | 30/9/2024 | 16:00 | 31347.71 | 31348.71 | 1.00 | 1.0154 | 1.0154 | 1.0154 | 2.7956 | 2.8115 | 261 |

Summary of 24-hr TSP Monitoring Results



Monitoring Station : TKO-A3

Location : A4 Gabion Wall

| Start | | Finish | | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) |
|-----------|-------|-----------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|
| Date | Time | Date | Time | Initial | Final | | Initial | Final | | Initial | Final | |
| 5/9/2024 | 08:30 | 6/9/2024 | 08:30 | 30873.29 | 30897.29 | 24.00 | 1.0526 | 1.0526 | 1.0526 | 2.7719 | 2.8583 | 57 |
| 11/9/2024 | 08:55 | 12/9/2024 | 08:55 | 30900.29 | 30924.29 | 24.00 | 1.0526 | 1.0526 | 1.0526 | 2.7122 | 2.8168 | 69 |
| 17/9/2024 | 08:30 | 18/9/2024 | 08:30 | 30927.29 | 30951.29 | 24.00 | 1.0276 | 1.0276 | 1.0276 | 2.8442 | 2.9256 | 55 |
| 23/9/2024 | 08:30 | 24/9/2024 | 08:30 | 30954.29 | 30978.29 | 24.00 | 1.0276 | 1.0276 | 1.0276 | 2.6258 | 2.6953 | 47 |
| 28/9/2024 | 08:30 | 29/9/2024 | 08:30 | 30981.29 | 31005.29 | 24.00 | 1.0027 | 1.0027 | 1.0027 | 2.7967 | 2.8747 | 54 |

Monitoring Station : TKO-A4

Location : TKO Desalination Plant

| Start | | Finish | | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) |
|-----------|-------|-----------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|
| Date | Time | Date | Time | Initial | Final | | Initial | Final | | Initial | Final | |
| 5/9/2024 | 08:30 | 6/9/2024 | 08:30 | 27385.24 | 27409.24 | 24.00 | 1.0710 | 1.0710 | 1.0710 | 2.7678 | 2.8495 | 53 |
| 11/9/2024 | 09:15 | 12/9/2024 | 09:15 | 27412.24 | 27436.24 | 24.00 | 1.0710 | 1.0710 | 1.0710 | 2.6444 | 2.7431 | 64 |
| 17/9/2024 | 08:30 | 18/9/2024 | 08:30 | 27439.24 | 27463.24 | 24.00 | 1.0399 | 1.0399 | 1.0399 | 2.7883 | 2.8647 | 51 |
| 23/9/2024 | 08:30 | 24/9/2024 | 08:30 | 27466.24 | 27490.24 | 24.00 | 1.0399 | 1.0399 | 1.0399 | 2.6839 | 2.7438 | 40 |
| 28/9/2024 | 08:30 | 29/9/2024 | 08:30 | 27493.24 | 27517.24 | 24.00 | 1.0088 | 1.0088 | 1.0088 | 2.7113 | 2.7810 | 48 |

Summary of 1-hr TSP Monitoring Results



Monitoring Station : TKO-A3

Location : A4 Gabion Wall

| Start | | Finish | | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) |
|-----------|-------|-----------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|
| Date | Time | Date | Time | Initial | Final | | Initial | Final | | Initial | Final | |
| 2/9/2024 | 14:20 | 2/9/2024 | 15:20 | 30870.29 | 30871.29 | 1.00 | 1.0526 | 1.0526 | 1.0526 | 2.8011 | 2.8097 | 136 |
| 2/9/2024 | 15:25 | 2/9/2024 | 16:25 | 30871.29 | 30872.29 | 1.00 | 1.0526 | 1.0526 | 1.0526 | 2.7162 | 2.7249 | 138 |
| 4/9/2024 | 15:30 | 4/9/2024 | 16:30 | 30872.29 | 30873.29 | 1.00 | 1.0526 | 1.0526 | 1.0526 | 2.8152 | 2.8232 | 127 |
| 6/9/2024 | 15:15 | 6/9/2024 | 16:15 | 30897.29 | 30898.29 | 1.00 | 1.0526 | 1.0526 | 1.0526 | 2.7810 | 2.7868 | 92 |
| 6/9/2024 | 16:20 | 6/9/2024 | 17:20 | 30898.29 | 30899.29 | 1.00 | 1.0526 | 1.0526 | 1.0526 | 2.7945 | 2.8005 | 95 |
| 9/9/2024 | 13:20 | 9/9/2024 | 14:20 | 30899.29 | 30900.29 | 1.00 | 1.0526 | 1.0526 | 1.0526 | 2.7726 | 2.7793 | 106 |
| 13/9/2024 | 10:10 | 13/9/2024 | 11:10 | 30924.29 | 30925.29 | 1.00 | 1.0526 | 1.0526 | 1.0526 | 2.7579 | 2.7656 | 122 |
| 13/9/2024 | 14:00 | 13/9/2024 | 15:00 | 30925.29 | 30926.29 | 1.00 | 1.0526 | 1.0526 | 1.0526 | 2.8323 | 2.8403 | 127 |
| 16/9/2024 | 10:45 | 16/9/2024 | 11:45 | 30926.29 | 30927.29 | 1.00 | 1.0276 | 1.0276 | 1.0276 | 2.8278 | 2.8351 | 118 |
| 20/9/2024 | 10:15 | 20/9/2024 | 11:15 | 30951.29 | 30952.29 | 1.00 | 1.0276 | 1.0276 | 1.0276 | 2.7937 | 2.8016 | 128 |
| 20/9/2024 | 13:50 | 20/9/2024 | 14:50 | 30952.29 | 30953.29 | 1.00 | 1.0276 | 1.0276 | 1.0276 | 2.8269 | 2.8350 | 131 |
| 20/9/2024 | 15:20 | 20/9/2024 | 16:20 | 30953.29 | 30954.29 | 1.00 | 1.0276 | 1.0276 | 1.0276 | 2.7573 | 2.7653 | 130 |
| 25/9/2024 | 09:25 | 25/9/2024 | 10:25 | 30978.29 | 30979.29 | 1.00 | 1.0027 | 1.0027 | 1.0027 | 2.7346 | 2.7417 | 118 |
| 25/9/2024 | 13:00 | 25/9/2024 | 14:00 | 30979.29 | 30980.29 | 1.00 | 1.0027 | 1.0027 | 1.0027 | 2.7947 | 2.8019 | 120 |
| 27/9/2024 | 14:05 | 27/9/2024 | 15:05 | 30980.29 | 30981.29 | 1.00 | 1.0027 | 1.0027 | 1.0027 | 2.7778 | 2.7852 | 123 |
| 30/9/2024 | 13:55 | 30/9/2024 | 14:55 | 31005.29 | 31006.29 | 1.00 | 1.0027 | 1.0027 | 1.0027 | 2.7395 | 2.7473 | 130 |
| 30/9/2024 | 15:15 | 30/9/2024 | 16:15 | 31006.29 | 31007.29 | 1.00 | 1.0027 | 1.0027 | 1.0027 | 2.8194 | 2.8274 | 133 |

Monitoring Station : TKO-A4

Location : TKO Desalination Plant

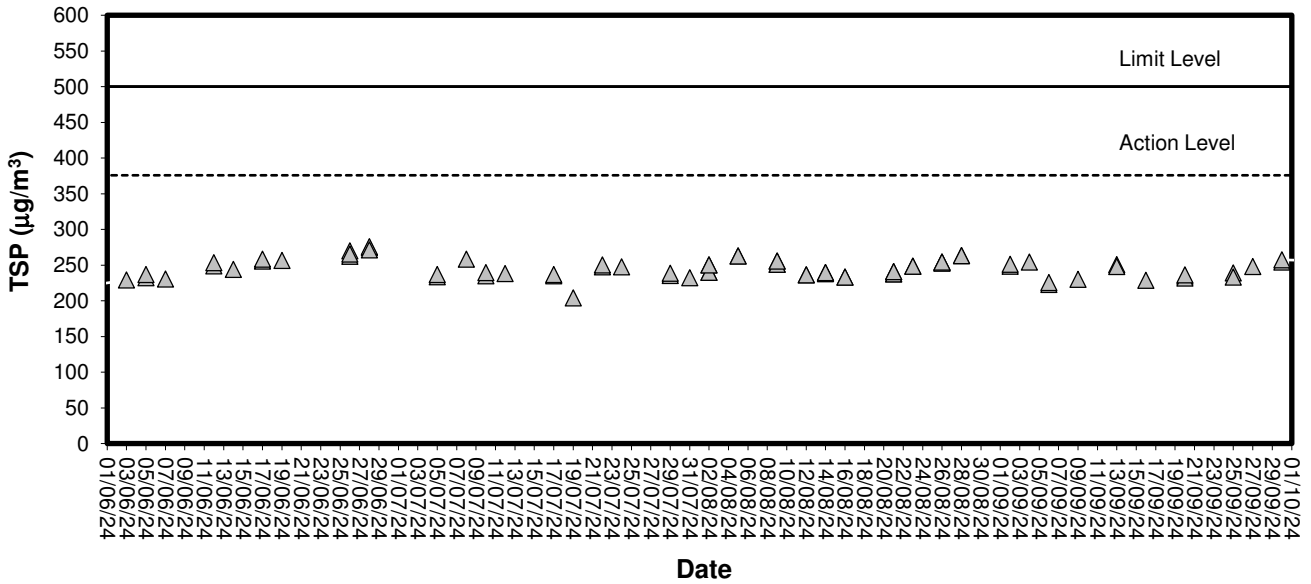
| Start | | Finish | | Elapse Time | | Sampling Time (hrs) | Flow Rate (m ³ /min.) | | Average (m ³ /min.) | Filter Weight (g) | | Conc. (µg/m ³) |
|-----------|-------|-----------|-------|-------------|----------|---------------------|----------------------------------|--------|--------------------------------|-------------------|--------|----------------------------|
| Date | Time | Date | Time | Initial | Final | | Initial | Final | | Initial | Final | |
| 2/9/2024 | 14:40 | 2/9/2024 | 15:40 | 27382.24 | 27383.24 | 1.00 | 1.0710 | 1.0710 | 1.0710 | 2.8348 | 2.8425 | 120 |
| 2/9/2024 | 15:45 | 2/9/2024 | 16:45 | 27383.24 | 27384.24 | 1.00 | 1.0710 | 1.0710 | 1.0710 | 2.8066 | 2.8146 | 124 |
| 4/9/2024 | 15:40 | 4/9/2024 | 16:40 | 27384.24 | 27385.24 | 1.00 | 1.0710 | 1.0710 | 1.0710 | 2.7909 | 2.7985 | 118 |
| 6/9/2024 | 15:25 | 6/9/2024 | 16:25 | 27409.24 | 27410.24 | 1.00 | 1.0710 | 1.0710 | 1.0710 | 2.8002 | 2.8057 | 86 |
| 6/9/2024 | 16:30 | 6/9/2024 | 17:30 | 27410.24 | 27411.24 | 1.00 | 1.0710 | 1.0710 | 1.0710 | 2.7179 | 2.7244 | 101 |
| 9/9/2024 | 13:45 | 9/9/2024 | 14:45 | 27411.24 | 27412.24 | 1.00 | 1.0710 | 1.0710 | 1.0710 | 2.7179 | 2.7244 | 101 |
| 13/9/2024 | 10:30 | 13/9/2024 | 11:30 | 27436.24 | 27437.24 | 1.00 | 1.0710 | 1.0710 | 1.0710 | 2.7163 | 2.7237 | 115 |
| 13/9/2024 | 14:20 | 13/9/2024 | 15:20 | 27437.24 | 27438.24 | 1.00 | 1.0710 | 1.0710 | 1.0710 | 2.8029 | 2.8106 | 120 |
| 16/9/2024 | 11:05 | 16/9/2024 | 12:05 | 27438.24 | 27439.24 | 1.00 | 1.0399 | 1.0399 | 1.0399 | 2.8388 | 2.8457 | 111 |
| 20/9/2024 | 10:35 | 20/9/2024 | 11:35 | 27463.24 | 27464.24 | 1.00 | 1.0399 | 1.0399 | 1.0399 | 2.7443 | 2.7519 | 122 |
| 20/9/2024 | 14:10 | 20/9/2024 | 15:10 | 27464.24 | 27465.24 | 1.00 | 1.0399 | 1.0399 | 1.0399 | 2.8124 | 2.8202 | 125 |
| 20/9/2024 | 15:40 | 20/9/2024 | 16:40 | 27465.24 | 27466.24 | 1.00 | 1.0399 | 1.0399 | 1.0399 | 2.7254 | 2.7331 | 123 |
| 25/9/2024 | 09:45 | 25/9/2024 | 10:45 | 27490.24 | 27491.24 | 1.00 | 1.0088 | 1.0088 | 1.0088 | 2.7259 | 2.7326 | 111 |
| 25/9/2024 | 13:00 | 25/9/2024 | 14:00 | 27491.24 | 27492.24 | 1.00 | 1.0088 | 1.0088 | 1.0088 | 2.8216 | 2.8286 | 116 |
| 27/9/2024 | 14:25 | 27/9/2024 | 15:25 | 27492.24 | 27493.24 | 1.00 | 1.0088 | 1.0088 | 1.0088 | 2.7794 | 2.7865 | 117 |
| 30/9/2024 | 14:15 | 30/9/2024 | 15:15 | 27517.24 | 27518.24 | 1.00 | 1.0088 | 1.0088 | 1.0088 | 2.7418 | 2.7491 | 121 |
| 30/9/2024 | 15:35 | 30/9/2024 | 16:35 | 27518.24 | 27519.24 | 1.00 | 1.0088 | 1.0088 | 1.0088 | 2.7423 | 2.7499 | 126 |

Appendix B3

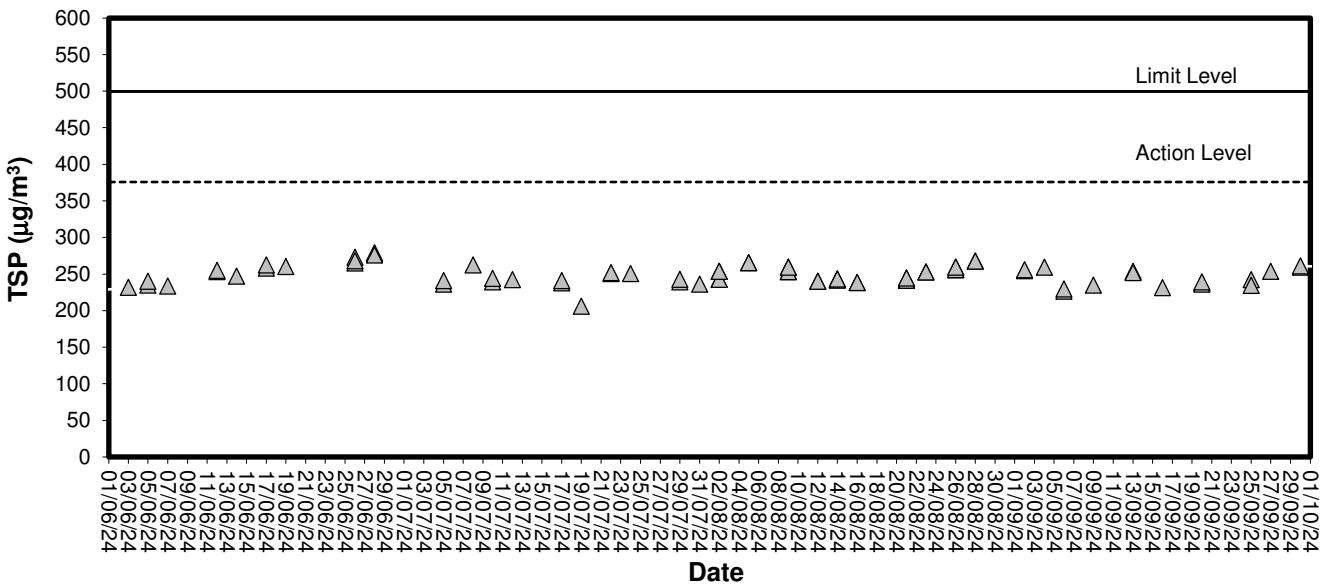
Graphical Plots of Impact Air Quality Monitoring Data



1-hour TSP level at TKO-A1

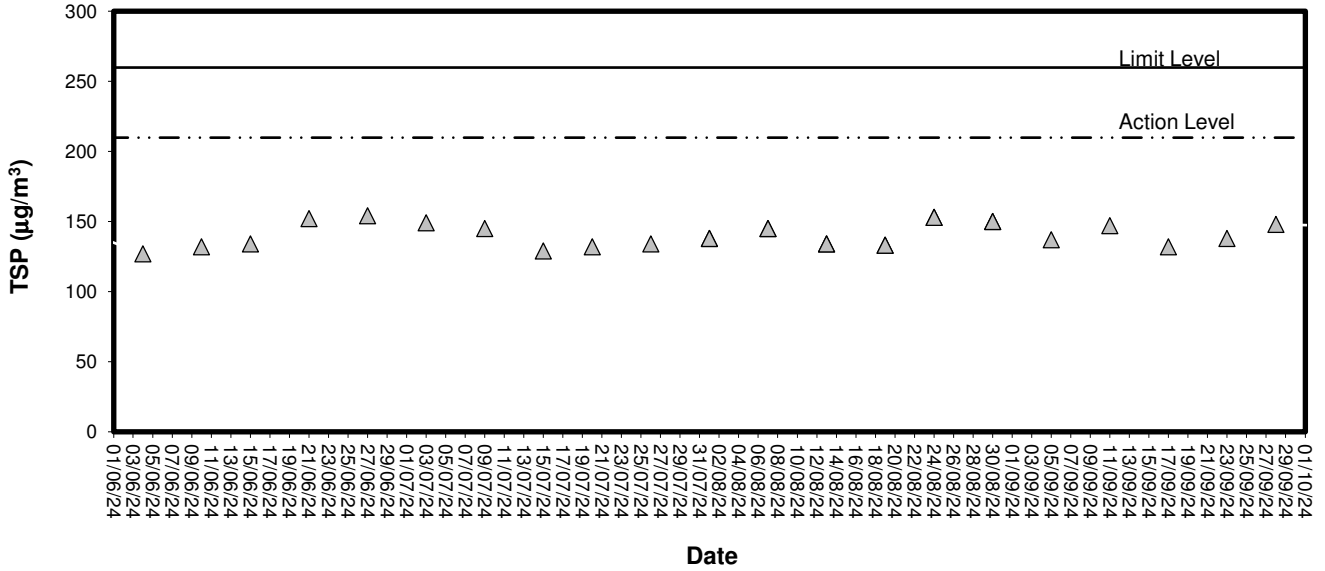


1-hour TSP level at TKO-A2a

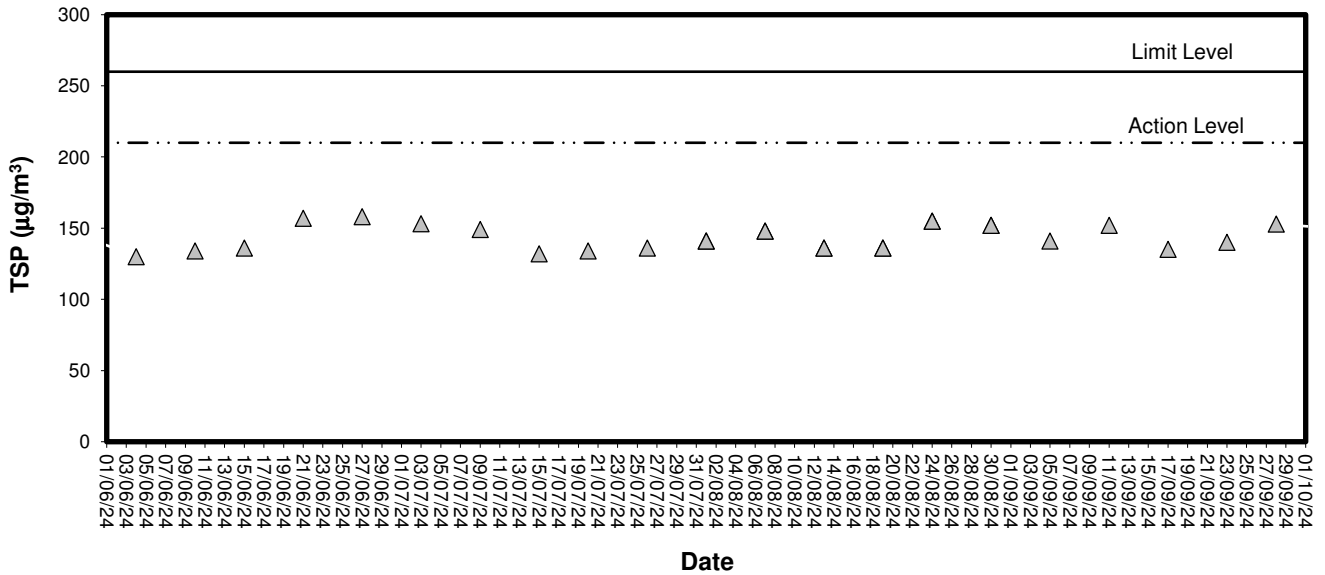




24-hour TSP level at TKO-A1

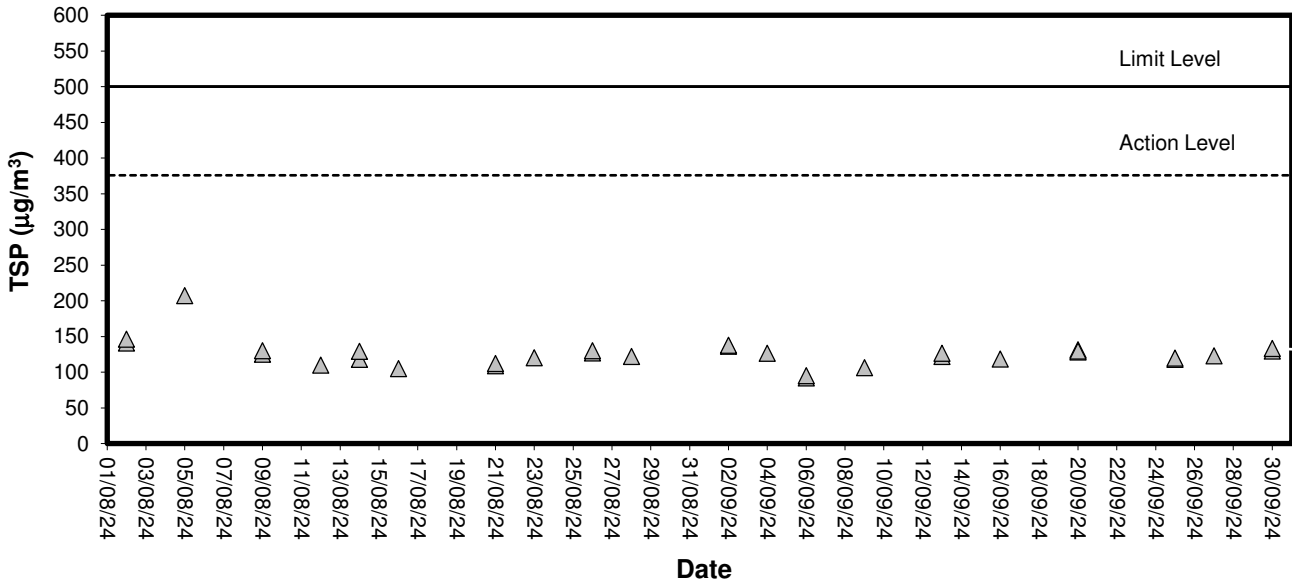


24-hour TSP level at TKO-A2a

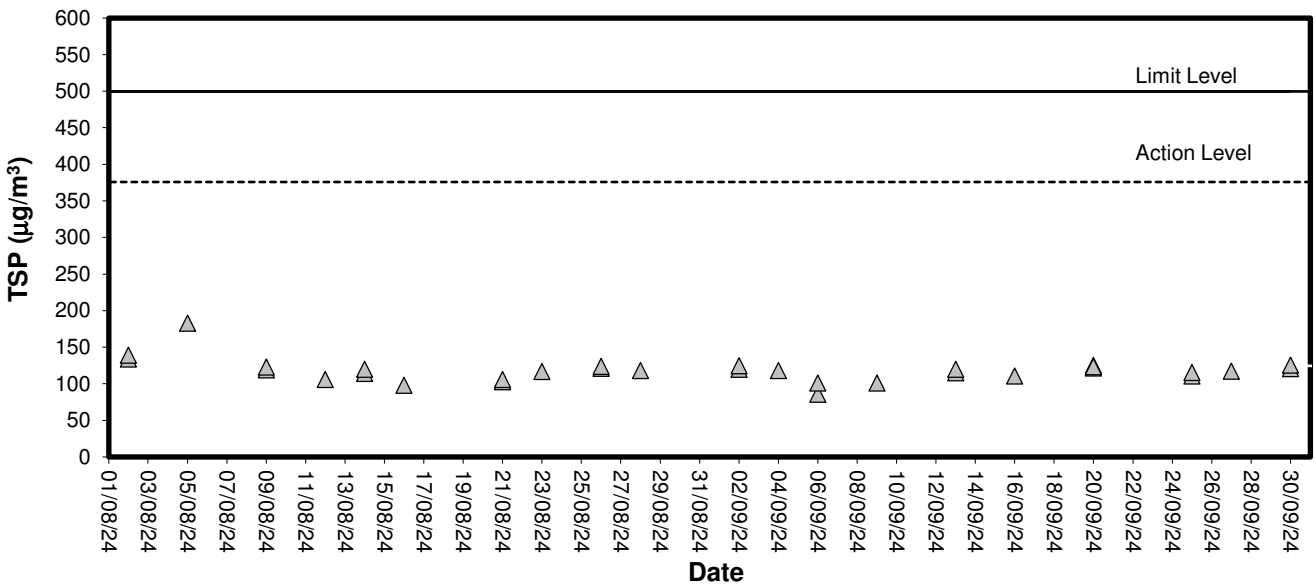




1-hour TSP level at TKO-A3

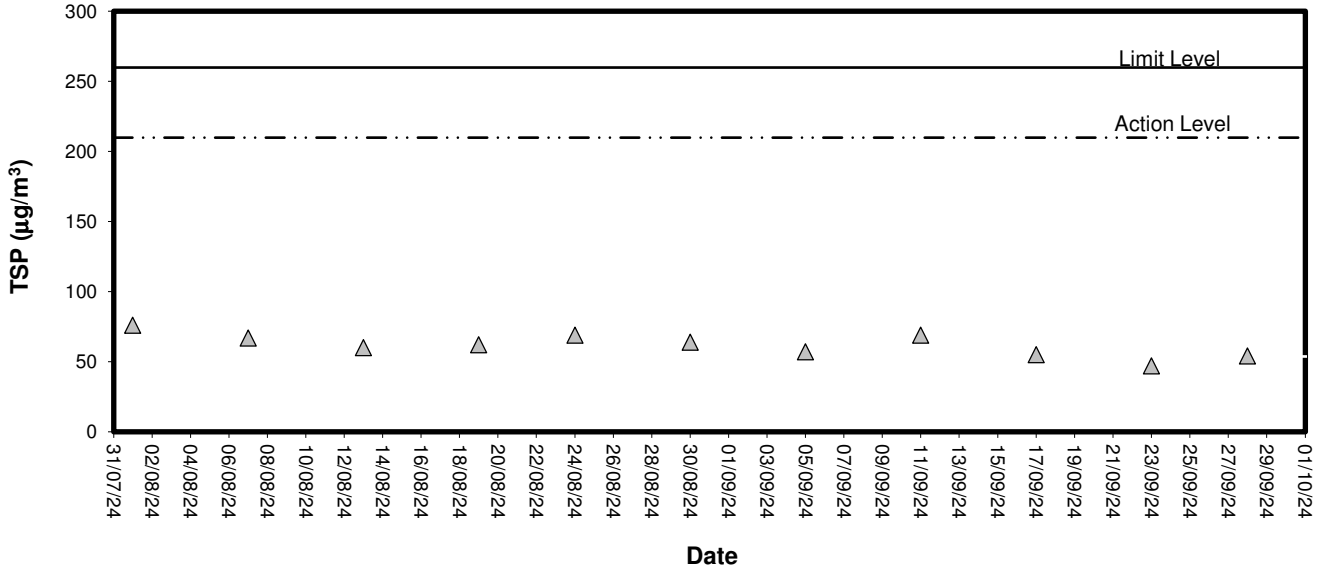


1-hour TSP level at TKO-A4

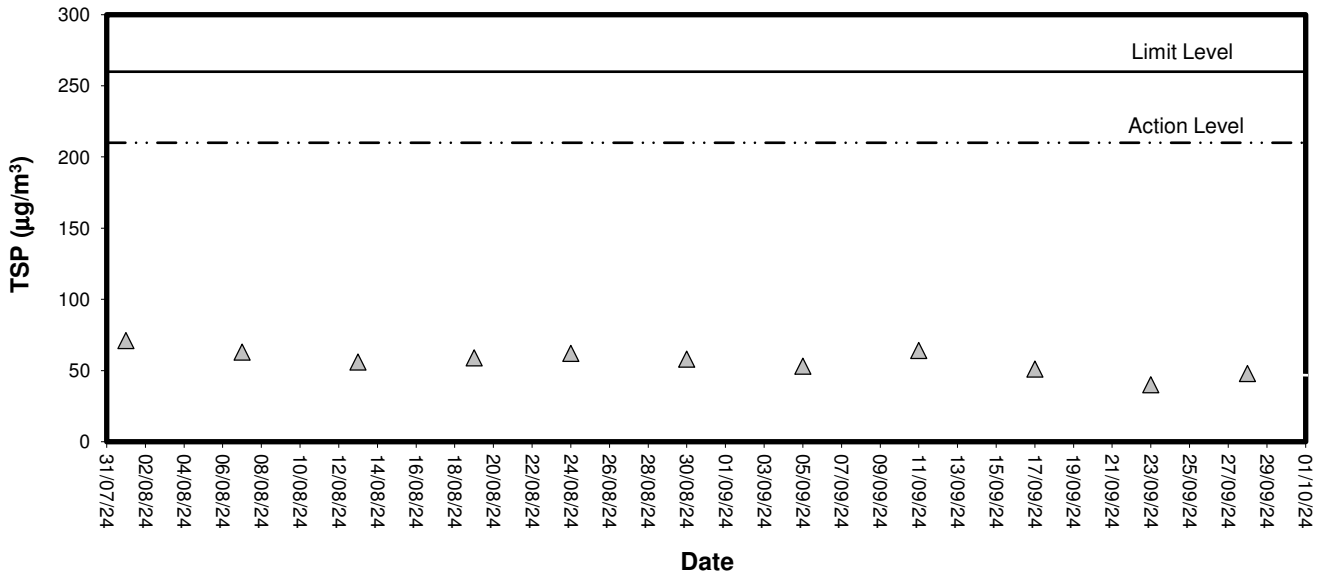




24-hour TSP level at TKO-A3



24-hour TSP level at TKO-A4



Appendix C1

Calibration Certificates for Impact Noise Monitoring Equipment



Calibration Certificate

Certificate No. : CSA38446
Page : 1 of 2

Information Provided by Customer

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

Information of Unit-under-test (UUT)

Description : Sound Level Calibrator
Manufacturer : RION
Type : NC-73
Equipment I.D. : ET/EN/002/01
Serial No. : 10196943

Laboratory Information

Lab. Ref. No. : Q/CAL/23/9463/1
Date of Calibration : 23-Nov-2023
Date of Issue : 24-Nov-2023
Procedure : CQS/002/A
Date of Receipt : 15-Nov-2023
Calibration Location : Calibration Laboratory

Calibration Condition

Ambient Temperature : (20 ± 3) °C
Stabilizing Time : 30 minutes
Ambient Pressure : (1000 ± 50) hPa
Relative Humidity : (50±20) %
Sampling : As received

Reference equipment

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

Calibration specification

- To perform the calibration of sound level calibrator.

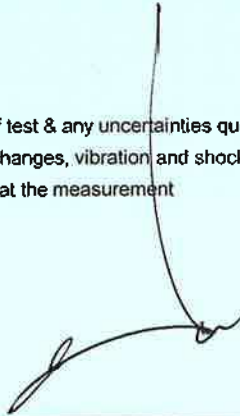
Calibration result

- The results are detailed on the subsequent pages.

Remarks

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

Calibrated By : Tony MA
(Technician)

Approved By: 
CHAN Chi Wai



Calibration Certificate

Certificate No. : CSA38446

Page : 2 of 2

Calibration Result:

1. Measured Sound Pressure Level:

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

2. Actual Output Frequency:

| Nominal Frequency (Hz) | Nominal Output Sound Pressure (dB) | Measured Output (Hz) | Expanded Uncertainty (Hz) | Coverage Factor |
|------------------------|------------------------------------|----------------------|---------------------------|-----------------|
| 1000 | 94.0 | 960.783 | 0.057 | 2.0 |

Remark:

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

End of certificate



Calibration Certificate

Certificate No. : CSA44621
Page : 1 of 3

Information Provided by Customer

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

Information of Unit-under-test (UUT)

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

Laboratory Information

Lab. Ref. No. : Q/CAL/24/S138/I
Date of Calibration : 16-Jul-2024
Date of Issue : 18-Jul-2024
Procedure : CQS/001/A
Date of Receipt : 25-Jun-2024
Calibration Location : Calibration Laboratory

Calibration Condition

Ambient Temperature : (20 ± 3) °C
Stabilizing Time : 30 minutes
Ambient Pressure : (1000 ± 50) hPa
Relative Humidity : (50 ± 20) %
Sampling : As received

Reference equipment

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

Calibration specification

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

Calibration result

- The results are detailed on the subsequent pages.

Remarks

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measured at the time of test & any uncertainties quoted will not include allowance for the equipment long term drift, variations 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



Calibration Certificate

Certificate No. : CSA44621

Page : 2 of 3

Calibration Result:

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

| Range / Mode | | Reference Level | REF Frequency (kHz) | UUT Reading | Deviation | Expanded Uncertainty | Coverage Factor |
|--------------|----------|-----------------|---------------------|-------------|-----------|----------------------|-----------------|
| A-Weighting | Self-cal | 94.0 | 1 | 93.9 | -0.1 | 0.13 | 2.0 |
| | Range | 104.0 | | 103.9 | -0.1 | 0.13 | 2.0 |
| | Mode | 114.0 | | 113.9 | -0.1 | 0.13 | 2.0 |
| | Self-cal | 94.0 | 1 | 93.8 | -0.2 | 0.13 | 2.0 |
| | Range | 104.0 | | 103.9 | -0.1 | 0.13 | 2.0 |
| | Mode | 114.0 | | 113.9 | -0.1 | 0.13 | 2.0 |
| C-Weighting | Self-cal | 94.0 | 1 | 93.8 | -0.2 | 0.13 | 2.0 |
| | Range | 104.0 | | 103.9 | -0.1 | 0.15 | 2.0 |
| | Mode | 114.0 | | 113.8 | -0.2 | 0.13 | 2.0 |
| | Self-cal | 94.0 | 1 | 93.8 | -0.2 | 0.13 | 2.0 |
| | Range | 104.0 | | 103.9 | -0.1 | 0.15 | 2.0 |
| | Mode | 114.0 | | 113.9 | -0.1 | 0.13 | 2.0 |
| Z-Weighting | Self-cal | 94.0 | 1 | 93.8 | -0.2 | 0.13 | 2.0 |
| | Range | 104.0 | | 103.9 | -0.1 | 0.13 | 2.0 |
| | Mode | 114.0 | | 113.9 | -0.1 | 0.13 | 2.0 |
| | Self-cal | 94.0 | 1 | 93.8 | -0.2 | 0.13 | 2.0 |
| | Range | 104.0 | | 103.9 | -0.1 | 0.13 | 2.0 |
| | Mode | 114.0 | | 113.9 | -0.1 | 0.13 | 2.0 |

Remark:

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



Calibration Certificate

Certificate No. : CSA44621

Page : 3 of 3

Calibration Result:

Acoustic Sensitivity and Frequency Response:

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

| Range | Mode | Applied Level | Frequency (Hz) | Reference Level | UUT Reading | Deviation | Expanded Uncertainty | Coverage Factor |
|-----------|------|---------------|----------------|-----------------|-------------|-----------|----------------------|-----------------|
| 30 to 130 | Fast | 94 | 31.5 | 54.6 | 32.2 | -22.4 | 0.15 | 2.0 |
| | | | 63 | 67.8 | 50.0 | -17.8 | 0.13 | 2.0 |
| | | | 125 | 77.9 | 65.5 | -12.4 | 0.13 | 2.0 |
| | | | 250 | 85.4 | 78.1 | -7.3 | 0.12 | 2.0 |
| | | | 500 | 90.8 | 87.8 | -3.0 | 0.14 | 2.0 |
| | | | 1000 (Ref.) | 94.0 | 93.8 | -0.2 | 0.13 | 2.0 |
| | | | 2000 | 95.1 | 95.0 | -0.1 | 0.13 | 2.0 |
| | | | 4000 | 94.9 | 93.5 | -1.4 | 0.13 | 2.0 |
| | | | 8000 | 92.9 | 89.6 | -3.3 | 0.14 | 2.0 |
| | | | 12500 | 89.7 | 83.4 | -6.3 | 0.14 | 2.0 |
| 16000 | 87.5 | 79.5 | -8.0 | 0.14 | 2.0 | | | |

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

| Range | Mode | Applied Level | Frequency (Hz) | Reference Level | UUT Reading | Deviation | Expanded Uncertainty | Coverage Factor |
|-----------|------|---------------|----------------|-----------------|-------------|-----------|----------------------|-----------------|
| 30 to 130 | Fast | 94 | 31.5 | 91.0 | 67.6 | -23.4 | 0.15 | 2.0 |
| | | | 63 | 93.2 | 75.4 | -17.8 | 0.15 | 2.0 |
| | | | 125 | 93.8 | 81.6 | -12.2 | 0.15 | 2.0 |
| | | | 250 | 94.0 | 86.8 | -7.2 | 0.12 | 2.0 |
| | | | 500 | 94.0 | 91.2 | -2.8 | 0.12 | 2.0 |
| | | | 1000 (Ref.) | 94.0 | 93.8 | -0.2 | 0.13 | 2.0 |
| | | | 2000 | 93.7 | 93.6 | -0.1 | 0.13 | 2.0 |
| | | | 4000 | 93.1 | 91.7 | -1.4 | 0.13 | 2.0 |
| | | | 8000 | 91.0 | 87.7 | -3.3 | 0.14 | 2.0 |
| | | | 12500 | 87.8 | 81.5 | -6.3 | 0.14 | 2.0 |
| 16000 | 85.6 | 77.5 | -8.1 | 0.14 | 2.0 | | | |

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

| Range | Mode | Applied Level | Frequency (Hz) | Reference Level | UUT Reading | Deviation | Expanded Uncertainty | Coverage Factor |
|-----------|------|---------------|----------------|-----------------|-------------|-----------|----------------------|-----------------|
| 30 to 130 | Fast | 94 | 31.5 | 94.0 | 70.6 | -23.4 | 0.14 | 2.0 |
| | | | 63 | 94.0 | 76.3 | -17.7 | 0.15 | 2.0 |
| | | | 125 | 94.0 | 81.8 | -12.2 | 0.15 | 2.0 |
| | | | 250 | 94.0 | 86.8 | -7.2 | 0.14 | 2.0 |
| | | | 500 | 94.0 | 91.1 | -2.9 | 0.12 | 2.0 |
| | | | 1000 (Ref.) | 94.0 | 93.8 | -0.2 | 0.13 | 2.0 |
| | | | 2000 | 94.0 | 93.8 | -0.2 | 0.13 | 2.0 |
| | | | 4000 | 94.0 | 92.5 | -1.5 | 0.13 | 2.0 |
| | | | 8000 | 94.0 | 90.6 | -3.4 | 0.14 | 2.0 |
| | | | 12500 | 94.0 | 88.0 | -6.0 | 0.14 | 2.0 |
| 16000 | 94.0 | 87.2 | -6.8 | 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

End of certificate

Appendix C2

Impact Noise Monitoring Results

Day-time Noise Monitoring

Monitoring Location: TKO-N1 (Site Egress)

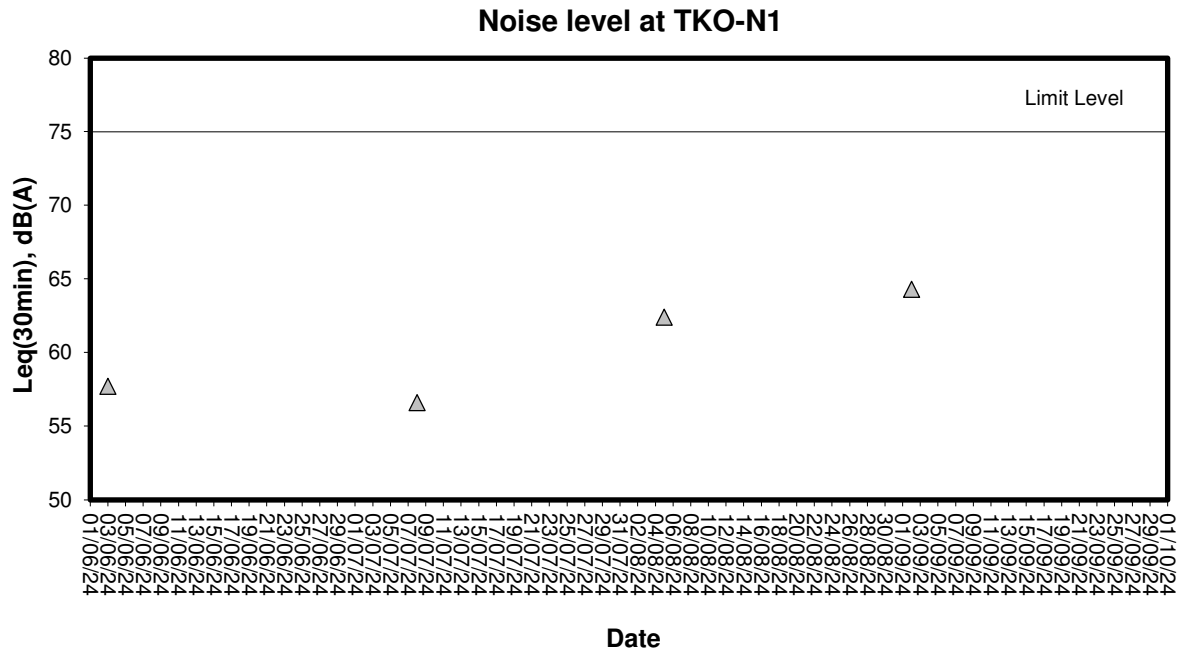
| Date | Start Sampling Time (hh:mm) | Noise Level dB (A) | | | Wind Speed (m/s) | Weather Condition | Major Noise Source |
|------------|--------------------------------|------------------------|-----------------|-----------------|---------------------|-------------------|-----------------------|
| | | L _{eq(30min)} | L ₁₀ | L ₉₀ | | | |
| 02/09/2024 | 09:20 | 64.3 | 66.0 | 60.2 | 0.2 | Cloudy | Dump Truck passing by |

Remark: 3dB(A) correction was added to the results during the free-field noise measurements

Appendix C3

Graphical Plots of Impact Noise Monitoring Data

Noise Monitoring (Day-time)



Appendix D1

Calibration Certificates for Impact Marine Water Quality Monitoring Equipments



Performance Check / Calibration of Multiparameter Water Quality Meter

Equipment Ref. No. : ET/EW/008/011
Model No. : Pro DSS
Date of Calibration : 15/7/2024

Manufacturer : YSI
Serial No. : 18M101760
Calibration Due Date : 14/10/2024

Results

1. Temperature

(Method Reference: Section 6 of international 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) |
|---------------------------------------|------------------------|----------------|
| 20.2 | 20.6 | +0.4 |
| 25.5 | 26.0 | +0.5 |
| 28.6 | 28.3 | -0.3 |

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 ($\mu\text{S/cm}$) | Displayed Reading ($\mu\text{S/cm}$) | Tolerance (%) |
|---------------------------------------|--|---------------|
| 146.9 | 147.8 | +0.6 |
| 1412 | 1434 | +1.6 |
| 12890 | 12935 | +0.3 |
| 58760 | 60201 | +2.5 |

Tolerance Limit ($\mu\text{S/cm}$): $\pm 10.0\%$

4. Salinity

(Method Reference: APHA 19ed 2520 B)

| Expected Reading (g/L) | Displayed Reading (g/L) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 10.0 | 9.97 | -0.3 |
| 20.0 | 20.36 | +1.8 |
| 30.0 | 30.63 | +2.1 |

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



Performance Check / Calibration of Multiparameter Water Quality Meter

Equipment Ref. No. : ET/EW/008/011
Model No. : Pro DSS
Date of Calibration : 15/7/2024

Manufacturer : YSI
Serial No. : 18M101760
Calibration Due Date : 14/10/2024

5. Dissolved Oxygen (Method Reference: APHA 19ed 4500-O G)

| Expected Reading (mg/L) | Displayed Reading (mg/L) | Tolerance (mg/L) |
|-------------------------|--------------------------|------------------|
| 1.88 | 1.95 | +0.07 |
| 4.73 | 4.71 | -0.02 |
| 6.24 | 6.13 | -0.11 |

Tolerance Limit (mg/L): ± 0.20

6. Turbidity (Method Reference: APHA 19ed 2130 B)

| Expected Reading (NTU) | Displayed Reading (NTU) | Tolerance (%) |
|------------------------|-------------------------|---------------|
| 10 | 9.7 | -3.0 |
| 40 | 39.7 | -0.75 |
| 100 | 104.0 | +4.0 |
| 400 | 412.0 | +3.0 |

Tolerance Limit (NTU): $\pm 10.0\%$

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

[#] Delete as appropriate

Calibrated by : Toby

Approved by : [Signature]

Appendix D2

Impact Marine Water Quality Monitoring Results

Mid-Flood Tide

Monitoring Station : TKO-C1

| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|--------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Depth-average | Value | Average | Depth-average |
| 2/9/2024 | 16:35:51 | 30 | Surface | 1.0 | 26.6 | 33.1 | 33.1 | 6.06 | 6.21 | 5.85 | 91.0 | 93.3 | 0.99 | 0.92 | 2.15 | 2.5 | 2.2 | 1.9 |
| | | | | 11.1 | 24.0 | 33.0 | | 6.35 | | | 95.5 | | 0.85 | | | 1.8 | | |
| | | | / Cloudy | Middle | 11.1 | 24.0 | 35.3 | 35.3 | 5.49 | | 5.50 | 79.8 | 80.0 | 2.56 | | 2.53 | 1.6 | |
| | | 21.0 | | | 24.0 | 35.3 | 35.3 | 5.51 | 5.50 | 80.2 | 80.0 | 2.50 | 2.53 | 1.6 | | | | |
| | | Bottom | | 21.0 | 24.0 | 35.4 | 35.4 | 4.76 | 4.75 | 4.75 | 69.2 | 69.1 | 2.97 | 2.99 | | 1.9 | | |
| | | 4/9/2024 | 17:35:59 | 30 | Surface | 1.0 | 27.9 | 32.8 | 32.8 | 6.72 | 6.83 | 6.18 | 102.8 | 104.6 | | 1.14 | 1.12 | |
| 11.1 | 24.0 | | | | | 32.8 | 6.94 | 106.3 | | 1.10 | | | 4.3 | | | | | |
| / Cloudy | Middle | | | | 11.1 | 24.0 | 35.5 | 35.4 | 5.49 | 5.52 | 79.9 | | 80.4 | 2.49 | 2.49 | 2.1 | | |
| | | | | 21.1 | 23.7 | 35.4 | 35.7 | 5.55 | 5.52 | 80.9 | 80.4 | 2.48 | 2.49 | 1.8 | | | | |
| | Bottom | | | 21.1 | 23.7 | 35.7 | 35.7 | 4.86 | 4.84 | 4.84 | 70.5 | 70.2 | 3.25 | 3.29 | 3.2 | | | |
| 7/9/2024 | 8:30:34 | | | 29 | Surface | 1.0 | 27.5 | 25.4 | 25.4 | 6.45 | 6.43 | 6.08 | 94.1 | 93.8 | 1.26 | 1.28 | 1.80 | 3.2 |
| | | 11.6 | 24.2 | | | 25.4 | 6.41 | 93.5 | | 1.29 | | | 2.5 | | | | | |
| | | / Rain | Middle | | 11.6 | 24.2 | 31.4 | 31.4 | 5.74 | 5.73 | 81.9 | | 81.8 | 1.87 | 1.88 | 1.8 | | |
| | | | | 22.0 | 23.6 | 31.5 | 31.5 | 5.72 | 5.73 | 81.6 | 81.8 | 1.89 | 1.88 | 3.5 | | | | |
| | | | Bottom | 22.0 | 23.6 | 32.7 | 32.8 | 5.26 | 5.25 | 5.25 | 74.8 | 74.6 | 2.23 | 2.25 | 2.2 | | | |
| | | 9/9/2024 | 9:19:09 | 26 | Surface | 1.0 | 27.9 | 32.8 | 32.8 | 5.68 | 5.68 | 5.63 | 87.0 | 87.0 | 1.50 | 1.50 | | 1.84 |
| 10.9 | 27.9 | | | | | 32.8 | 5.68 | 87.0 | | 1.50 | | | 2.6 | | | | | |
| / Cloudy | Middle | | | | 10.9 | 27.9 | 32.9 | 32.9 | 5.57 | 5.57 | 85.3 | | 85.3 | 1.87 | 1.87 | 3.0 | | |
| | | | | 20.2 | 28.0 | 32.9 | 32.9 | 5.57 | 5.57 | 85.3 | 85.3 | 1.86 | 1.87 | 4.4 | | | | |
| | Bottom | | | 20.2 | 28.0 | 33.4 | 33.4 | 5.30 | 5.30 | 5.30 | 81.6 | 81.6 | 2.15 | 2.17 | 4.5 | | | |
| 12/9/2024 | 15:17:10 | | | 30 | Surface | 1.0 | 28.4 | 32.1 | 32.1 | 5.66 | 5.66 | 5.62 | 87.1 | 87.1 | 1.92 | 1.92 | 2.26 | |
| | | 10.6 | 28.4 | | | 32.1 | 5.66 | 87.0 | | 1.91 | | | 3.7 | | | | | |
| | | / Fine | Middle | | 10.6 | 28.4 | 32.7 | 32.7 | 5.58 | 5.58 | 86.1 | | 86.0 | 2.25 | 2.28 | 3.3 | | |
| | | | | 19.7 | 28.4 | 32.7 | 32.9 | 5.57 | 5.58 | 85.9 | 86.0 | 2.31 | 2.28 | 3.9 | | | | |
| | | | Bottom | 19.7 | 28.4 | 32.9 | 32.9 | 5.57 | 5.58 | 5.58 | 86.0 | 86.1 | 2.58 | 2.58 | 1.5 | | | |
| | | 14/9/2024 | 16:03:27 | 29 | Surface | 1.0 | 28.8 | 32.6 | 32.6 | 7.21 | 7.27 | 6.82 | 112.0 | 112.8 | 1.28 | 1.28 | | 1.58 |
| 11.6 | 28.8 | | | | | 32.6 | 7.32 | 113.6 | | 1.28 | | | 3.1 | | | | | |
| / Rain | Middle | | | | 11.6 | 28.8 | 32.7 | 32.7 | 6.45 | 6.37 | 100.1 | | 98.9 | 1.37 | 1.37 | 3.6 | | |
| | | | | 22.0 | 28.6 | 32.8 | 32.8 | 6.29 | 6.37 | 97.6 | 98.9 | 1.37 | 1.37 | 5.9 | | | | |
| | Bottom | | | 22.0 | 28.6 | 33.4 | 33.4 | 5.88 | 5.85 | 5.85 | 91.4 | 90.9 | 2.10 | 2.09 | 3.2 | | | |
| 16/9/2024 | 16:02:03 | | | 28 | Surface | 1.0 | 28.3 | 34.0 | 33.9 | 5.74 | 5.76 | 5.65 | 89.0 | 89.3 | 2.67 | 2.65 | 2.88 | |
| | | 10.5 | 28.1 | | | 33.9 | 5.78 | 89.6 | | 2.62 | | | 2.9 | | | | | |
| | | / Cloudy | Middle | | 10.5 | 28.1 | 34.2 | 34.1 | 5.52 | 5.54 | 85.4 | | 85.7 | 2.83 | 2.88 | 2.5 | | |
| | | | | 19.5 | 28.0 | 34.1 | 34.3 | 5.55 | 5.54 | 85.9 | 85.7 | 2.93 | 2.88 | 2.5 | | | | |
| | | | Bottom | 19.5 | 28.0 | 34.3 | 34.3 | 5.46 | 5.46 | 5.46 | 84.4 | 84.4 | 3.12 | 3.11 | 4.1 | | | |
| | | 19/9/2024 | 17:15:05 | 30 | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 5.81 | 5.81 | 5.83 | 90.7 | 90.7 | 3.09 | 3.10 | | 3.18 |
| 9.9 | 29.0 | | | | | 33.2 | 5.80 | 90.6 | | 3.11 | | | 1.8 | | | | | |
| / Cloudy | Middle | | | | 9.9 | 29.0 | 33.3 | 33.3 | 5.84 | 5.86 | 91.3 | | 91.5 | 3.11 | 3.09 | 1.5 | | |
| | | | | 19.0 | 29.0 | 33.4 | 33.3 | 5.87 | 5.86 | 91.7 | 91.5 | 3.07 | 3.09 | 2.4 | | | | |
| | Bottom | | | 19.0 | 29.0 | 33.5 | 33.5 | 5.24 | 5.25 | 5.25 | 82.0 | 82.1 | 3.37 | 3.36 | 2.1 | | | |
| 21/9/2024 | 7:00:30 | | | 27 | Surface | 1.0 | 29.0 | 28.5 | 28.5 | 6.29 | 6.28 | 6.08 | 95.7 | 95.6 | 2.86 | 2.85 | 3.14 | |
| | | 11.3 | 29.0 | | | 28.5 | 6.27 | 95.4 | | 2.84 | | | 2.0 | | | | | |
| | | / Rain | Middle | | 11.3 | 29.0 | 32.6 | 32.6 | 5.88 | 5.88 | 91.5 | | 91.5 | 3.15 | 3.16 | 2.2 | | |
| | | | | 21.6 | 28.9 | 32.6 | 32.6 | 5.87 | 5.88 | 91.4 | 91.5 | 3.16 | 3.16 | 2.0 | | | | |
| | | | Bottom | 21.6 | 28.9 | 33.3 | 33.3 | 5.62 | 5.61 | 5.61 | 87.7 | 87.6 | 3.38 | 3.41 | 3.4 | | | |
| | | 23/9/2024 | 9:00:48 | 26 | Surface | 1.0 | 28.9 | 32.9 | 32.9 | 6.19 | 6.19 | 6.15 | 96.4 | 96.3 | 2.56 | 2.58 | | 3.10 |
| 10.4 | 28.8 | | | | | 32.9 | 6.18 | 96.2 | | 2.59 | | | 4.5 | | | | | |
| / Cloudy | Middle | | | | 10.4 | 28.8 | 33.5 | 33.5 | 6.07 | 6.12 | 94.7 | | 95.4 | 3.25 | 3.27 | 6.5 | | |
| | | | | 19.2 | 28.8 | 33.5 | 33.5 | 6.16 | 6.12 | 96.1 | 95.4 | 3.28 | 3.27 | 7.1 | | | | |
| | Bottom | | | 19.2 | 28.8 | 34.1 | 34.1 | 5.84 | 5.83 | 5.83 | 91.4 | 91.2 | 3.47 | 3.46 | 5.7 | | | |
| 25/9/2024 | 14:15:06 | | | 28 | Surface | 1.0 | 28.8 | 32.2 | 32.2 | 5.93 | 5.93 | 5.89 | 91.8 | 91.8 | 2.16 | 2.15 | 2.60 | |
| | | 10.0 | 28.7 | | | 32.2 | 5.93 | 91.8 | | 2.14 | | | 4.1 | | | | | |
| | | / Cloudy | Middle | | 10.0 | 28.7 | 32.3 | 32.4 | 5.86 | 5.85 | 90.7 | | 90.5 | 2.69 | 2.69 | 5.0 | | |
| | | | | 18.9 | 28.7 | 32.4 | 32.4 | 5.83 | 5.85 | 90.2 | 90.5 | 2.69 | 2.69 | 4.3 | | | | |
| | | | Bottom | 18.9 | 28.7 | 33.3 | 33.3 | 5.57 | 5.57 | 5.57 | 86.6 | 86.6 | 2.96 | 2.95 | 2.9 | | | |
| | | 27/9/2024 | 15:14:11 | 30 | Surface | 1.0 | 29.1 | 32.7 | 32.7 | 5.89 | 5.90 | 5.81 | 91.9 | 92.1 | 1.84 | 1.86 | | 2.72 |
| 11.3 | 29.0 | | | | | 32.7 | 5.91 | 92.2 | | 1.88 | | | 2.8 | | | | | |
| / Cloudy | Middle | | | | 11.3 | 29.0 | 33.5 | 33.6 | 5.71 | 5.72 | 89.4 | | 89.6 | 2.77 | 2.78 | 1.7 | | |
| | | | | 22.0 | 28.8 | 33.7 | 34.7 | 5.73 | 5.73 | 89.8 | 89.6 | 2.79 | 2.78 | 1.5 | | | | |
| | Bottom | | | 22.0 | 28.8 | 34.7 | 34.7 | 5.33 | 5.34 | 5.34 | 83.7 | 83.8 | 3.52 | 3.52 | 1.1 | | | |
| 30/9/2024 | 16:17:17 | | | 30 | Surface | 1.0 | 29.0 | 34.0 | 34.0 | 6.33 | 6.36 | 6.18 | 99.5 | 99.9 | 2.32 | 2.33 | 2.75 | |
| | | 10.1 | 29.0 | | | 33.9 | 6.39 | 100.3 | | 2.33 | | | 1.4 | | | | | |
| | | / Cloudy | Middle | | 10.1 | 29.0 | 34.2 | 34.2 | 6.01 | 6.00 | 94.5 | | 94.3 | 2.88 | 2.87 | 2.7 | | |
| | | | | 18.8 | 28.9 | 34.3 | 34.5 | 5.99 | 5.52 | 94.1 | 94.3 | 2.86 | 2.87 | 2.0 | | | | |
| | | | Bottom | 18.8 | 28.9 | 34.5 | 34.5 | 5.53 | 5.52 | 5.52 | 86.8 | 86.7 | 3.05 | 3.04 | 2.8 | | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

Mid-Flood Tide

Monitoring Station : TKO-M4

| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|-------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Depth-average | Value | Average | Depth-average |
| 2/9/2024 | 17:44:30 | 30 | Surface | 1.0 | 27.1 | 32.9 | 32.9 | 6.68 | 6.69 | 6.50 | 100.9 | 101.0 | 0.68 | 0.69 | 1.29 | 1.7 | 2.5 | 2.7 |
| | | | | | | 32.9 | | 6.69 | | | 101.1 | | 0.70 | | | 3.3 | | |
| | | | Middle | 5.8 | 25.7 | 33.8 | 33.8 | 6.41 | 6.32 | 94.8 | 93.5 | 0.90 | 0.97 | 3.5 | | | | |
| | | 33.9 | 6.22 | 92.2 | 1.03 | 3.4 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 9.9 | 24.1 | 35.3 | 35.3 | 4.80 | 4.79 | 69.9 | 69.7 | 2.18 | 2.20 | 1.9 | | 2.3 | | |
| | | | | | | 35.3 | | 4.77 | | 69.4 | | 2.22 | | 2.6 | | | | |
| 32.8 | 7.03 | | | | | 107.8 | 1.02 | 5.2 | | | | | | | | | | |
| 4/9/2024 | 18:45:15 | 30 | Surface | 1.0 | 28.0 | 32.8 | 32.8 | 7.03 | 7.09 | 6.43 | 108.8 | 108.8 | 1.02 | 1.00 | 1.89 | 5.2 | 4.3 | 3.0 |
| | | | | | | 32.9 | | 7.15 | | | 109.7 | | 0.97 | | | 3.4 | | |
| | | | Middle | 5.3 | 25.3 | 34.5 | 34.4 | 5.73 | 5.76 | 84.8 | 85.4 | 2.04 | 2.00 | 3.6 | | | | |
| | | 34.4 | 5.79 | 85.9 | 1.95 | 2.1 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 9.1 | 24.5 | 35.0 | 35.0 | 5.07 | 5.08 | 74.2 | 74.5 | 2.73 | 2.67 | 1.6 | | 1.8 | | |
| | | | | | | 34.9 | | 5.09 | | 74.7 | | 2.61 | | 1.9 | | | | |
| 32.8 | 7.03 | | | | | 107.8 | 1.02 | 5.2 | | | | | | | | | | |
| 7/9/2024 | 9:35:10 | 29 | Surface | 1.0 | 27.8 | 25.6 | 25.6 | 6.08 | 6.07 | 6.00 | 89.3 | 89.1 | 1.05 | 1.07 | 1.63 | 3.0 | 3.3 | 3.1 |
| | | | | | | 25.6 | | 6.05 | | | 88.8 | | 1.09 | | | 3.6 | | |
| | | | Middle | 5.3 | 24.5 | 31.5 | 31.5 | 5.96 | 5.94 | 85.5 | 85.3 | 1.73 | 1.74 | 2.7 | | | | |
| | | 31.5 | 5.92 | 85.0 | 1.74 | 4.5 | | | | | | | | | | | | |
| | | / Rain | Bottom | 9.7 | 24.0 | 32.7 | 32.7 | 5.44 | 5.44 | 77.9 | 77.9 | 2.06 | 2.08 | 3.5 | | 2.3 | | |
| | | | | | | 32.7 | | 5.43 | | 77.8 | | 2.10 | | 1.1 | | | | |
| 32.6 | 5.68 | | | | | 86.9 | 1.65 | 3.9 | | | | | | | | | | |
| 9/9/2024 | 10:40:09 | 26 | Surface | 1.0 | 27.9 | 32.6 | 32.6 | 5.68 | 5.69 | 5.66 | 87.0 | 87.0 | 1.66 | 1.66 | 1.97 | 2.0 | 3.0 | 2.9 |
| | | | | | | 32.6 | | 5.69 | | | 87.0 | | 1.66 | | | 2.0 | | |
| | | | Middle | 5.5 | 27.9 | 32.7 | 32.7 | 5.65 | 5.64 | 86.4 | 86.2 | 1.87 | 1.92 | 2.9 | | | | |
| | | 32.7 | 5.62 | 86.0 | 1.96 | 3.1 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 10.0 | 28.0 | 33.1 | 33.1 | 5.18 | 5.18 | 79.5 | 79.6 | 2.36 | 2.34 | 2.5 | | 2.7 | | |
| | | | | | | 33.2 | | 5.18 | | 79.6 | | 2.32 | | 2.8 | | | | |
| 32.6 | 5.68 | | | | | 86.9 | 1.65 | 3.9 | | | | | | | | | | |
| 12/9/2024 | 16:25:06 | 30 | Surface | 1.0 | 28.4 | 32.3 | 32.3 | 5.62 | 5.62 | 5.61 | 84.5 | 85.5 | 2.11 | 2.11 | 2.23 | 2.6 | 2.5 | 2.8 |
| | | | | | | 32.3 | | 5.62 | | | 86.5 | | 2.10 | | | 2.3 | | |
| | | | Middle | 5.9 | 28.4 | 32.3 | 32.3 | 5.60 | 5.60 | 86.2 | 86.2 | 2.19 | 2.19 | 2.5 | | | | |
| | | 32.4 | 5.59 | 86.1 | 2.19 | 4.1 | | | | | | | | | | | | |
| | | / Fine | Bottom | 9.4 | 28.4 | 32.6 | 32.6 | 5.54 | 5.54 | 85.4 | 85.4 | 2.38 | 2.38 | 3.2 | | 2.8 | | |
| | | | | | | 32.6 | | 5.53 | | 85.3 | | 2.38 | | 2.3 | | | | |
| 32.3 | 5.76 | | | | | 120.4 | 1.25 | 4.1 | | | | | | | | | | |
| 14/9/2024 | 17:20:12 | 29 | Surface | 1.0 | 28.9 | 32.3 | 32.3 | 7.76 | 7.77 | 7.76 | 120.5 | 120.5 | 1.23 | 1.24 | 1.26 | 5.8 | 5.0 | 4.3 |
| | | | | | | 32.3 | | 7.77 | | | 120.5 | | 1.23 | | | 3.2 | | |
| | | | Middle | 5.6 | 28.9 | 32.4 | 32.4 | 7.77 | 7.76 | 120.5 | 120.4 | 1.28 | 1.29 | 4.6 | | | | |
| | | 32.4 | 7.75 | 120.2 | 1.29 | 4.6 | | | | | | | | | | | | |
| | | / Rain | Bottom | 9.3 | 28.8 | 32.5 | 32.5 | 7.18 | 7.16 | 111.4 | 111.0 | 1.25 | 1.26 | 4.3 | | 4.2 | | |
| | | | | | | 32.5 | | 7.13 | | 110.6 | | 1.26 | | 4.0 | | | | |
| 32.3 | 5.76 | | | | | 120.4 | 1.25 | 5.8 | | | | | | | | | | |
| 16/9/2024 | 17:21:06 | 28 | Surface | 1.0 | 28.4 | 33.8 | 33.8 | 6.00 | 6.00 | 5.98 | 93.1 | 93.1 | 2.38 | 2.36 | 2.53 | 2.3 | 2.4 | 3.0 |
| | | | | | | 33.8 | | 6.00 | | | 93.1 | | 2.34 | | | 2.4 | | |
| | | | Middle | 4.9 | 28.4 | 33.8 | 33.8 | 5.95 | 5.96 | 92.4 | 92.6 | 2.43 | 2.41 | 3.4 | | | | |
| | | 33.8 | 5.97 | 92.7 | 2.39 | 4.1 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 8.6 | 28.3 | 33.9 | 33.9 | 5.83 | 5.84 | 90.4 | 90.6 | 2.80 | 2.81 | 3.1 | | 2.9 | | |
| | | | | | | 33.9 | | 5.85 | | 90.7 | | 2.81 | | 2.7 | | | | |
| 33.8 | 6.00 | | | | | 93.1 | 2.38 | 2.3 | | | | | | | | | | |
| 19/9/2024 | 18:19:34 | 30 | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 5.69 | 5.69 | 5.67 | 88.9 | 88.8 | 3.14 | 3.15 | 3.12 | 2.7 | 2.4 | 3.1 |
| | | | | | | 33.2 | | 5.68 | | | 88.7 | | 3.15 | | | 2.1 | | |
| | | | Middle | 5.4 | 29.0 | 33.2 | 33.2 | 5.66 | 5.66 | 88.4 | 88.4 | 3.10 | 3.12 | 4.0 | | | | |
| | | 33.2 | 5.66 | 88.4 | 3.13 | 3.6 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 9.4 | 29.0 | 33.3 | 33.3 | 5.69 | 5.70 | 89.0 | 89.2 | 3.08 | 3.09 | 3.7 | | 3.0 | | |
| | | | | | | 33.4 | | 5.71 | | 89.3 | | 3.10 | | 3.0 | | | | |
| 32.6 | 5.99 | | | | | 91.2 | 2.48 | 3.6 | | | | | | | | | | |
| 21/9/2024 | 8:11:41 | 27 | Surface | 1.0 | 29.0 | 28.6 | 28.6 | 5.99 | 5.98 | 5.80 | 91.2 | 91.0 | 2.48 | 2.49 | 2.92 | 3.6 | 3.5 | 2.8 |
| | | | | | | 28.7 | | 5.96 | | | 90.8 | | 2.50 | | | 3.4 | | |
| | | | Middle | 5.1 | 29.0 | 32.6 | 32.6 | 5.64 | 5.63 | 87.8 | 87.6 | 3.05 | 3.04 | 3.2 | | | | |
| | | 32.6 | 5.61 | 87.3 | 3.03 | 2.2 | | | | | | | | | | | | |
| | | / Rain | Bottom | 9.3 | 28.9 | 33.5 | 33.5 | 5.37 | 5.35 | 83.9 | 83.6 | 3.22 | 3.24 | 1.6 | | 2.3 | | |
| | | | | | | 33.5 | | 5.33 | | 83.3 | | 3.26 | | 2.9 | | | | |
| 33.0 | 5.70 | | | | | 88.7 | 3.15 | 3.8 | | | | | | | | | | |
| 23/9/2024 | 10:12:42 | 26 | Surface | 1.0 | 28.8 | 33.0 | 33.0 | 5.70 | 5.72 | 5.64 | 88.7 | 88.9 | 2.09 | 2.11 | 2.83 | 3.8 | 4.3 | 6.3 |
| | | | | | | 33.0 | | 5.73 | | | 89.1 | | 2.12 | | | 4.8 | | |
| | | | Middle | 5.2 | 28.7 | 33.2 | 33.2 | 5.54 | 5.56 | 86.1 | 86.5 | 2.77 | 2.78 | 5.9 | | | | |
| | | 33.3 | 5.58 | 86.8 | 2.78 | 7.1 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 9.1 | 28.7 | 33.6 | 33.6 | 5.49 | 5.49 | 85.5 | 85.5 | 3.59 | 3.60 | 7.6 | | 8.1 | | |
| | | | | | | 33.7 | | 5.48 | | 85.4 | | 3.61 | | 8.6 | | | | |
| 33.0 | 5.70 | | | | | 88.7 | 3.15 | 3.8 | | | | | | | | | | |
| 25/9/2024 | 15:20:23 | 28 | Surface | 1.0 | 28.9 | 32.1 | 32.1 | 5.83 | 5.83 | 5.76 | 90.4 | 90.3 | 2.00 | 1.99 | 2.40 | 3.1 | 4.4 | 3.7 |
| | | | | | | 32.1 | | 5.82 | | | 90.2 | | 1.97 | | | 5.7 | | |
| | | | Middle | 6.0 | 28.9 | 32.2 | 32.2 | 5.69 | 5.70 | 88.3 | 88.3 | 2.14 | 2.15 | 5.4 | | | | |
| | | 32.3 | 5.70 | 88.3 | 2.16 | 2.5 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 10.7 | 28.8 | 32.9 | 32.9 | 5.62 | 5.61 | 87.3 | 87.1 | 3.03 | 3.06 | 3.1 | | 2.6 | | |
| | | | | | | 33.0 | | 5.59 | | 86.9 | | 3.08 | | 2.1 | | | | |
| 33.4 | 5.71 | | | | | 89.3 | 3.10 | 3.0 | | | | | | | | | | |
| 27/9/2024 | 16:38:13 | 30 | Surface | 1.0 | 29.0 | 33.4 | 33.3 | 5.89 | 5.89 | 5.83 | 92.1 | 92.1 | 2.35 | 2.34 | 2.84 | 1.2 | 1.3 | 1.9 |
| | | | | | | 33.3 | | 5.89 | | | 92.1 | | 2.33 | | | 1.3 | | |
| | | | Middle | 5.5 | 28.9 | 33.9 | 33.8 | 5.75 | 5.77 | 90.0 | 90.2 | 2.90 | 2.91 | 2.0 | | | | |
| | | 33.8 | 5.78 | 90.4 | 2.92 | 3.3 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 9.9 | 28.9 | 34.2 | 34.2 | 5.36 | 5.36 | 84.1 | 84.0 | 3.26 | 3.28 | 1.9 | | 1.9 | | |
| | | | | | | 34.1 | | 5.35 | | 83.9 | | 3.29 | | 1.9 | | | | |
| 34.0 | 6.18 | | | | | 97.1 | 2.36 | 2.2 | | | | | | | | | | |
| 30/9/2024 | 17:51:05 | 30 | Surface | 1.0 | 29.1 | 34.0 | 34.0 | 6.18 | 6.19 | 6.12 | 97.2 | 97.2 | 2.35 | 2.36 | 2.92 | 1.7 | 2.0 | 3.2 |
| | | | | | | 34.0 | | 6.19 | | | 97.2 | | 2.35 | | | 1.7 | | |
| | | | Middle | 4.4 | 29.0 | 34.2 | 34.2 | 6.07 | 6.05 | 95.3 | 95.1 | 3.09 | 3.09 | 5.1 | | | | |
| | | 34.2 | 6.03 | 94.8 | 3.08 | 3.6 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 7.6 | 29.0 | 34.3 | 34.3 | 5.95 | 5.94 | 93.5 | 93.4 | 3.32 | 3.32 | 4.2 | | 3.3 | | |
| | | | | | | 34.3 | | 5.93 | | 93.2 | | 3.31 | | 2.4 | | | | |
| 34.0 | 6.18 | | | | | 97.1 | 2.36 | 2.2 | | | | | | | | | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

Mid-Ebb Tide

Monitoring Station : TKO-C1

| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Depth-average | Value | Average | Depth-average |
| 2/9/2024 | 11:36:29 | 30 | Surface | 1.0 | 26.8 | 32.8 | 32.8 | 6.69 | 6.70 | 6.11 | 100.4 | 100.7 | 0.81 | 0.80 | 2.05 | 2.1 | 2.7 | 1.8 |
| | | | | | | 32.7 | | 6.71 | | | 100.9 | | 0.78 | | | 3.3 | | |
| | | | Middle | 11.3 | 24.4 | 35.1 | 35.1 | 5.55 | 5.52 | 81.1 | 80.7 | 2.37 | 2.41 | 1.0 | | | | |
| | | / Cloudy | Bottom | 21.4 | 24.1 | 35.3 | 35.4 | 4.96 | 4.94 | 72.3 | 71.9 | 2.91 | 2.95 | 1.5 | | 1.5 | | |
| | | | | | | 35.4 | | 4.91 | | 71.4 | | 2.98 | | 1.4 | | | | |
| | | | Surface | 1.0 | 28.0 | 33.0 | 33.0 | 7.85 | 7.87 | 120.7 | 120.9 | 0.60 | 0.61 | 5.7 | | 4.6 | | |
| 4/9/2024 | 12:36:18 | 30 | Surface | 1.0 | 28.0 | 33.0 | 33.0 | 7.88 | 7.87 | 6.90 | 120.7 | 120.9 | 0.61 | 0.61 | 1.82 | 3.4 | 2.4 | 3.0 |
| | | | | | | 35.1 | | 6.11 | | | 89.5 | | 1.86 | | | 2.3 | | |
| | | | Middle | 11.4 | 24.5 | 35.2 | 35.2 | 5.75 | 5.93 | 84.1 | 86.8 | 1.91 | 1.89 | 2.4 | | | | |
| | | / Cloudy | Bottom | 21.4 | 23.6 | 35.8 | 35.8 | 5.04 | 5.04 | 73.0 | 72.9 | 3.02 | 2.97 | 1.9 | | 2.0 | | |
| | | | | | | 35.8 | | 5.03 | | 72.8 | | 2.91 | | 2.0 | | | | |
| | | | Surface | 1.0 | 27.7 | 25.4 | 25.4 | 6.23 | 6.23 | 91.2 | 91.2 | 1.32 | 1.34 | 2.0 | | 2.7 | | |
| 7/9/2024 | 13:30:09 | 29 | Surface | 1.0 | 27.7 | 25.4 | 25.4 | 6.22 | 6.23 | 6.05 | 91.2 | 91.2 | 1.36 | 1.34 | 1.89 | 3.3 | 1.9 | 2.0 |
| | | | | | | 31.4 | | 5.89 | | | 84.0 | | 1.79 | | | 2.1 | | |
| | | | Middle | 11.1 | 24.2 | 31.4 | 31.4 | 5.86 | 5.88 | 83.6 | 83.8 | 1.84 | 1.82 | 1.7 | | | | |
| | | / Rain | Bottom | 21.1 | 23.7 | 32.3 | 32.3 | 5.35 | 5.34 | 76.1 | 75.9 | 2.51 | 2.52 | 1.8 | | 1.5 | | |
| | | | | | | 32.3 | | 5.32 | | 75.7 | | 2.52 | | 1.2 | | | | |
| | | | Surface | 1.0 | 27.9 | 32.6 | 32.6 | 5.70 | 5.70 | 87.2 | 87.2 | 1.71 | 1.72 | 3.7 | | 4.0 | | |
| 9/9/2024 | 14:50:07 | 26 | Surface | 1.0 | 27.9 | 32.6 | 32.6 | 5.70 | 5.70 | 5.64 | 87.2 | 87.2 | 1.72 | 1.72 | 2.05 | 4.2 | 5.9 | 4.7 |
| | | | | | | 32.9 | | 5.59 | | | 85.6 | | 2.13 | | | 6.2 | | |
| | | | Middle | 10.5 | 27.9 | 33.0 | 33.0 | 5.57 | 5.58 | 85.4 | 85.5 | 2.18 | 2.16 | 5.6 | | | | |
| | | / Cloudy | Bottom | 19.8 | 28.0 | 33.6 | 33.6 | 5.30 | 5.31 | 81.7 | 81.8 | 2.27 | 2.27 | 4.4 | | 4.3 | | |
| | | | | | | 33.6 | | 5.31 | | 81.9 | | 2.27 | | 4.1 | | | | |
| | | | Surface | 1.0 | 28.3 | 32.2 | 32.2 | 5.68 | 5.68 | 87.2 | 87.2 | 2.01 | 2.01 | 2.8 | | 2.5 | | |
| 12/9/2024 | 8:00:12 | 30 | Surface | 1.0 | 28.3 | 32.2 | 32.2 | 5.67 | 5.67 | 5.67 | 87.1 | 87.2 | 2.01 | 2.01 | 2.55 | 2.1 | 2.8 | 3.1 |
| | | | | | | 32.7 | | 5.66 | | | 87.3 | | 2.84 | | | 2.4 | | |
| | | | Middle | 10.7 | 28.4 | 32.7 | 32.7 | 5.67 | 5.67 | 87.4 | 87.4 | 2.85 | 2.85 | 3.1 | | | | |
| | | / Fine | Bottom | 19.5 | 28.4 | 32.9 | 32.9 | 5.69 | 5.70 | 87.9 | 88.0 | 2.83 | 2.80 | 3.0 | | 4.1 | | |
| | | | | | | 32.9 | | 5.70 | | 88.1 | | 2.77 | | 5.1 | | | | |
| | | | Surface | 1.0 | 29.1 | 32.2 | 32.3 | 7.25 | 7.28 | 112.9 | 113.2 | 1.38 | 1.40 | 2.9 | | 3.3 | | |
| 14/9/2024 | 9:06:02 | 29 | Surface | 1.0 | 29.1 | 32.4 | 32.3 | 7.30 | 7.28 | 6.93 | 113.4 | 113.2 | 1.42 | 1.40 | 1.80 | 3.6 | 3.3 | 3.4 |
| | | | | | | 32.9 | | 6.59 | | | 102.4 | | 1.42 | | | 4.2 | | |
| | | | Middle | 11.5 | 28.8 | 33.0 | 32.9 | 6.58 | 6.59 | 102.3 | 102.4 | 1.47 | 1.45 | 4.3 | | | | |
| | | / Rain | Bottom | 21.5 | 28.6 | 33.5 | 33.6 | 5.73 | 5.70 | 89.0 | 88.5 | 2.58 | 2.57 | 2.0 | | 2.8 | | |
| | | | | | | 33.6 | | 5.66 | | 87.9 | | 2.55 | | 3.6 | | | | |
| | | | Surface | 1.0 | 28.4 | 33.8 | 33.8 | 6.09 | 6.05 | 94.5 | 93.9 | 2.03 | 2.01 | 2.3 | | 2.5 | | |
| 16/9/2024 | 10:13:29 | 28 | Surface | 1.0 | 28.4 | 33.9 | 33.8 | 6.00 | 6.05 | 5.90 | 93.2 | 93.9 | 1.99 | 2.01 | 2.80 | 2.7 | 2.8 | 3.2 |
| | | | | | | 34.0 | | 5.77 | | | 89.4 | | 2.81 | | | 3.0 | | |
| | | | Middle | 10.4 | 28.2 | 34.1 | 34.0 | 5.73 | 5.75 | 88.8 | 89.1 | 2.85 | 2.83 | 2.5 | | | | |
| | | / Cloudy | Bottom | 20.2 | 28.0 | 34.3 | 34.3 | 5.55 | 5.54 | 85.8 | 85.7 | 3.59 | 3.57 | 4.8 | | 4.4 | | |
| | | | | | | 34.3 | | 5.53 | | 85.5 | | 3.55 | | 3.9 | | | | |
| | | | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 5.87 | 5.86 | 91.7 | 91.5 | 3.11 | 3.10 | 2.6 | | 2.4 | | |
| 19/9/2024 | 11:15:06 | 30 | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 5.84 | 5.86 | 5.80 | 91.2 | 91.5 | 3.09 | 3.10 | 3.16 | 2.1 | 2.5 | 2.4 |
| | | | | | | 33.3 | | 5.76 | | | 90.0 | | 3.04 | | | 2.5 | | |
| | | | Middle | 9.9 | 29.0 | 33.3 | 33.3 | 5.74 | 5.75 | 89.7 | 89.9 | 3.07 | 3.06 | 2.4 | | | | |
| | | / Cloudy | Bottom | 18.7 | 29.0 | 33.6 | 33.6 | 5.27 | 5.28 | 82.5 | 82.6 | 3.32 | 3.34 | 2.2 | | 2.5 | | |
| | | | | | | 33.6 | | 5.28 | | 82.6 | | 3.35 | | 2.7 | | | | |
| | | | Surface | 1.0 | 29.1 | 27.7 | 27.7 | 6.18 | 6.14 | 93.8 | 93.2 | 2.98 | 2.98 | 3.8 | | 3.9 | | |
| 21/9/2024 | 13:01:03 | 27 | Surface | 1.0 | 29.1 | 27.7 | 27.7 | 6.09 | 6.14 | 6.00 | 92.5 | 93.2 | 2.97 | 2.98 | 3.10 | 3.9 | 4.2 | 3.9 |
| | | | | | | 32.5 | | 5.87 | | | 91.3 | | 3.13 | | | 4.4 | | |
| | | | Middle | 10.8 | 29.0 | 32.6 | 32.5 | 5.84 | 5.86 | 90.9 | 91.1 | 3.09 | 3.11 | 4.0 | | | | |
| | | / Rain | Bottom | 20.7 | 28.8 | 33.4 | 33.4 | 5.63 | 5.62 | 87.7 | 87.6 | 3.21 | 3.23 | 2.9 | | 3.7 | | |
| | | | | | | 33.4 | | 5.61 | | 87.4 | | 3.24 | | 4.4 | | | | |
| | | | Surface | 1.0 | 28.9 | 33.3 | 33.2 | 6.08 | 6.10 | 94.9 | 95.1 | 2.84 | 2.84 | 3.0 | | 3.3 | | |
| 23/9/2024 | 14:35:56 | 26 | Surface | 1.0 | 28.9 | 33.2 | 33.2 | 6.11 | 6.10 | 6.03 | 95.3 | 95.1 | 2.83 | 2.84 | 2.96 | 3.5 | 4.0 | 4.2 |
| | | | | | | 34.1 | | 5.95 | | | 93.3 | | 2.92 | | | 3.9 | | |
| | | | Middle | 11.4 | 28.9 | 34.1 | 34.1 | 5.96 | 5.96 | 93.4 | 93.4 | 2.93 | 2.93 | 4.1 | | | | |
| | | / Cloudy | Bottom | 21.3 | 28.8 | 34.2 | 34.2 | 5.57 | 5.56 | 87.2 | 87.0 | 3.11 | 3.12 | 4.7 | | 5.4 | | |
| | | | | | | 34.2 | | 5.54 | | 86.8 | | 3.13 | | 6.1 | | | | |
| | | | Surface | 1.0 | 28.9 | 32.1 | 32.1 | 6.06 | 6.04 | 93.9 | 93.6 | 2.07 | 2.08 | 3.5 | | 3.7 | | |
| 25/9/2024 | 7:13:09 | 28 | Surface | 1.0 | 28.9 | 32.1 | 32.1 | 6.01 | 6.04 | 5.99 | 93.2 | 93.6 | 2.08 | 2.08 | 2.90 | 3.8 | 3.6 | 3.3 |
| | | | | | | 32.9 | | 5.96 | | | 92.7 | | 3.14 | | | 2.7 | | |
| | | | Middle | 10.1 | 28.8 | 33.0 | 33.0 | 5.93 | 5.95 | 92.3 | 92.5 | 3.17 | 3.16 | 4.5 | | | | |
| | | / Cloudy | Bottom | 18.8 | 28.8 | 33.2 | 33.2 | 5.91 | 5.91 | 92.0 | 92.0 | 3.45 | 3.47 | 2.8 | | 2.8 | | |
| | | | | | | 33.2 | | 5.90 | | 91.9 | | 3.49 | | 2.7 | | | | |
| | | | Surface | 1.0 | 29.1 | 32.6 | 32.6 | 6.07 | 6.06 | 94.6 | 94.5 | 1.73 | 1.74 | 1.3 | | 1.6 | | |
| 27/9/2024 | 9:12:58 | 30 | Surface | 1.0 | 29.1 | 32.6 | 32.6 | 6.05 | 6.06 | 5.98 | 94.3 | 94.5 | 1.75 | 1.74 | 2.51 | 1.8 | 1.3 | 1.7 |
| | | | | | | 33.3 | | 5.91 | | | 92.5 | | 2.16 | | | 1.1 | | |
| | | | Middle | 11.4 | 29.1 | 33.4 | 33.4 | 5.88 | 5.90 | 92.1 | 92.3 | 2.11 | 2.14 | 1.5 | | | | |
| | | / Cloudy | Bottom | 21.7 | 29.0 | 33.9 | 33.9 | 5.43 | 5.43 | 85.2 | 85.2 | 3.64 | 3.66 | 1.7 | | 2.3 | | |
| | | | | | | 34.0 | | 5.43 | | 85.1 | | 3.68 | | 2.9 | | | | |
| | | | Surface | 1.0 | 29.0 | 32.8 | 32.9 | 6.38 | 6.39 | 99.4 | 99.6 | 2.12 | 2.13 | 4.2 | | 4.6 | | |
| 30/9/2024 | 10:17:02 | 30 | Surface | 1.0 | 29.0 | 33.0 | 32.9 | 6.39 | 6.39 | 6.22 | 99.7 | 99.6 | 2.14 | 2.13 | 2.72 | 5.0 | 3.2 | 3.3 |
| | | | | | | 34.2 | | 6.06 | | | 95.2 | | 2.63 | | | 2.7 | | |
| | | | Middle | 10.3 | 29.0 | 34.2 | 34.2 | 6.04 | 6.05 | 94.9 | 95.1 | 2.64 | 2.64 | 3.6 | | | | |
| | | / Cloudy | Bottom | 19.7 | 28.9 | 34.5 | 34.5 | 5.64 | 5.62 | 88.6 | 88.3 | 3.38 | 3.38 | 1.7 | | 2.1 | | |
| | | | | | | 34.5 | | 5.59 | | 87.9 | | 3.38 | | 2.4 | | | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

Mid-Ebb Tide

Monitoring Station : TKO-M4

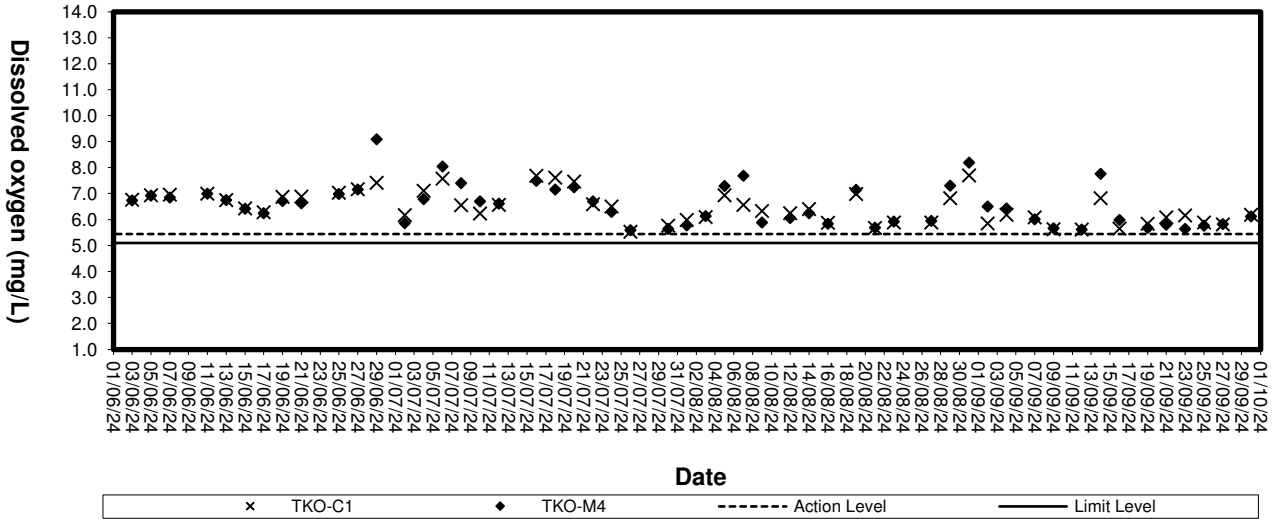
| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|-----|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Depth-average | Value | Average | Depth-average |
| 2/9/2024 | 12:50:59 | 30 | Surface | 1.0 | 26.7 | 32.9 | 32.9 | 6.72 | 6.84 | 6.68 | 100.9 | 102.7 | 0.80 | 0.79 | 0.92 | 1.6 | 1.7 | 1.9 |
| | | | | | | 32.9 | | 6.95 | | | 104.4 | | 0.77 | | | 1.8 | | |
| | | / Cloudy | Middle | 4.5 | 26.9 | 33.0 | 33.0 | 6.55 | 6.52 | | 98.6 | 98.2 | 0.77 | 0.78 | | 1.9 | 1.9 | |
| | | | | | | 33.0 | | 6.49 | | | 97.7 | | 0.79 | | | 1.8 | | |
| | | / Cloudy | Bottom | 7.7 | 25.1 | 34.2 | 34.4 | 5.98 | 5.93 | | 88.3 | 87.1 | 1.19 | 1.20 | | 2.6 | 2.0 | |
| | | | | | | 34.7 | | 5.87 | | | 85.8 | | 1.21 | | | 1.4 | | |
| 4/9/2024 | 13:43:24 | 30 | Surface | 1.0 | 28.0 | 33.0 | 33.0 | 7.91 | 7.92 | 7.32 | 121.5 | 121.6 | 0.57 | 0.57 | 1.20 | 1.4 | 1.7 | 3.3 |
| | | | | | | 33.0 | | 7.92 | | | 121.6 | | 0.57 | | | 1.9 | | |
| | | / Cloudy | Middle | 4.8 | 26.7 | 33.7 | 33.7 | 6.82 | 6.73 | | 103.0 | 101.6 | 1.01 | 1.06 | | 4.5 | 3.9 | |
| | | | | | | 33.7 | | 6.64 | | | 100.1 | | 1.11 | | | 3.3 | | |
| | | / Cloudy | Bottom | 8.2 | 25.5 | 34.4 | 34.4 | 5.63 | 5.62 | | 83.5 | 83.3 | 1.92 | 1.96 | | 4.1 | 4.4 | |
| | | | | | | 34.4 | | 5.61 | | | 83.1 | | 2.00 | | | 4.6 | | |
| 7/9/2024 | 14:33:43 | 29 | Surface | 1.0 | 27.7 | 25.7 | 25.8 | 5.99 | 5.97 | 5.87 | 87.9 | 87.6 | 1.33 | 1.33 | 1.78 | 1.6 | 1.5 | 2.2 |
| | | | | | | 25.8 | | 5.95 | | | 87.3 | | 1.32 | | | 1.3 | | |
| | | / Rain | Middle | 5.2 | 24.7 | 31.6 | 31.6 | 5.78 | 5.76 | | 83.3 | 83.0 | 1.67 | 1.68 | | 2.5 | 3.6 | |
| | | | | | | 31.7 | | 5.74 | | | 82.7 | | 1.69 | | | 4.6 | | |
| | | / Rain | Bottom | 9.5 | 24.1 | 32.6 | 32.6 | 5.52 | 5.50 | | 79.2 | 78.9 | 2.35 | 2.35 | | 1.2 | 1.5 | |
| | | | | | | 32.6 | | 5.48 | | | 78.5 | | 2.34 | | | 1.8 | | |
| 9/9/2024 | 16:14:05 | 26 | Surface | 1.0 | 27.9 | 32.6 | 32.6 | 5.55 | 5.55 | 5.52 | 84.8 | 84.8 | 1.88 | 1.88 | 2.35 | 5.4 | 5.1 | 5.4 |
| | | | | | | 32.6 | | 5.55 | | | 84.8 | | 1.87 | | | 4.7 | | |
| | | / Cloudy | Middle | 5.2 | 27.9 | 33.1 | 33.1 | 5.48 | 5.48 | | 84.0 | 84.1 | 2.53 | 2.56 | | 6.3 | 6.1 | |
| | | | | | | 33.2 | | 5.48 | | | 84.2 | | 2.58 | | | 5.9 | | |
| | | / Cloudy | Bottom | 9.2 | 28.0 | 33.4 | 33.4 | 5.21 | 5.22 | | 80.2 | 80.4 | 2.67 | 2.63 | | 5.7 | 5.1 | |
| | | | | | | 33.4 | | 5.23 | | | 80.5 | | 2.59 | | | 4.5 | | |
| 12/9/2024 | 9:11:06 | 30 | Surface | 1.0 | 28.4 | 32.1 | 32.1 | 5.61 | 5.61 | 5.61 | 86.3 | 86.3 | 1.83 | 1.85 | 2.12 | 4.5 | 4.7 | 3.4 |
| | | | | | | 32.1 | | 5.61 | | | 86.3 | | 1.86 | | | 4.8 | | |
| | | / Fine | Middle | 4.9 | 28.4 | 32.4 | 32.4 | 5.61 | 5.61 | | 86.4 | 86.4 | 2.03 | 2.06 | | 3.5 | 3.1 | |
| | | | | | | 32.4 | | 5.60 | | | 86.3 | | 2.09 | | | 2.7 | | |
| | | / Fine | Bottom | 8.8 | 28.4 | 32.7 | 32.7 | 5.52 | 5.52 | | 85.2 | 85.2 | 2.44 | 2.44 | | 2.9 | 2.5 | |
| | | | | | | 32.7 | | 5.52 | | | 85.2 | | 2.44 | | | 2.1 | | |
| 14/9/2024 | 10:20:10 | 29 | Surface | 1.0 | 28.9 | 32.4 | 32.3 | 7.68 | 7.69 | 7.71 | 119.1 | 119.2 | 1.21 | 1.20 | 1.24 | 4.1 | 3.1 | 2.5 |
| | | | | | | 32.3 | | 7.69 | | | 119.3 | | 1.19 | | | 2.1 | | |
| | | / Rain | Middle | 4.4 | 28.9 | 32.3 | 32.3 | 7.73 | 7.73 | | 120.0 | 120.0 | 1.20 | 1.21 | | 2.2 | 2.5 | |
| | | | | | | 32.4 | | 7.72 | | | 119.9 | | 1.21 | | | 2.8 | | |
| | | / Rain | Bottom | 7.6 | 28.8 | 32.5 | 32.6 | 6.98 | 6.96 | | 108.3 | 108.0 | 1.30 | 1.30 | | 1.9 | 1.9 | |
| | | | | | | 32.6 | | 6.93 | | | 107.6 | | 1.30 | | | 1.8 | | |
| 16/9/2024 | 11:32:03 | 28 | Surface | 1.0 | 28.4 | 33.8 | 33.8 | 5.83 | 5.83 | 5.82 | 90.5 | 90.5 | 1.75 | 1.77 | 2.69 | 4.9 | 5.0 | 3.6 |
| | | | | | | 33.8 | | 5.83 | | | 90.5 | | 1.78 | | | 5.1 | | |
| | | / Cloudy | Middle | 5.4 | 28.4 | 33.9 | 33.9 | 5.81 | 5.81 | | 90.2 | 90.2 | 2.95 | 2.99 | | 3.3 | 3.5 | |
| | | | | | | 33.9 | | 5.80 | | | 90.1 | | 3.02 | | | 3.6 | | |
| | | / Cloudy | Bottom | 9.3 | 28.3 | 33.9 | 33.9 | 5.75 | 5.74 | | 89.2 | 89.1 | 3.32 | 3.33 | | 3.3 | 2.4 | |
| | | | | | | 33.9 | | 5.73 | | | 88.9 | | 3.33 | | | 1.5 | | |
| 19/9/2024 | 12:18:08 | 30 | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 5.78 | 5.80 | 5.73 | 90.2 | 90.5 | 3.09 | 3.11 | 3.08 | 3.4 | 3.1 | 2.8 |
| | | | | | | 33.2 | | 5.81 | | | 90.7 | | 3.12 | | | 2.8 | | |
| | | / Cloudy | Middle | 5.2 | 29.0 | 33.3 | 33.3 | 5.67 | 5.67 | | 88.6 | 88.6 | 3.13 | 3.11 | | 3.0 | 3.2 | |
| | | | | | | 33.3 | | 5.67 | | | 88.6 | | 3.09 | | | 3.3 | | |
| | | / Cloudy | Bottom | 9.1 | 29.0 | 33.4 | 33.4 | 5.14 | 5.16 | | 80.4 | 80.7 | 3.03 | 3.01 | | 1.6 | 2.2 | |
| | | | | | | 33.5 | | 5.18 | | | 81.0 | | 2.99 | | | 2.8 | | |
| 21/9/2024 | 14:11:49 | 27 | Surface | 1.0 | 29.1 | 27.6 | 27.6 | 6.02 | 6.00 | 5.84 | 91.3 | 91.0 | 2.75 | 2.74 | 3.06 | 4.5 | 3.7 | 4.1 |
| | | | | | | 27.6 | | 5.98 | | | 90.7 | | 2.73 | | | 2.9 | | |
| | | / Rain | Middle | 4.6 | 29.1 | 32.7 | 32.7 | 5.69 | 5.68 | | 88.8 | 88.7 | 3.05 | 3.06 | | 4.3 | 3.5 | |
| | | | | | | 32.7 | | 5.67 | | | 88.5 | | 3.07 | | | 2.7 | | |
| | | / Rain | Bottom | 8.3 | 29.0 | 33.5 | 33.5 | 5.45 | 5.44 | | 85.3 | 85.1 | 3.35 | 3.37 | | 4.3 | 5.1 | |
| | | | | | | 33.5 | | 5.42 | | | 84.8 | | 3.39 | | | 5.8 | | |
| 23/9/2024 | 15:43:54 | 26 | Surface | 1.0 | 28.9 | 33.1 | 33.1 | 6.03 | 6.02 | 5.89 | 94.0 | 93.9 | 2.43 | 2.43 | 2.94 | 3.4 | 2.8 | 4.2 |
| | | | | | | 33.1 | | 6.01 | | | 93.7 | | 2.42 | | | 2.1 | | |
| | | / Cloudy | Middle | 4.7 | 28.8 | 33.3 | 33.3 | 5.80 | 5.77 | | 90.4 | 89.9 | 3.09 | 3.08 | | 5.9 | 5.4 | |
| | | | | | | 33.3 | | 5.73 | | | 89.3 | | 3.06 | | | 4.8 | | |
| | | / Cloudy | Bottom | 8.1 | 28.8 | 34.1 | 34.0 | 5.54 | 5.53 | | 86.7 | 86.5 | 3.31 | 3.32 | | 3.2 | 4.5 | |
| | | | | | | 34.0 | | 5.51 | | | 86.2 | | 3.32 | | | 5.8 | | |
| 25/9/2024 | 8:21:12 | 28 | Surface | 1.0 | 28.8 | 32.1 | 32.1 | 6.15 | 6.15 | 6.07 | 95.2 | 95.2 | 1.97 | 1.96 | 2.48 | 2.7 | 3.1 | 3.3 |
| | | | | | | 32.1 | | 6.15 | | | 95.2 | | 1.95 | | | 3.5 | | |
| | | / Cloudy | Middle | 5.2 | 28.8 | 32.4 | 32.5 | 6.02 | 6.00 | | 93.3 | 93.0 | 2.25 | 2.27 | | 4.2 | 3.0 | |
| | | | | | | 32.5 | | 5.97 | | | 92.6 | | 2.28 | | | 1.7 | | |
| | | / Cloudy | Bottom | 9.5 | 28.8 | 33.0 | 33.0 | 5.86 | 5.86 | | 91.1 | 91.1 | 3.21 | 3.22 | | 3.6 | 3.7 | |
| | | | | | | 33.1 | | 5.85 | | | 91.1 | | 3.22 | | | 3.8 | | |
| 27/9/2024 | 10:42:24 | 30 | Surface | 1.0 | 29.1 | 33.0 | 33.0 | 5.89 | 5.88 | 5.80 | 92.0 | 86.9 | 1.94 | 1.94 | 2.29 | 1.7 | 1.6 | 1.8 |
| | | | | | | 33.0 | | 5.87 | | | 81.7 | | 1.94 | | | 1.4 | | |
| | | / Cloudy | Middle | 4.6 | 29.0 | 33.3 | 33.2 | 5.73 | 5.73 | | 89.6 | 89.5 | 2.29 | 2.30 | | 1.0 | 1.4 | |
| | | | | | | 33.1 | | 5.72 | | | 89.3 | | 2.31 | | | 1.7 | | |
| | | / Cloudy | Bottom | 7.9 | 29.0 | 33.6 | 33.6 | 5.36 | 5.37 | | 83.9 | 84.0 | 2.63 | 2.64 | | 3.0 | 2.5 | |
| | | | | | | 33.7 | | 5.37 | | | 84.1 | | 2.65 | | | 2.0 | | |
| 30/9/2024 | 11:25:05 | 30 | Surface | 1.0 | 29.1 | 33.9 | 33.9 | 6.50 | 6.51 | 6.29 | 102.1 | 102.2 | 1.61 | 1.62 | 2.55 | 3.2 | 2.8 | 2.5 |
| | | | | | | 33.9 | | 6.51 | | | 102.2 | | 1.62 | | | 2.4 | | |
| | | / Cloudy | Middle | 4.0 | 29.1 | 34.1 | 34.2 | 6.09 | 6.08 | | 95.7 | 95.5 | 2.95 | 2.96 | | 3.1 | 2.6 | |
| | | | | | | 34.2 | | 6.06 | | | 95.2 | | 2.97 | | | 2.0 | | |
| | | / Cloudy | Bottom | 6.7 | 29.0 | 34.3 | 34.3 | 5.94 | 5.93 | | 93.4 | 93.2 | 3.08 | 3.09 | | 2.5 | 2.2 | |
| | | | | | | 34.3 | | 5.91 | | | 92.9 | | 3.09 | | | 1.9 | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

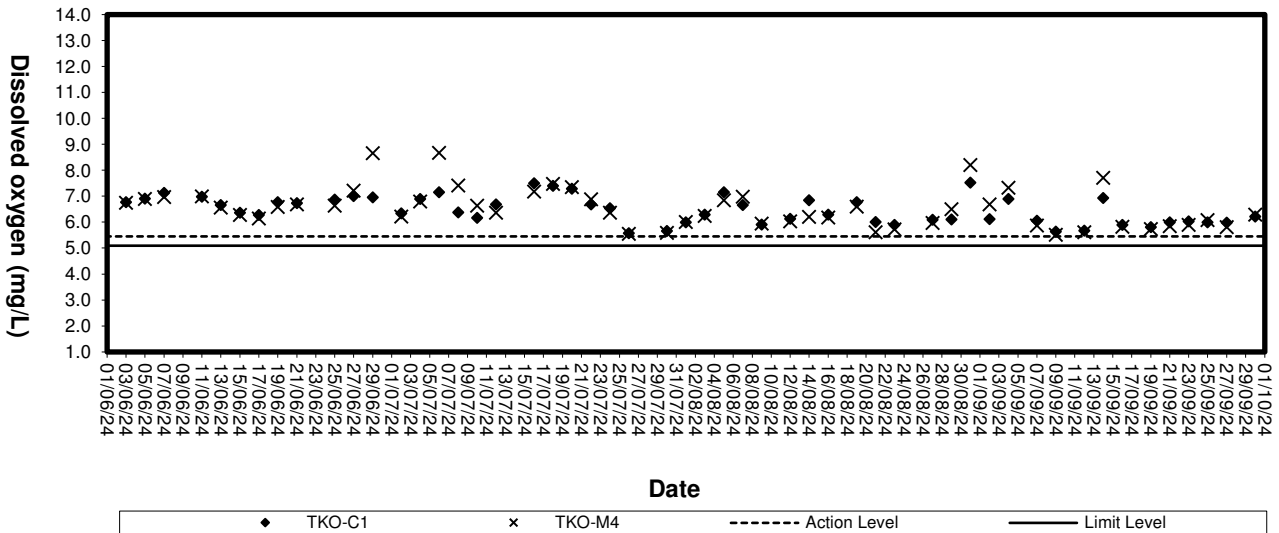
Appendix D3

Graphical Plots of Impact Marine Water Quality Monitoring Data

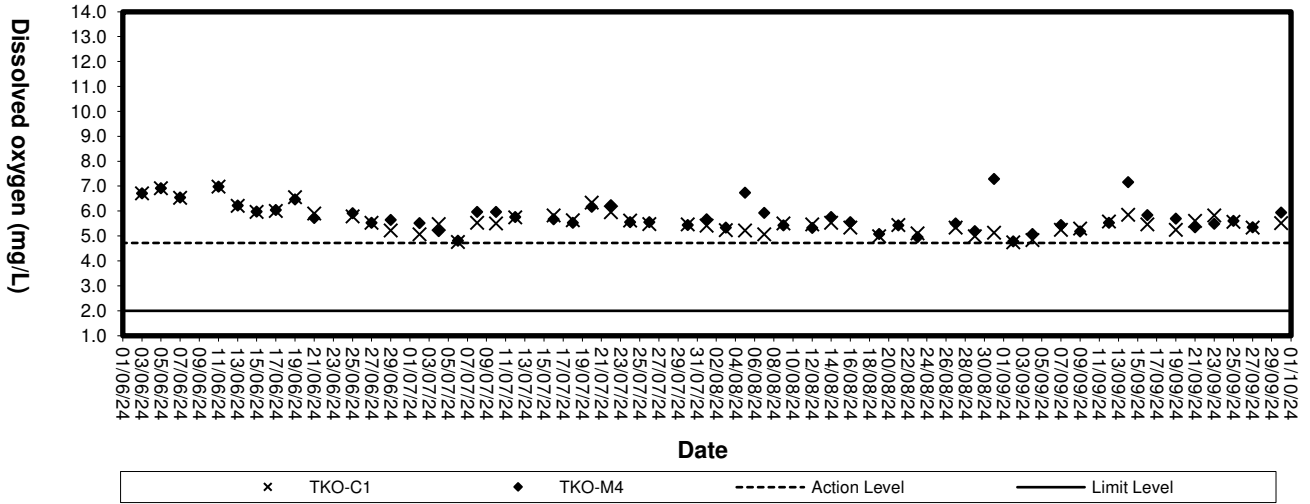
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



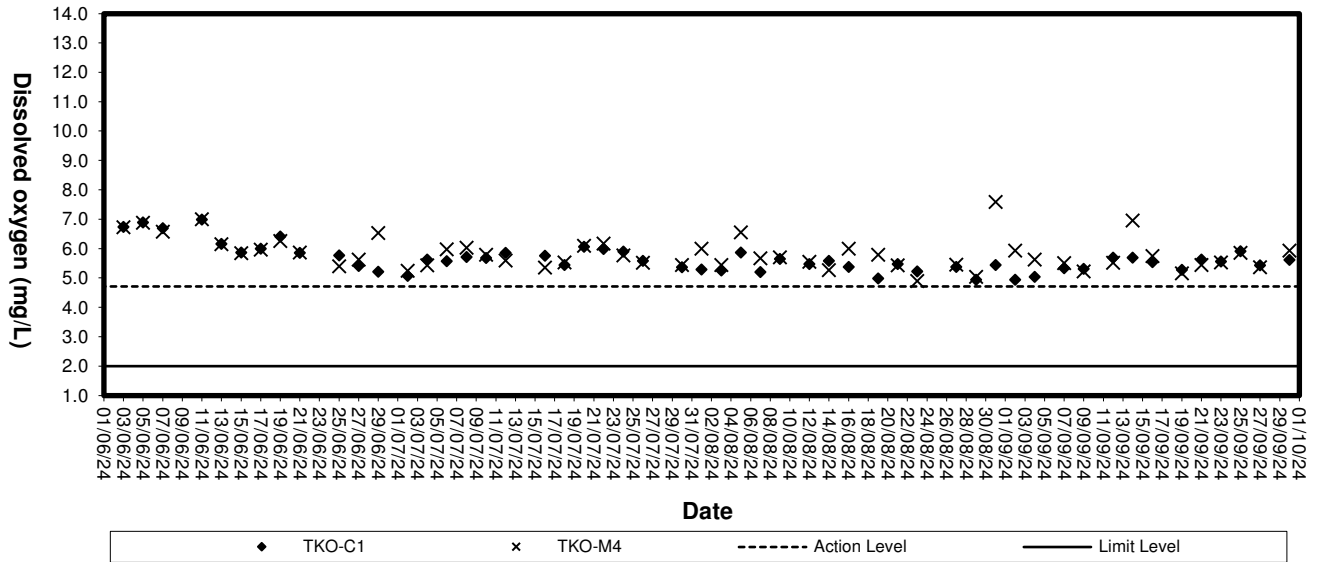
Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



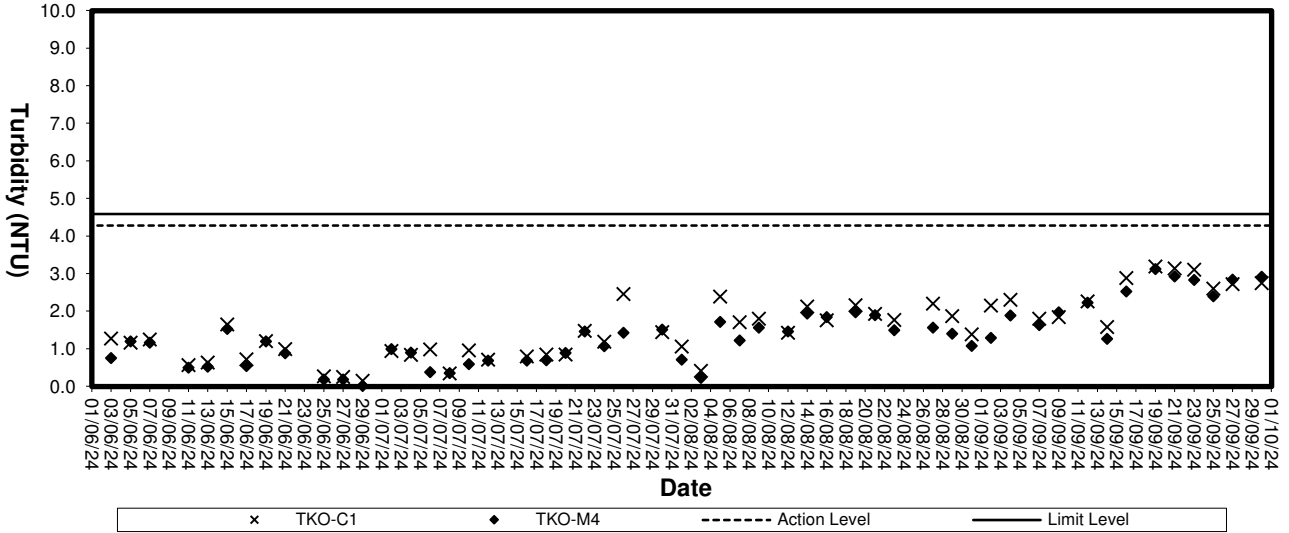
Dissolved Oxygen (Bottom) at Mid-Flood Tide



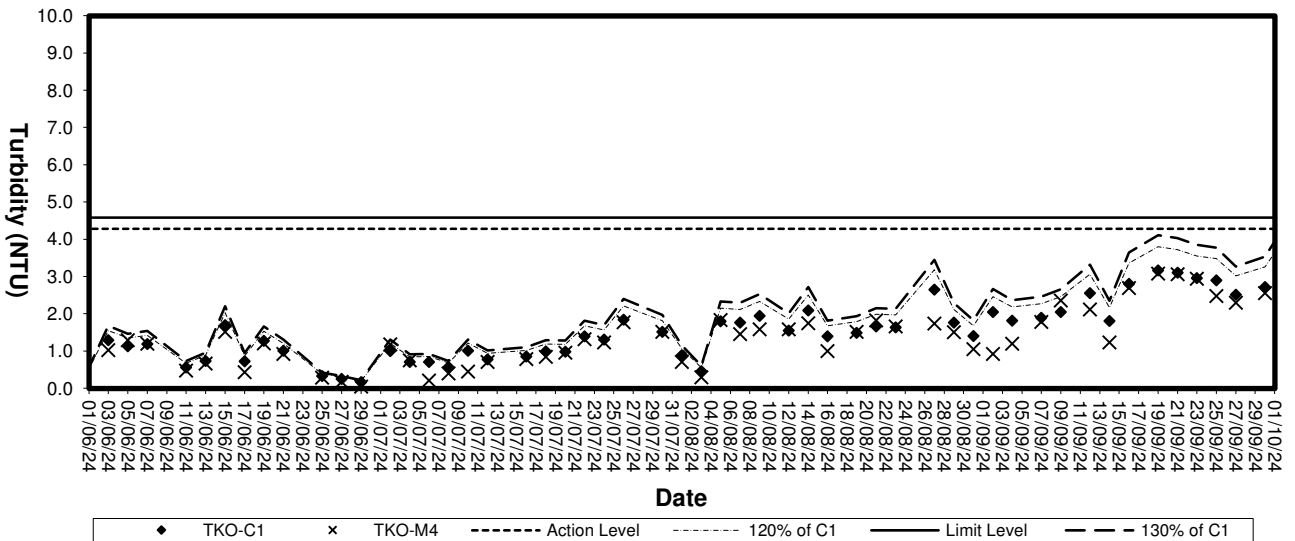
Dissolved Oxygen (Bottom) at Mid-Ebb Tide



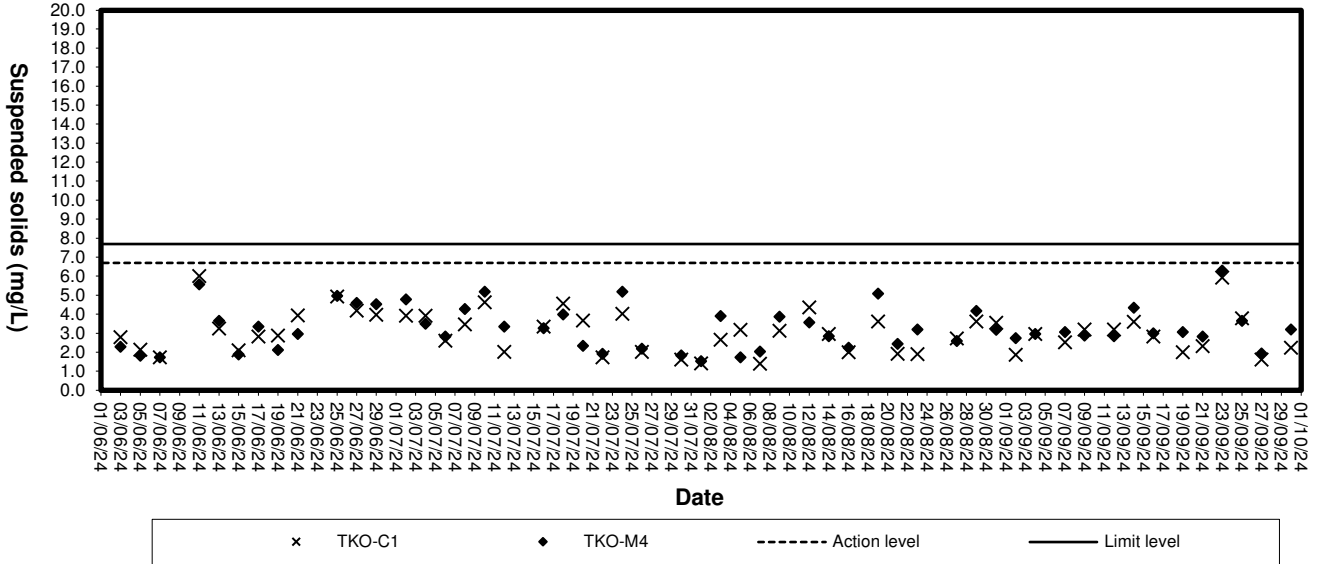
Turbidity (Depth-average) at Mid-Flood Tide



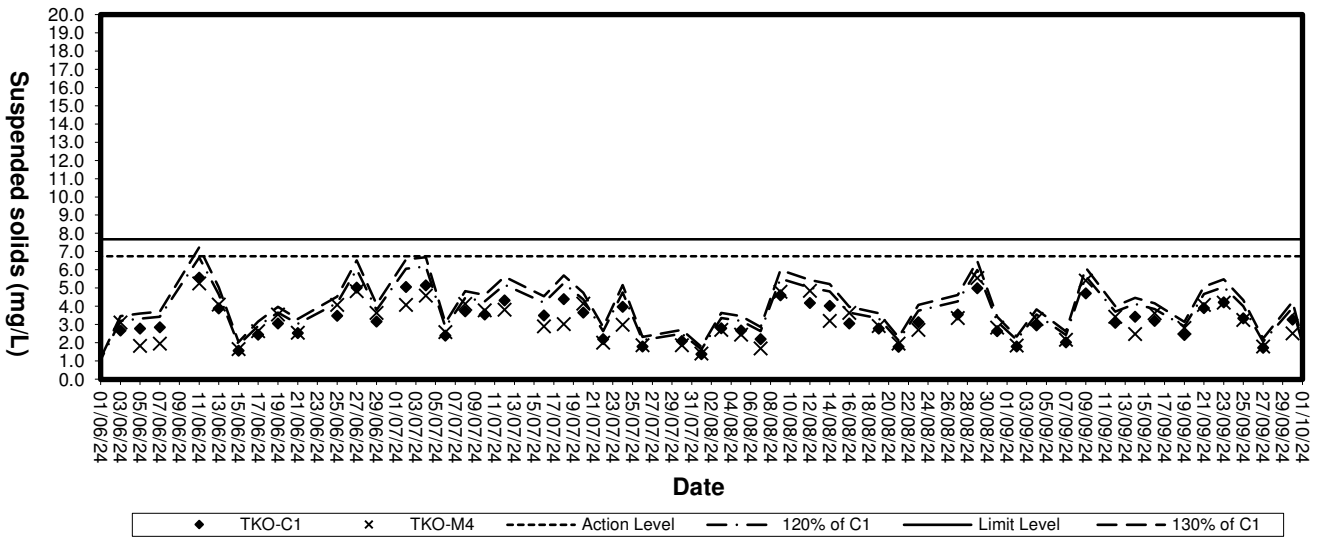
Turbidity (Depth-average) at Mid-Ebb Tide



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



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



Appendix D4

Impact Marine Water Quality Monitoring Results (3RS Project)

Mid-Flood Tide



Monitoring Station : TKO-C1a

| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|----------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Depth-average | Value | Average | Depth-average |
| 2/9/2024 | 16:55:42 | 30 | Surface | 1.0 | 27.1 | 32.9 | 32.9 | 6.75 | 6.76 | 6.36 | 102.1 | 102.1 | 0.68 | 0.69 | 1.84 | 2.7 | 2.8 | 2.1 |
| | | | | 10.7 | 24.2 | 35.0 | | 6.05 | | | 88.1 | | 1.49 | | | 1.9 | | |
| | | | / Cloudy | Middle | 10.7 | 24.2 | 35.1 | 5.86 | 85.4 | | 1.70 | 1.60 | 1.60 | 2.7 | | 2.3 | | |
| | | Bottom | | | 20.2 | 23.9 | 35.5 | 5.47 | 79.5 | 3.22 | 3.23 | 1.4 | 1.2 | | | | | |
| | | | | / Cloudy | Middle | 10.7 | 24.2 | 35.5 | 5.44 | 78.9 | 3.23 | 3.23 | 1.0 | 1.2 | | | | |
| | | Bottom | 20.2 | | | 23.9 | 35.5 | 5.44 | 78.9 | 3.23 | 3.23 | 1.0 | 1.2 | | | | | |
| 4/9/2024 | 17:55:37 | | 30 | | Surface | 1.0 | 28.0 | 33.0 | 33.0 | 7.86 | 7.87 | 7.23 | 120.7 | 120.9 | 0.58 | 0.57 | 2.20 | 4.1 |
| | | 10.5 | | 24.5 | | 35.1 | 6.64 | 97.3 | | 2.44 | | | 4.3 | | | | | |
| | | / Cloudy | | Middle | 10.5 | 24.5 | 35.1 | 6.55 | 96.0 | 2.58 | 2.51 | | 3.9 | 4.1 | | | | |
| | | | Bottom | | 19.2 | 23.7 | 35.7 | 5.34 | 77.4 | 3.44 | 3.50 | 4.6 | 4.9 | | | | | |
| | | | | / Cloudy | Middle | 10.5 | 24.5 | 35.7 | 5.28 | 76.6 | 3.56 | 3.50 | 5.1 | 4.9 | | | | |
| | | Bottom | 19.2 | | | 23.7 | 35.7 | 5.28 | 76.6 | 3.56 | 3.50 | 5.1 | 4.9 | | | | | |
| 7/9/2024 | 8:45:47 | | 29 | | Surface | 1.0 | 27.6 | 25.2 | 25.2 | 6.18 | 6.17 | 5.90 | 90.2 | 90.0 | 1.34 | 1.35 | 1.85 | 3.4 |
| | | 10.6 | | 24.3 | | 31.6 | 5.64 | 89.8 | | 1.35 | | | 1.9 | | | | | |
| | | / Rain | | Middle | 10.6 | 24.3 | 31.6 | 5.62 | 80.4 | 1.92 | 1.91 | | 3.8 | 2.8 | | | | |
| | | | Bottom | | 20.2 | 23.8 | 32.4 | 5.39 | 76.8 | 2.30 | 2.31 | 1.7 | 1.8 | | | | | |
| | | | | / Rain | Middle | 10.6 | 24.3 | 32.5 | 5.36 | 76.3 | 2.32 | 2.31 | 1.9 | 1.8 | | | | |
| | | Bottom | 20.2 | | | 23.8 | 32.5 | 5.36 | 76.3 | 2.32 | 2.31 | 1.9 | 1.8 | | | | | |
| 9/9/2024 | 9:39:05 | | 26 | | Surface | 1.0 | 27.9 | 32.7 | 32.7 | 5.67 | 5.68 | 5.63 | 86.8 | 86.9 | 1.42 | 1.42 | 1.90 | 3.6 |
| | | 10.2 | | 27.9 | | 32.9 | 5.58 | 85.4 | | 2.03 | | | 4.4 | | | | | |
| | | / Cloudy | | Middle | 10.2 | 27.9 | 32.9 | 5.57 | 85.3 | 2.14 | 2.09 | | 4.3 | 4.1 | | | | |
| | | | Bottom | | 18.9 | 28.0 | 33.2 | 5.29 | 81.3 | 2.24 | 2.20 | 4.6 | 4.0 | | | | | |
| | | | | / Cloudy | Middle | 10.2 | 27.9 | 33.3 | 5.31 | 81.6 | 2.16 | 2.20 | 3.4 | 4.0 | | | | |
| | | Bottom | 18.9 | | | 28.0 | 33.3 | 5.31 | 81.6 | 2.16 | 2.20 | 3.4 | 4.0 | | | | | |
| 12/9/2024 | 15:34:19 | | 30 | | Surface | 1.0 | 28.4 | 32.1 | 32.1 | 5.67 | 5.67 | 5.65 | 87.2 | 87.2 | 1.89 | 1.91 | 2.26 | 3.7 |
| | | 10.4 | | 28.4 | | 32.5 | 5.64 | 86.9 | | 2.23 | | | 4.3 | | | | | |
| | | / Fine | | Middle | 10.4 | 28.4 | 32.6 | 5.62 | 86.6 | 2.26 | 2.25 | | 4.7 | 4.5 | | | | |
| | | | Bottom | | 19.6 | 28.4 | 33.0 | 5.56 | 85.9 | 2.61 | 2.62 | 3.0 | 3.0 | | | | | |
| | | | | / Fine | Middle | 10.4 | 28.4 | 33.0 | 5.56 | 85.9 | 2.62 | 2.62 | 2.9 | 3.0 | | | | |
| | | Bottom | 19.6 | | | 28.4 | 33.0 | 5.56 | 85.9 | 2.62 | 2.62 | 2.9 | 3.0 | | | | | |
| 14/9/2024 | 16:17:11 | | 29 | | Surface | 1.0 | 28.8 | 32.6 | 32.6 | 7.06 | 7.13 | 6.61 | 109.6 | 110.7 | 1.36 | 1.35 | 1.56 | 2.3 |
| | | 10.6 | | 28.7 | | 33.1 | 6.03 | 111.7 | | 1.34 | | | 2.5 | | | | | |
| | | / Rain | | Middle | 10.6 | 28.7 | 33.0 | 6.16 | 93.7 | 1.46 | 1.43 | | 3.1 | 3.1 | | | | |
| | | | Bottom | | 20.7 | 28.6 | 33.4 | 5.90 | 91.8 | 1.90 | 1.90 | 2.8 | 2.9 | | | | | |
| | | | | / Rain | Middle | 10.6 | 28.7 | 33.4 | 5.92 | 91.9 | 1.90 | 1.90 | 2.9 | 2.9 | | | | |
| | | Bottom | 20.7 | | | 28.6 | 33.4 | 5.92 | 91.9 | 1.90 | 1.90 | 2.9 | 2.9 | | | | | |
| 16/9/2024 | 16:25:01 | | 28 | | Surface | 1.0 | 28.4 | 33.8 | 33.8 | 6.00 | 6.00 | 5.88 | 93.1 | 93.1 | 2.28 | 2.26 | 2.76 | 3.7 |
| | | 10.6 | | 28.2 | | 34.1 | 5.78 | 89.6 | | 2.94 | | | 4.9 | | | | | |
| | | / Cloudy | | Middle | 10.6 | 28.2 | 34.1 | 5.74 | 88.8 | 2.97 | 2.96 | | 4.2 | 3.4 | | | | |
| | | | Bottom | | 20.5 | 28.1 | 34.2 | 5.62 | 87.0 | 3.06 | 3.06 | 3.7 | 3.3 | | | | | |
| | | | | / Cloudy | Middle | 10.6 | 28.2 | 34.2 | 5.60 | 86.7 | 3.06 | 3.06 | 2.8 | 3.3 | | | | |
| | | Bottom | 20.5 | | | 28.1 | 34.2 | 5.60 | 86.7 | 3.06 | 3.06 | 2.8 | 3.3 | | | | | |
| 19/9/2024 | 17:29:16 | | 30 | | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 5.81 | 5.81 | 5.83 | 90.7 | 90.7 | 3.04 | 3.01 | 3.11 | 4.1 |
| | | 10.3 | | 29.0 | | 33.3 | 5.84 | 91.3 | | 3.07 | | | 3.1 | | | | | |
| | | / Cloudy | | Middle | 10.3 | 29.0 | 33.4 | 5.88 | 91.9 | 3.07 | 3.07 | | 3.6 | 3.4 | | | | |
| | | | Bottom | | 19.2 | 29.0 | 33.6 | 5.32 | 83.2 | 3.24 | 3.25 | 3.5 | 3.7 | | | | | |
| | | | | / Cloudy | Middle | 10.3 | 29.0 | 33.6 | 5.33 | 83.4 | 3.25 | 3.25 | 3.8 | 3.7 | | | | |
| | | Bottom | 19.2 | | | 29.0 | 33.6 | 5.33 | 83.4 | 3.25 | 3.25 | 3.8 | 3.7 | | | | | |
| 21/9/2024 | 7:18:19 | | 27 | | Surface | 1.0 | 29.0 | 28.3 | 28.3 | 6.07 | 6.05 | 5.94 | 92.3 | 92.0 | 2.75 | 2.76 | 3.07 | 3.5 |
| | | 11.0 | | 29.0 | | 32.3 | 5.84 | 91.7 | | 2.77 | | | 2.7 | | | | | |
| | | / Rain | | Middle | 11.0 | 29.0 | 32.4 | 5.81 | 90.8 | 3.11 | 3.12 | | 5.1 | 4.5 | | | | |
| | | | Bottom | | 21.0 | 28.9 | 33.1 | 5.51 | 90.3 | 3.13 | 3.12 | 3.8 | 4.5 | | | | | |
| | | | | / Rain | Middle | 11.0 | 29.0 | 33.1 | 5.51 | 85.9 | 3.32 | 3.34 | 3.1 | 3.8 | | | | |
| | | Bottom | 21.0 | | | 28.9 | 33.1 | 5.50 | 85.7 | 3.36 | 3.34 | 4.4 | 3.8 | | | | | |
| 23/9/2024 | 9:20:42 | | 26 | | Surface | 1.0 | 28.9 | 33.2 | 33.1 | 5.92 | 5.92 | 5.83 | 92.3 | 92.3 | 2.70 | 2.69 | 2.95 | 2.9 |
| | | 11.3 | | 28.8 | | 33.3 | 5.75 | 92.3 | | 2.67 | | | 4.4 | | | | | |
| | | / Cloudy | | Middle | 11.3 | 28.8 | 33.4 | 5.73 | 89.6 | 2.99 | 3.00 | | 5.9 | 4.7 | | | | |
| | | | Bottom | | 21.2 | 28.6 | 34.0 | 5.65 | 89.3 | 3.01 | 3.00 | 3.4 | 4.7 | | | | | |
| | | | | / Cloudy | Middle | 11.3 | 28.8 | 33.9 | 5.63 | 88.1 | 3.14 | 3.15 | 4.6 | 4.2 | | | | |
| | | Bottom | 21.2 | | | 28.6 | 33.9 | 5.63 | 87.7 | 3.16 | 3.15 | 3.7 | 4.2 | | | | | |
| 25/9/2024 | 14:31:07 | | 28 | | Surface | 1.0 | 28.8 | 32.2 | 32.1 | 5.90 | 5.90 | 5.84 | 91.3 | 91.3 | 1.90 | 1.93 | 2.46 | 2.9 |
| | | 10.5 | | 28.8 | | 32.3 | 5.80 | 91.2 | | 1.95 | | | 3.9 | | | | | |
| | | / Cloudy | | Middle | 10.5 | 28.8 | 32.5 | 5.75 | 89.9 | 2.18 | 2.19 | | 1.8 | 2.1 | | | | |
| | | | Bottom | | 19.9 | 28.8 | 33.2 | 5.56 | 89.2 | 2.20 | 2.19 | 2.3 | 2.1 | | | | | |
| | | | | / Cloudy | Middle | 10.5 | 28.8 | 33.2 | 5.54 | 86.6 | 3.27 | 3.26 | 2.9 | 2.8 | | | | |
| | | Bottom | 19.9 | | | 28.8 | 33.2 | 5.54 | 86.3 | 3.25 | 3.26 | 2.6 | 2.8 | | | | | |
| 27/9/2024 | 15:28:14 | | 30 | | Surface | 1.0 | 29.0 | 33.6 | 33.5 | 5.90 | 5.90 | 5.85 | 92.4 | 92.3 | 2.33 | 2.32 | 2.70 | 1.6 |
| | | 10.0 | | 28.9 | | 34.4 | 5.79 | 92.2 | | 2.31 | | | 3.5 | | | | | |
| | | / Cloudy | | Middle | 10.0 | 28.9 | 34.3 | 5.80 | 90.9 | 2.66 | 2.66 | | 1.7 | 2.2 | | | | |
| | | | Bottom | | 18.8 | 28.8 | 34.6 | 5.67 | 91.0 | 2.65 | 2.66 | 2.6 | 2.2 | | | | | |
| | | | | / Cloudy | Middle | 10.0 | 28.9 | 34.6 | 5.67 | 89.0 | 3.11 | 3.12 | 1.7 | 1.4 | | | | |
| | | Bottom | 18.8 | | | 28.8 | 34.6 | 5.65 | 88.6 | 3.12 | 3.12 | 1.0 | 1.4 | | | | | |
| 30/9/2024 | 16:39:04 | | 30 | | Surface | 1.0 | 29.0 | 34.0 | 33.9 | 6.28 | 6.30 | 6.07 | 98.6 | 98.9 | 2.17 | 2.18 | 2.66 | 3.7 |
| | | 10.5 | | 29.0 | | 34.3 | 5.82 | 99.2 | | 2.18 | | | 4.4 | | | | | |
| | | / Cloudy | | Middle | 10.5 | 29.0 | 34.3 | 5.84 | 91.5 | 2.73 | 2.74 | | 4.5 | 3.4 | | | | |
| | | | Bottom | | 19.9 | 28.9 | 34.5 | 5.49 | 91.7 | 2.75 | 2.74 | 2.2 | 3.4 | | | | | |
| | | | | / Cloudy | Middle | 10.5 | 29.0 | 34.5 | 5.49 | 86.2 | 3.06 | 3.08 | 3.9 | 3.3 | | | | |
| | | Bottom | 19.9 | | | 28.9 | 34.5 | 5.49 | 86.2 | 3.09 | 3.08 | 2.6 | 3.3 | | | | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

Mid-Flood Tide

Monitoring Station : TKO-M4a

| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Depth-average | Value | Average | Depth-average |
| 2/9/2024 | 17:11:35 | 30 | Surface | 1.0 | 26.9 | 32.9 | 32.9 | 6.59 | 6.59 | 6.18 | 99.2 | 99.1 | 0.76 | 0.76 | 1.84 | 1.0 | 1.6 | 2.2 |
| | | | | | | 32.9 | | 6.58 | | | 99.0 | | 0.75 | | | 2.1 | | |
| | | | Middle | 10.6 | 24.2 | 35.1 | 35.1 | 5.84 | 5.77 | 85.1 | 84.0 | 1.57 | 1.66 | 2.9 | | | | |
| | | / Cloudy | Bottom | 19.7 | 23.8 | 35.5 | 35.5 | 5.34 | 5.33 | 77.5 | 77.4 | 3.02 | 3.09 | 2.7 | | | | |
| | | | | | | 35.6 | | 5.32 | | 77.2 | | 3.16 | | 2.4 | | | | |
| | | | | | | 35.7 | | 5.31 | | 76.9 | | 3.37 | | 4.1 | | | | |
| 4/9/2024 | 18:11:53 | 30 | Surface | 1.0 | 27.9 | 32.7 | 32.8 | 6.80 | 6.86 | 6.31 | 104.1 | 105.1 | 1.24 | 1.23 | 2.25 | 4.8 | 4.8 | 4.3 |
| | | | | | | 32.9 | | 6.91 | | | 106.0 | | 1.21 | | | 4.8 | | |
| | | | Middle | 9.6 | 24.1 | 35.3 | 35.3 | 5.79 | 5.76 | 84.3 | 84.0 | 2.13 | 2.10 | 4.3 | | | | |
| | | / Cloudy | Bottom | 18.1 | 23.6 | 35.2 | 35.7 | 5.72 | 5.31 | 83.6 | 76.9 | 2.06 | 3.42 | 3.1 | | | | |
| | | | | | | 35.7 | | 5.31 | | 76.9 | | 3.47 | | 4.4 | | | | |
| | | | | | | 35.7 | | 5.31 | | 76.9 | | 3.47 | | 4.1 | | | | |
| 7/9/2024 | 8:57:44 | 29 | Surface | 1.0 | 27.8 | 25.6 | 25.6 | 6.02 | 6.01 | 5.94 | 88.4 | 88.2 | 1.36 | 1.36 | 1.89 | 3.8 | 3.2 | 3.0 |
| | | | | | | 25.6 | | 6.00 | | | 88.0 | | 1.35 | | | 2.6 | | |
| | | | Middle | 9.7 | 24.2 | 31.7 | 31.7 | 5.87 | 5.86 | 83.9 | 83.9 | 1.94 | 1.96 | 2.1 | | | | |
| | | / Rain | Bottom | 18.4 | 23.7 | 31.7 | 32.6 | 5.85 | 5.54 | 83.8 | 78.8 | 1.97 | 2.37 | 3.4 | | | | |
| | | | | | | 32.5 | | 5.54 | | 78.9 | | 2.35 | | 2.9 | | | | |
| | | | | | | 32.6 | | 5.53 | | 78.7 | | 2.38 | | 3.2 | | | | |
| 9/9/2024 | 9:56:06 | 26 | Surface | 1.0 | 27.9 | 32.6 | 32.6 | 5.80 | 5.80 | 5.67 | 88.7 | 88.7 | 1.62 | 1.63 | 2.03 | 3.2 | 2.8 | 3.2 |
| | | | | | | 32.6 | | 5.80 | | | 88.7 | | 1.63 | | | 2.4 | | |
| | | | Middle | 8.9 | 27.9 | 33.0 | 33.0 | 5.55 | 5.54 | 85.1 | 84.9 | 2.20 | 2.23 | 3.1 | | | | |
| | | / Cloudy | Bottom | 15.7 | 28.0 | 33.0 | 33.2 | 5.52 | 5.25 | 84.6 | 80.7 | 2.25 | 2.23 | 3.7 | | | | |
| | | | | | | 33.2 | | 5.24 | | 80.5 | | 2.24 | | 3.8 | | | | |
| | | | | | | 33.2 | | 5.26 | | 80.8 | | 2.21 | | 3.0 | | | | |
| 12/9/2024 | 15:49:06 | 30 | Surface | 1.0 | 28.4 | 32.4 | 32.4 | 5.59 | 5.59 | 5.58 | 86.1 | 86.1 | 2.31 | 2.30 | 2.41 | 4.2 | 3.3 | 3.5 |
| | | | | | | 32.4 | | 5.59 | | | 86.1 | | 2.28 | | | 2.4 | | |
| | | | Middle | 8.2 | 28.4 | 32.5 | 32.5 | 5.57 | 5.56 | 85.8 | 85.7 | 2.37 | 2.37 | 2.7 | | | | |
| | | / Fine | Bottom | 15.1 | 28.4 | 32.5 | 32.8 | 5.55 | 5.58 | 85.5 | 86.2 | 2.36 | 2.58 | 4.3 | | | | |
| | | | | | | 32.8 | | 5.57 | | 86.0 | | 2.56 | | 3.7 | | | | |
| | | | | | | 32.8 | | 5.59 | | 86.3 | | 2.60 | | 4.4 | | | | |
| 14/9/2024 | 16:33:29 | 29 | Surface | 1.0 | 28.9 | 32.4 | 32.4 | 7.63 | 7.64 | 7.27 | 118.4 | 118.5 | 1.25 | 1.26 | 1.45 | 2.4 | 2.9 | 3.1 |
| | | | | | | 32.4 | | 7.64 | | | 118.5 | | 1.26 | | | 3.3 | | |
| | | | Middle | 10.9 | 28.8 | 32.6 | 32.7 | 6.93 | 6.90 | 107.6 | 107.2 | 1.35 | 1.36 | 2.4 | | | | |
| | | / Rain | Bottom | 20.0 | 28.7 | 32.8 | 33.2 | 6.87 | 6.23 | 106.8 | 96.7 | 1.37 | 1.75 | 2.7 | | | | |
| | | | | | | 33.2 | | 6.26 | | 97.3 | | 1.75 | | 3.8 | | | | |
| | | | | | | 33.3 | | 6.19 | | 96.1 | | 1.74 | | 4.0 | | | | |
| 16/9/2024 | 16:47:07 | 28 | Surface | 1.0 | 28.3 | 34.0 | 33.9 | 5.73 | 5.75 | 5.69 | 88.9 | 89.2 | 2.42 | 2.40 | 2.69 | 3.9 | 4.3 | 3.6 |
| | | | | | | 33.9 | | 5.77 | | | 89.5 | | 2.37 | | | 4.7 | | |
| | | | Middle | 9.2 | 28.1 | 34.1 | 34.1 | 5.63 | 5.63 | 87.1 | 87.1 | 2.97 | 2.99 | 2.4 | | | | |
| | | / Cloudy | Bottom | 17.8 | 28.1 | 34.1 | 34.1 | 5.63 | 5.58 | 87.1 | 86.3 | 3.01 | 2.67 | 4.5 | | | | |
| | | | | | | 34.1 | | 5.57 | | 86.2 | | 2.67 | | 4.0 | | | | |
| | | | | | | 34.1 | | 5.58 | | 86.3 | | 2.68 | | 3.0 | | | | |
| 19/9/2024 | 17:42:06 | 30 | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 5.81 | 5.81 | 5.77 | 90.8 | 90.8 | 3.03 | 3.04 | 3.21 | 2.4 | 2.4 | 3.5 |
| | | | | | | 33.2 | | 5.81 | | | 90.8 | | 3.05 | | | 2.4 | | |
| | | | Middle | 7.9 | 29.0 | 33.4 | 33.4 | 5.72 | 5.73 | 89.4 | 89.6 | 3.27 | 3.26 | 3.8 | | | | |
| | | / Cloudy | Bottom | 14.2 | 29.0 | 33.4 | 33.5 | 5.74 | 5.26 | 89.8 | 82.3 | 3.24 | 3.33 | 3.5 | | | | |
| | | | | | | 33.5 | | 5.25 | | 82.2 | | 3.31 | | 4.9 | | | | |
| | | | | | | 33.5 | | 5.26 | | 82.3 | | 3.34 | | 4.1 | | | | |
| 21/9/2024 | 7:34:08 | 27 | Surface | 1.0 | 29.0 | 28.5 | 28.6 | 5.85 | 5.85 | 5.75 | 89.1 | 89.0 | 2.70 | 2.70 | 3.01 | 3.1 | 3.1 | 4.1 |
| | | | | | | 28.6 | | 5.84 | | | 88.9 | | 2.69 | | | 3.0 | | |
| | | | Middle | 9.9 | 29.0 | 32.8 | 32.8 | 5.67 | 5.65 | 88.4 | 88.0 | 3.03 | 3.05 | 4.4 | | | | |
| | | / Rain | Bottom | 18.5 | 28.9 | 32.9 | 33.5 | 5.62 | 5.24 | 87.6 | 81.9 | 3.06 | 3.30 | 5.1 | | | | |
| | | | | | | 33.4 | | 5.25 | | 82.0 | | 3.28 | | 5.1 | | | | |
| | | | | | | 33.7 | | 5.23 | | 81.8 | | 3.31 | | 3.6 | | | | |
| 23/9/2024 | 9:38:38 | 26 | Surface | 1.0 | 28.9 | 33.0 | 33.0 | 5.90 | 5.91 | 5.81 | 91.9 | 92.0 | 2.42 | 2.44 | 2.79 | 4.4 | 4.2 | 4.5 |
| | | | | | | 33.0 | | 5.91 | | | 92.1 | | 2.45 | | | 3.9 | | |
| | | | Middle | 10.2 | 28.8 | 33.6 | 33.6 | 5.69 | 5.71 | 88.8 | 89.2 | 2.87 | 2.88 | 3.3 | | | | |
| | | / Cloudy | Bottom | 19.2 | 28.8 | 33.7 | 34.0 | 5.73 | 5.48 | 89.5 | 85.7 | 2.89 | 3.05 | 5.1 | | | | |
| | | | | | | 34.0 | | 5.47 | | 85.6 | | 3.06 | | 4.4 | | | | |
| | | | | | | 34.0 | | 5.48 | | 85.7 | | 3.03 | | 5.9 | | | | |
| 25/9/2024 | 14:44:07 | 28 | Surface | 1.0 | 28.8 | 32.1 | 32.1 | 5.80 | 5.80 | 5.78 | 89.8 | 89.8 | 1.93 | 1.95 | 2.34 | 3.4 | 2.9 | 2.4 |
| | | | | | | 32.1 | | 5.80 | | | 89.8 | | 1.96 | | | 2.3 | | |
| | | | Middle | 9.2 | 28.8 | 32.2 | 32.3 | 5.76 | 5.75 | 89.2 | 89.1 | 2.13 | 2.15 | 1.7 | | | | |
| | | / Cloudy | Bottom | 17.3 | 28.8 | 32.3 | 33.1 | 5.74 | 5.58 | 88.9 | 86.9 | 2.16 | 2.92 | 2.8 | | | | |
| | | | | | | 33.1 | | 5.59 | | 87.0 | | 2.90 | | 1.8 | | | | |
| | | | | | | 33.2 | | 5.57 | | 86.7 | | 2.93 | | 2.1 | | | | |
| 27/9/2024 | 15:49:19 | 30 | Surface | 1.0 | 29.1 | 33.2 | 33.2 | 5.89 | 5.90 | 5.83 | 92.2 | 92.3 | 2.40 | 2.35 | 2.92 | 1.5 | 1.7 | 2.4 |
| | | | | | | 33.1 | | 5.90 | | | 92.3 | | 2.30 | | | 1.8 | | |
| | | | Middle | 9.5 | 29.0 | 33.6 | 33.7 | 5.77 | 5.76 | 90.3 | 90.2 | 2.92 | 2.94 | 2.4 | | | | |
| | | / Cloudy | Bottom | 17.6 | 28.8 | 33.9 | 34.6 | 5.74 | 5.63 | 90.0 | 88.4 | 2.95 | 3.47 | 1.9 | | | | |
| | | | | | | 34.6 | | 5.62 | | 88.2 | | 3.46 | | 3.2 | | | | |
| | | | | | | 34.6 | | 5.64 | | 88.5 | | 3.48 | | 3.3 | | | | |
| 30/9/2024 | 17:14:05 | 30 | Surface | 1.0 | 29.1 | 33.8 | 33.8 | 6.34 | 6.35 | 6.18 | 99.5 | 99.6 | 2.09 | 2.09 | 2.57 | 4.0 | 3.2 | 3.6 |
| | | | | | | 33.8 | | 6.36 | | | 99.7 | | 2.09 | | | 2.3 | | |
| | | | Middle | 9.2 | 29.0 | 34.2 | 34.2 | 6.02 | 6.01 | 94.5 | 94.4 | 2.57 | 2.58 | 3.7 | | | | |
| | | / Cloudy | Bottom | 17.4 | 28.9 | 34.2 | 34.5 | 6.00 | 5.58 | 94.3 | 87.7 | 2.59 | 3.05 | 4.3 | | | | |
| | | | | | | 34.5 | | 5.59 | | 87.8 | | 3.04 | | 2.9 | | | | |
| | | | | | | 34.5 | | 5.57 | | 87.5 | | 3.06 | | 4.5 | | | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

Mid-Flood Tide

Monitoring Station : TKO-M5

| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Depth-average | Value | Average | Depth-average |
| 2/9/2024 | 17:27:13 | 30 | Surface | 1.0 | 26.9 | 32.9 | 32.8 | 5.97 | 6.00 | 5.66 | 89.9 | 90.4 | 1.12 | 1.02 | 2.13 | 2.8 | 3.3 | 2.4 |
| | | | | | | 32.8 | | 6.03 | | | 90.8 | | 0.92 | | | 3.7 | | |
| | | | 35.4 | 5.30 | 77.1 | 2.43 | 1.5 | | | | | | | | | | | |
| | | / Cloudy | Middle | 8.3 | 24.0 | 35.4 | 35.4 | 5.34 | 5.32 | 5.24 | 77.7 | 77.4 | 2.42 | 2.43 | | 1.5 | | |
| | | | | | | 35.5 | | 5.23 | | | 75.9 | | 3.03 | | | 2.8 | | |
| | | | Bottom | 14.9 | 23.8 | 35.5 | 35.5 | 5.24 | 5.24 | 76.0 | 76.0 | 2.84 | 2.94 | 1.8 | | 2.3 | | |
| 35.5 | 5.24 | 76.0 | 2.84 | 1.8 | | | | | | | | | | | | | | |
| 4/9/2024 | 18:26:49 | 30 | Surface | 1.0 | 28.0 | 33.0 | 33.0 | 7.93 | 7.94 | 7.05 | 121.7 | 121.8 | 0.66 | 0.66 | 2.20 | 4.6 | 4.5 | 4.5 |
| | | | | | | 33.0 | | 7.94 | | | 121.9 | | 0.65 | | | 4.4 | | |
| | | | 35.0 | 6.15 | 90.2 | 2.50 | 4.2 | | | | | | | | | | | |
| | | / Cloudy | Middle | 8.4 | 24.6 | 34.9 | 34.9 | 6.18 | 6.17 | 5.57 | 90.7 | 90.5 | 2.48 | 2.49 | | 5.4 | 4.8 | |
| | | | | | | 35.4 | | 5.58 | | | 81.2 | | 3.40 | | | 4.9 | | |
| | | | Bottom | 15.3 | 24.0 | 35.5 | 35.5 | 5.56 | 5.57 | 80.8 | 81.0 | 3.48 | 3.44 | 3.5 | | 4.2 | | |
| 35.5 | 5.56 | 80.8 | 3.48 | 3.5 | | | | | | | | | | | | | | |
| 7/9/2024 | 09:16:17 | 29 | Surface | 1.0 | 27.7 | 25.7 | 25.8 | 6.65 | 6.64 | 6.40 | 97.5 | 97.4 | 1.44 | 1.45 | 2.03 | 1.8 | 1.9 | 3.1 |
| | | | | | | 25.8 | | 6.63 | | | 97.3 | | 1.45 | | | 2.0 | | |
| | | | 31.4 | 6.18 | 88.5 | 2.18 | 3.7 | | | | | | | | | | | |
| | | / Rain | Middle | 7.5 | 24.4 | 31.4 | 31.4 | 6.15 | 6.17 | 5.67 | 88.1 | 88.3 | 2.15 | 2.17 | | 4.8 | 4.3 | |
| | | | | | | 32.6 | | 5.69 | | | 80.9 | | 2.46 | | | 3.5 | | |
| | | | Bottom | 13.9 | 23.6 | 32.6 | 32.6 | 5.65 | 5.67 | 80.5 | 80.7 | 2.47 | 2.47 | 3.0 | | 3.3 | | |
| 32.6 | 5.65 | 80.5 | 2.47 | 3.0 | | | | | | | | | | | | | | |
| 9/9/2024 | 10:19:06 | 26 | Surface | 1.0 | 27.9 | 32.6 | 32.6 | 5.74 | 5.74 | 5.71 | 87.8 | 87.8 | 1.71 | 1.72 | 2.00 | 3.6 | 3.9 | 3.6 |
| | | | | | | 32.6 | | 5.74 | | | 87.8 | | 1.72 | | | 4.1 | | |
| | | | 32.7 | 5.69 | 87.1 | 1.99 | 4.2 | | | | | | | | | | | |
| | | / Cloudy | Middle | 7.3 | 27.9 | 32.8 | 32.8 | 5.66 | 5.68 | 5.25 | 86.7 | 86.9 | 2.09 | 2.04 | | 2.0 | 3.1 | |
| | | | | | | 33.2 | | 5.24 | | | 80.5 | | 2.29 | | | 4.8 | | |
| | | | Bottom | 13.5 | 28.0 | 33.3 | 33.3 | 5.26 | 5.25 | 80.8 | 80.7 | 2.21 | 2.25 | 2.9 | | 3.9 | | |
| 33.3 | 5.26 | 80.8 | 2.21 | 2.9 | | | | | | | | | | | | | | |
| 12/9/2024 | 16:11:07 | 30 | Surface | 1.0 | 28.4 | 32.1 | 32.1 | 5.68 | 5.68 | 5.60 | 87.3 | 87.3 | 1.96 | 1.94 | 2.22 | 3.6 | 3.9 | 3.9 |
| | | | | | | 32.1 | | 5.68 | | | 87.3 | | 1.92 | | | 4.2 | | |
| | | | 32.4 | 5.53 | 85.2 | 2.23 | 4.8 | | | | | | | | | | | |
| | | / Fine | Middle | 7.1 | 28.4 | 32.4 | 32.4 | 5.52 | 5.53 | 5.54 | 85.0 | 85.1 | 2.24 | 2.24 | | 3.4 | 4.1 | |
| | | | | | | 32.7 | | 5.53 | | | 85.3 | | 2.47 | | | 3.2 | | |
| | | | Bottom | 12.7 | 28.4 | 32.8 | 32.7 | 5.54 | 5.54 | 85.5 | 85.4 | 2.47 | 2.47 | 3.9 | | 3.6 | | |
| 32.8 | 5.54 | 85.5 | 2.47 | 3.9 | | | | | | | | | | | | | | |
| 14/9/2024 | 16:52:24 | 29 | Surface | 1.0 | 28.8 | 32.6 | 32.5 | 7.17 | 7.23 | 6.82 | 111.2 | 112.2 | 1.33 | 1.31 | 1.56 | 3.3 | 3.2 | 3.6 |
| | | | | | | 32.5 | | 7.29 | | | 113.1 | | 1.29 | | | 3.0 | | |
| | | | 33.0 | 6.38 | 99.1 | 1.42 | 4.5 | | | | | | | | | | | |
| | | / Rain | Middle | 9.0 | 28.7 | 32.9 | 33.0 | 6.42 | 6.40 | 5.83 | 99.8 | 99.5 | 1.39 | 1.41 | | 3.5 | 4.0 | |
| | | | | | | 33.3 | | 5.80 | | | 90.2 | | 2.01 | | | 3.8 | | |
| | | | Bottom | 16.3 | 28.6 | 33.3 | 33.3 | 5.85 | 5.83 | 91.0 | 90.6 | 1.93 | 1.97 | 3.7 | | 3.8 | | |
| 33.3 | 5.85 | 91.0 | 1.93 | 3.7 | | | | | | | | | | | | | | |
| 16/9/2024 | 17:00:00 | 28 | Surface | 1.0 | 28.4 | 33.9 | 33.9 | 5.96 | 5.97 | 5.94 | 92.5 | 92.6 | 1.91 | 1.91 | 2.25 | 3.2 | 3.6 | 4.0 |
| | | | | | | 33.9 | | 5.97 | | | 92.7 | | 1.91 | | | 3.9 | | |
| | | | 33.9 | 5.92 | 91.8 | 2.16 | 4.2 | | | | | | | | | | | |
| | | / Cloudy | Middle | 6.7 | 28.3 | 33.9 | 33.9 | 5.90 | 5.91 | 5.84 | 91.5 | 91.7 | 2.16 | 2.16 | | 3.7 | 4.0 | |
| | | | | | | 34.0 | | 5.85 | | | 90.6 | | 2.66 | | | 4.1 | | |
| | | | Bottom | 12.7 | 28.2 | 34.0 | 34.0 | 5.83 | 5.84 | 90.3 | 90.5 | 2.72 | 2.69 | 4.7 | | 4.4 | | |
| 34.0 | 5.83 | 90.3 | 2.72 | 4.7 | | | | | | | | | | | | | | |
| 19/9/2024 | 18:02:30 | 30 | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 6.10 | 6.09 | 6.02 | 95.3 | 95.2 | 3.06 | 3.09 | 3.04 | 4.1 | 3.7 | 3.5 |
| | | | | | | 33.2 | | 6.08 | | | 95.0 | | 3.12 | | | 3.2 | | |
| | | | 33.4 | 5.93 | 92.8 | 2.87 | 4.5 | | | | | | | | | | | |
| | | / Cloudy | Middle | 6.6 | 29.0 | 33.5 | 33.5 | 5.98 | 5.96 | 5.30 | 93.6 | 93.2 | 2.84 | 2.86 | | 2.6 | 3.6 | |
| | | | | | | 33.6 | | 5.29 | | | 82.8 | | 3.15 | | | 2.8 | | |
| | | | Bottom | 12.3 | 29.0 | 33.6 | 33.6 | 5.30 | 5.30 | 83.0 | 82.9 | 3.20 | 3.18 | 4.0 | | 3.4 | | |
| 33.6 | 5.30 | 83.0 | 3.20 | 4.0 | | | | | | | | | | | | | | |
| 21/9/2024 | 07:49:42 | 27 | Surface | 1.0 | 29.0 | 28.5 | 28.5 | 5.97 | 5.96 | 5.83 | 90.9 | 90.7 | 2.81 | 2.83 | 3.10 | 3.7 | 4.2 | 4.2 |
| | | | | | | 28.5 | | 5.94 | | | 90.4 | | 2.84 | | | 4.7 | | |
| | | | 32.8 | 5.71 | 88.8 | 3.08 | 4.8 | | | | | | | | | | | |
| | | / Rain | Middle | 8.8 | 28.9 | 32.8 | 32.8 | 5.69 | 5.70 | 5.36 | 88.5 | 88.7 | 3.13 | 3.11 | | 3.0 | 3.9 | |
| | | | | | | 33.4 | | 5.37 | | | 83.8 | | 3.36 | | | 4.5 | | |
| | | | Bottom | 16.6 | 28.9 | 33.4 | 33.4 | 5.35 | 5.36 | 83.5 | 83.7 | 3.40 | 3.38 | 4.6 | | 4.6 | | |
| 33.4 | 5.35 | 83.5 | 3.40 | 4.6 | | | | | | | | | | | | | | |
| 23/9/2024 | 09:54:35 | 26 | Surface | 1.0 | 28.9 | 33.2 | 33.1 | 5.94 | 5.94 | 5.92 | 92.6 | 92.5 | 2.68 | 2.66 | 3.02 | 4.8 | 4.7 | 4.6 |
| | | | | | | 33.1 | | 5.94 | | | 92.3 | | 2.64 | | | 4.5 | | |
| | | | 33.7 | 5.91 | 92.3 | 3.17 | 4.0 | | | | | | | | | | | |
| | | / Cloudy | Middle | 8.8 | 28.8 | 33.7 | 33.7 | 5.90 | 5.91 | 5.74 | 82.1 | 87.2 | 3.12 | 3.15 | | 4.4 | 4.2 | |
| | | | | | | 34.0 | | 5.75 | | | 89.8 | | 3.25 | | | 4.3 | | |
| | | | Bottom | 16.6 | 28.7 | 34.0 | 34.0 | 5.72 | 5.74 | 89.3 | 89.6 | 3.23 | 3.24 | 5.3 | | 4.8 | | |
| 34.0 | 5.72 | 89.3 | 3.23 | 5.3 | | | | | | | | | | | | | | |
| 25/9/2024 | 15:03:04 | 28 | Surface | 1.0 | 28.8 | 32.2 | 32.2 | 5.83 | 5.85 | 5.79 | 90.3 | 90.6 | 1.91 | 1.91 | 2.65 | 2.0 | 2.1 | 2.2 |
| | | | | | | 32.2 | | 5.86 | | | 90.8 | | 1.90 | | | 2.2 | | |
| | | | 32.7 | 5.76 | 89.4 | 2.88 | 2.0 | | | | | | | | | | | |
| | | / Cloudy | Middle | 6.8 | 28.8 | 32.8 | 32.8 | 5.72 | 5.74 | 5.65 | 88.9 | 89.2 | 2.91 | 2.90 | | 3.6 | 2.8 | |
| | | | | | | 32.9 | | 5.66 | | | 87.9 | | 3.15 | | | 2.1 | | |
| | | | Bottom | 12.4 | 28.7 | 33.1 | 33.0 | 5.63 | 5.65 | 87.5 | 87.7 | 3.17 | 3.16 | 1.2 | | 1.7 | | |
| 33.1 | 5.63 | 87.5 | 3.17 | 1.2 | | | | | | | | | | | | | | |
| 27/9/2024 | 16:17:10 | 30 | Surface | 1.0 | 29.0 | 33.6 | 33.5 | 5.88 | 5.90 | 5.81 | 92.1 | 92.3 | 2.25 | 2.24 | 2.67 | 1.0 | 1.4 | 1.8 |
| | | | | | | 33.5 | | 5.91 | | | 92.5 | | 2.22 | | | 1.8 | | |
| | | | 33.4 | 5.73 | 89.6 | 2.71 | 1.7 | | | | | | | | | | | |
| | | / Cloudy | Middle | 9.4 | 29.0 | 33.5 | 33.5 | 5.73 | 5.73 | 5.66 | 89.7 | 89.7 | 2.73 | 2.72 | | 1.7 | 1.7 | |
| | | | | | | 33.9 | | 5.64 | | | 88.3 | | 3.08 | | | 1.4 | | |
| | | | Bottom | 17.5 | 28.9 | 34.1 | 34.0 | 5.68 | 5.66 | 89.0 | 88.7 | 3.03 | 3.06 | 3.2 | | 2.3 | | |
| 34.1 | 5.68 | 89.0 | 3.03 | 3.2 | | | | | | | | | | | | | | |
| 30/9/2024 | 17:31:09 | 30 | Surface | 1.0 | 29.0 | 34.2 | 34.2 | 5.85 | 5.87 | 5.81 | 91.9 | 92.3 | 2.35 | 2.36 | 2.86 | 3.0 | 3.9 | 3.2 |
| | | | | | | 34.2 | | 5.89 | | | 92.6 | | 2.36 | | | 4.7 | | |
| | | | 34.3 | 5.73 | 90.1 | 3.03 | 2.5 | | | | | | | | | | | |
| | | / Cloudy | Middle | 7.5 | 29.0 | 34.3 | 34.3 | 5.76 | 5.75 | 5.67 | 90.5 | 90.3 | 3.03 | 3.03 | | 3.1 | 2.8 | |
| | | | | | | 34.4 | | 5.66 | | | 88.9 | | 3.19 | | | 2.8 | | |
| | | | Bottom | 14.0 | 29.0 | 34.4 | 34.4 | 5.68 | 5.67 | 89.3 | 89.1 | 3.18 | 3.19 | 3.1 | | 3.0 | | |
| 34.4 | 5.68 | 89.3 | 3.18 | 3.1 | | | | | | | | | | | | | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

Mid-Ebb Tide

Monitoring Station : TKO-C1a

| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Depth-average | Value | Average | Depth-average |
| 2/9/2024 | 11:59:53 | 30 | Surface | 1.0 | 27.2 | 32.8 | 32.7 | 6.66 | 6.67 | 6.03 | 100.8 | 101.0 | 0.69 | 0.67 | 2.09 | 3.3 | 3.5 | 3.5 |
| | | | | | | 32.7 | | 6.68 | | | 101.1 | | 0.64 | | | 3.6 | | |
| | | | Middle | 10.6 | 24.2 | 35.2 | 35.2 | 5.38 | 5.40 | 78.5 | 78.8 | 2.55 | 2.57 | 3.2 | | | | |
| | | 35.2 | 5.41 | 79.0 | 2.59 | 3.8 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 20.6 | 23.8 | 23.8 | 35.5 | 35.5 | 5.20 | 5.21 | 5.21 | 75.5 | 75.6 | 3.08 | | 3.04 | 3.5 | |
| | | | | | | | 35.5 | | 5.22 | | | 75.7 | | 2.99 | | | 3.5 | |
| Bottom | 20.6 | | 23.8 | 23.8 | 35.5 | 35.5 | 5.22 | 5.21 | 5.21 | 75.5 | 75.6 | 3.08 | 3.04 | 3.5 | | | | |
| 4/9/2024 | 12:51:47 | 30 | Surface | 1.0 | 27.9 | 32.8 | 32.9 | 6.79 | 6.90 | 6.44 | 103.8 | 105.5 | 1.20 | 1.16 | 2.30 | 4.1 | 4.4 | 4.4 |
| | | | | | | 32.9 | | 7.00 | | | 107.1 | | 1.12 | | | 4.7 | | |
| | | | Middle | 10.5 | 24.1 | 35.4 | 35.3 | 5.96 | 5.98 | 86.8 | 87.2 | 2.33 | 2.29 | 4.6 | | | | |
| | | 35.3 | 5.99 | 87.5 | 2.24 | 4.9 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 19.6 | 23.6 | 23.6 | 35.8 | 35.8 | 5.38 | 5.38 | 5.38 | 77.9 | 77.9 | 3.47 | | 3.46 | 3.7 | |
| | | | | | | | 35.8 | | 5.38 | | | 77.9 | | 3.45 | | | 4.6 | |
| Bottom | 19.6 | | 23.6 | 23.6 | 35.8 | 35.8 | 5.38 | 5.38 | 5.38 | 77.9 | 77.9 | 3.47 | 3.46 | 4.6 | | | | |
| 7/9/2024 | 13:44:52 | 29 | Surface | 1.0 | 27.6 | 25.5 | 25.5 | 6.01 | 6.00 | 5.83 | 87.9 | 87.8 | 1.34 | 1.35 | 1.89 | 4.6 | 4.6 | 4.1 |
| | | | | | | 25.5 | | 5.98 | | | 87.6 | | 1.35 | | | 4.6 | | |
| | | | Middle | 10.4 | 24.3 | 31.8 | 31.8 | 5.68 | 5.67 | 81.4 | 81.3 | 1.87 | 1.88 | 3.3 | | | | |
| | | 31.8 | 5.66 | 81.2 | 1.88 | 4.4 | | | | | | | | | | | | |
| | | / Rain | Bottom | 19.9 | 23.8 | 23.8 | 32.6 | 32.6 | 5.42 | 5.41 | 5.41 | 77.3 | 77.1 | 2.42 | | 2.44 | 4.8 | |
| | | | | | | | 32.7 | | 5.39 | | | 76.9 | | 2.45 | | | 2.9 | |
| Bottom | 19.9 | | 23.8 | 23.8 | 32.7 | 32.6 | 5.39 | 5.41 | 5.41 | 76.9 | 77.1 | 2.45 | 2.44 | 2.9 | | | | |
| 9/9/2024 | 15:11:04 | 26 | Surface | 1.0 | 27.9 | 32.6 | 32.6 | 5.63 | 5.64 | 5.61 | 86.1 | 86.2 | 1.87 | 1.88 | 2.30 | 3.5 | 4.1 | 4.3 |
| | | | | | | 32.6 | | 5.64 | | | 86.2 | | 1.88 | | | 4.6 | | |
| | | | Middle | 9.4 | 28.0 | 33.3 | 33.3 | 5.58 | 5.59 | 85.8 | 85.9 | 2.31 | 2.32 | 4.2 | | | | |
| | | 33.3 | 5.59 | 86.0 | 2.33 | 4.9 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 17.1 | 28.1 | 28.1 | 33.6 | 33.6 | 5.32 | 5.32 | 5.32 | 82.0 | 82.0 | 2.65 | | 2.70 | 4.8 | |
| | | | | | | | 33.6 | | 5.31 | | | 81.9 | | 2.74 | | | 3.9 | |
| Bottom | 17.1 | | 28.1 | 28.1 | 33.6 | 33.6 | 5.31 | 5.32 | 5.32 | 81.9 | 82.0 | 2.74 | 2.70 | 3.9 | | | | |
| 12/9/2024 | 8:17:05 | 30 | Surface | 1.0 | 28.4 | 32.2 | 32.2 | 5.62 | 5.62 | 5.61 | 86.4 | 86.4 | 2.05 | 2.07 | 2.35 | 3.9 | 3.9 | 4.1 |
| | | | | | | 32.2 | | 5.62 | | | 86.4 | | 2.09 | | | 3.9 | | |
| | | | Middle | 9.6 | 28.4 | 32.5 | 32.5 | 5.60 | 5.60 | 86.3 | 86.3 | 2.24 | 2.31 | 4.7 | | | | |
| | | 32.6 | 5.60 | 86.3 | 2.38 | 3.3 | | | | | | | | | | | | |
| | | / Fine | Bottom | 17.9 | 28.4 | 28.4 | 32.8 | 32.8 | 5.66 | 5.67 | 5.67 | 87.4 | 87.6 | 2.65 | | 2.66 | 4.3 | |
| | | | | | | | 32.9 | | 5.68 | | | 87.7 | | 2.67 | | | 4.5 | |
| Bottom | 17.9 | | 28.4 | 28.4 | 32.9 | 32.8 | 5.68 | 5.67 | 5.67 | 87.7 | 87.6 | 2.67 | 2.66 | 4.5 | | | | |
| 14/9/2024 | 9:19:21 | 29 | Surface | 1.0 | 28.8 | 32.5 | 32.5 | 7.15 | 7.20 | 6.68 | 110.9 | 111.7 | 1.32 | 1.29 | 1.70 | 3.2 | 3.3 | 3.0 |
| | | | | | | 32.4 | | 7.24 | | | 112.4 | | 1.26 | | | 3.3 | | |
| | | | Middle | 10.6 | 28.7 | 33.1 | 33.1 | 6.16 | 6.16 | 95.8 | 95.8 | 1.55 | 1.55 | 2.8 | | | | |
| | | 33.1 | 6.16 | 95.8 | 1.55 | 3.2 | | | | | | | | | | | | |
| | | / Rain | Bottom | 19.9 | 28.5 | 28.5 | 33.6 | 33.5 | 5.71 | 5.71 | 5.71 | 88.7 | 88.7 | 2.22 | | 2.25 | 2.6 | |
| | | | | | | | 33.5 | | 5.71 | | | 88.7 | | 2.28 | | | 2.7 | |
| Bottom | 19.9 | | 28.5 | 28.5 | 33.5 | 33.5 | 5.71 | 5.71 | 5.71 | 88.7 | 88.7 | 2.28 | 2.25 | 2.7 | | | | |
| 16/9/2024 | 10:36:01 | 28 | Surface | 1.0 | 28.3 | 33.9 | 33.9 | 5.72 | 5.74 | 5.64 | 88.7 | 89.0 | 2.31 | 2.28 | 2.79 | 4.3 | 4.0 | 4.4 |
| | | | | | | 33.9 | | 5.76 | | | 89.3 | | 2.24 | | | 3.6 | | |
| | | | Middle | 10.7 | 28.1 | 34.2 | 34.1 | 5.52 | 5.55 | 85.4 | 85.8 | 2.99 | 3.00 | 4.6 | | | | |
| | | 34.1 | 5.57 | 86.2 | 3.00 | 4.5 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 20.8 | 28.0 | 28.0 | 34.3 | 34.3 | 5.38 | 5.38 | 5.38 | 83.2 | 83.2 | 3.11 | | 3.10 | 4.9 | |
| | | | | | | | 34.3 | | 5.38 | | | 83.2 | | 3.08 | | | 4.6 | |
| Bottom | 20.8 | | 28.0 | 28.0 | 34.3 | 34.3 | 5.38 | 5.38 | 5.38 | 83.2 | 83.2 | 3.08 | 3.10 | 4.6 | | | | |
| 19/9/2024 | 11:30:09 | 30 | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 6.01 | 6.00 | 5.92 | 93.8 | 93.7 | 2.96 | 2.98 | 3.14 | 4.4 | 4.5 | 4.4 |
| | | | | | | 33.2 | | 5.99 | | | 93.5 | | 2.99 | | | 4.5 | | |
| | | | Middle | 10.1 | 29.0 | 33.5 | 33.5 | 5.84 | 5.85 | 91.3 | 91.4 | 3.08 | 3.10 | 3.9 | | | | |
| | | 33.5 | 5.85 | 91.5 | 3.12 | 4.6 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 19.0 | 28.9 | 28.9 | 33.6 | 33.6 | 5.29 | 5.29 | 5.29 | 82.7 | 82.7 | 3.33 | | 3.35 | 4.0 | |
| | | | | | | | 33.6 | | 5.29 | | | 82.7 | | 3.37 | | | 5.1 | |
| Bottom | 19.0 | | 28.9 | 28.9 | 33.6 | 33.6 | 5.29 | 5.29 | 5.29 | 82.7 | 82.7 | 3.37 | 3.35 | 5.1 | | | | |
| 21/9/2024 | 13:20:25 | 27 | Surface | 1.0 | 29.1 | 27.7 | 27.7 | 5.94 | 5.93 | 5.82 | 90.2 | 90.1 | 2.83 | 2.86 | 3.11 | 4.1 | 4.4 | 4.6 |
| | | | | | | 27.7 | | 5.92 | | | 89.9 | | 2.89 | | | 4.7 | | |
| | | | Middle | 10.7 | 29.0 | 32.7 | 32.7 | 5.72 | 5.70 | 89.1 | 88.8 | 3.07 | 3.08 | 4.6 | | | | |
| | | 32.7 | 5.68 | 88.5 | 3.08 | 4.2 | | | | | | | | | | | | |
| | | / Rain | Bottom | 20.4 | 28.9 | 28.9 | 33.4 | 33.4 | 5.37 | 5.36 | 5.36 | 83.9 | 83.7 | 3.37 | | 3.39 | 5.2 | |
| | | | | | | | 33.5 | | 5.34 | | | 83.4 | | 3.41 | | | 4.8 | |
| Bottom | 20.4 | | 28.9 | 28.9 | 33.5 | 33.4 | 5.34 | 5.36 | 5.36 | 83.4 | 83.7 | 3.41 | 3.39 | 4.8 | | | | |
| 23/9/2024 | 14:55:42 | 26 | Surface | 1.0 | 28.9 | 33.1 | 33.1 | 5.97 | 5.96 | 5.90 | 93.0 | 92.9 | 2.34 | 2.34 | 2.79 | 4.1 | 4.3 | 4.5 |
| | | | | | | 33.1 | | 5.95 | | | 92.7 | | 2.34 | | | 4.4 | | |
| | | | Middle | 10.7 | 28.8 | 33.7 | 33.7 | 5.83 | 5.84 | 91.0 | 91.2 | 2.56 | 2.55 | 4.7 | | | | |
| | | 33.8 | 5.85 | 91.4 | 2.53 | 4.2 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 20.3 | 28.8 | 28.8 | 34.2 | 34.2 | 5.38 | 5.38 | 5.38 | 84.2 | 84.2 | 3.49 | | 3.48 | 4.5 | |
| | | | | | | | 34.2 | | 5.38 | | | 84.2 | | 3.46 | | | 4.9 | |
| Bottom | 20.3 | | 28.8 | 28.8 | 34.2 | 34.2 | 5.38 | 5.38 | 5.38 | 84.2 | 84.2 | 3.46 | 3.48 | 4.9 | | | | |
| 25/9/2024 | 7:29:06 | 28 | Surface | 1.0 | 28.8 | 32.5 | 32.4 | 5.91 | 5.92 | 5.88 | 91.7 | 91.8 | 2.29 | 2.27 | 2.93 | 3.3 | 3.7 | 2.7 |
| | | | | | | 32.4 | | 5.92 | | | 91.8 | | 2.25 | | | 4.0 | | |
| | | | Middle | 10.7 | 28.8 | 33.1 | 33.0 | 5.86 | 5.85 | 91.2 | 91.0 | 3.11 | 3.13 | 2.7 | | | | |
| | | 33.0 | 5.83 | 90.7 | 3.14 | 3.1 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 20.2 | 28.8 | 28.8 | 33.2 | 33.2 | 5.64 | 5.64 | 5.64 | 87.8 | 87.8 | 3.37 | | 3.38 | 1.3 | |
| | | | | | | | 33.2 | | 5.64 | | | 87.8 | | 3.39 | | | 1.6 | |
| Bottom | 20.2 | | 28.8 | 28.8 | 33.2 | 33.2 | 5.64 | 5.64 | 5.64 | 87.8 | 87.8 | 3.39 | 3.38 | 1.6 | | | | |
| 27/9/2024 | 9:26:05 | 30 | Surface | 1.0 | 29.1 | 32.7 | 32.7 | 5.91 | 5.90 | 5.87 | 92.2 | 92.1 | 1.79 | 1.78 | 2.79 | 2.3 | 2.4 | 3.6 |
| | | | | | | 32.7 | | 5.89 | | | 91.9 | | 1.77 | | | 2.5 | | |
| | | | Middle | 10.5 | 29.0 | 33.8 | 33.8 | 5.83 | 5.84 | 91.4 | 91.6 | 2.94 | 2.96 | 4.1 | | | | |
| | | 33.9 | 5.85 | 91.7 | 2.97 | 3.4 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 19.7 | 28.9 | 28.9 | 34.3 | 34.4 | 5.66 | 5.65 | 5.65 | 88.8 | 88.6 | 3.61 | | 3.62 | 4.1 | |
| | | | | | | | 34.5 | | 5.64 | | | 88.4 | | 3.63 | | | 5.4 | |
| Bottom | 19.7 | | 28.9 | 28.9 | 34.5 | 34.4 | 5.64 | 5.65 | 5.65 | 88.4 | 88.6 | 3.63 | 3.62 | 5.4 | | | | |
| 30/9/2024 | 10:31:09 | 30 | Surface | 1.0 | 29.1 | 34.1 | 34.0 | 6.21 | 6.23 | 5.91 | 97.5 | 97.8 | 2.36 | 2.35 | 2.96 | 3.2 | 3.6 | 3.4 |
| | | | | | | 34.0 | | 6.24 | | | 98.0 | | 2.33 | | | 3.9 | | |
| | | | Middle | 10.7 | 28.9 | 34.4 | 34.4 | 5.56 | 5.59 | 87.3 | 87.8 | 3.18 | 3.17 | 1.2 | | | | |
| | | 34.4 | 5.61 | 88.2 | 3.16 | 2.7 | | | | | | | | | | | | |
| | | / Cloudy | Bottom | 20.5 | 28.9 | 28.9 | 34.5 | 34.5 | 5.51 | 5.51 | 5.51 | 86.6 | 86.6 | 3.39 | | 3.37 | 4.5 | |
| | | | | | | | 34.5 | | 5.51 | | | 86.5 | | 3.35 | | | 4.9 | |
| Bottom | 20.5 | | 28.9 | 28.9 | 34.5 | 34.5 | 5.51 | 5.51 | 5.51 | 86.5 | 86.6 | 3.35 | 3.37 | 4.9 | | | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

Mid-Ebb Tide

Monitoring Station : TKO-M4a

| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|---------------|-------------------------|---------|---------------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Depth-average | Value | Average | Depth-average |
| 2/9/2024 | 12:15:43 | 30 | Surface | 1.0 | 27.3 | 32.8 | 32.8 | 6.89 | 6.89 | 6.50 | 104.4 | 104.3 | 0.63 | 0.61 | 3.6 | 2.9 | 3.0 | |
| | | | | | | 32.8 | | 6.88 | | | 104.1 | | 0.58 | | 2.1 | | | |
| | | | Middle | 9.3 | 25.4 | 34.0 | 34.1 | 6.29 | 6.12 | 93.0 | 90.5 | 1.17 | 1.16 | 2.2 | 2.8 | | | |
| | | / Cloudy | Bottom | 17.5 | 24.3 | 35.2 | 35.2 | 5.49 | 5.47 | 5.47 | 80.2 | 79.8 | 2.48 | 2.51 | 3.8 | 3.5 | 3.1 | 3.5 |
| | | | | | | 35.3 | | 5.45 | | | 79.4 | | 2.53 | | 3.1 | | | |
| | | | | | | 33.0 | | 7.91 | | | 121.4 | | 0.64 | | 4.8 | | | |
| 4/9/2024 | 13:07:57 | 30 | Surface | 1.0 | 28.0 | 33.0 | 33.0 | 7.91 | 7.92 | 7.45 | 121.5 | 121.5 | 0.67 | 0.66 | 4.8 | 4.4 | 4.4 | |
| | | | | | | 33.0 | | 7.92 | | | 121.5 | | 0.67 | | 3.9 | | | |
| | | | Middle | 9.2 | 24.9 | 34.9 | 34.8 | 7.01 | 6.98 | 103.2 | 102.7 | 2.19 | 2.23 | 4.1 | 4.2 | | | |
| | | / Cloudy | Bottom | 17.1 | 23.7 | 35.7 | 35.7 | 5.40 | 5.39 | 5.39 | 78.3 | 78.1 | 3.31 | 3.36 | 4.4 | 4.8 | 5.1 | 4.8 |
| | | | | | | 34.8 | | 6.94 | | | 102.2 | | 2.26 | | 4.2 | | | |
| | | | | | | 35.7 | | 5.37 | | | 77.9 | | 3.41 | | 5.1 | | | |
| 7/9/2024 | 13:56:14 | 29 | Surface | 1.0 | 27.5 | 25.2 | 25.2 | 5.96 | 5.95 | 5.76 | 86.9 | 86.8 | 1.52 | 1.53 | 2.4 | 2.1 | 2.6 | |
| | | | | | | 25.2 | | 5.94 | | | 86.7 | | 1.53 | | 1.7 | | | |
| | | | Middle | 9.4 | 24.6 | 31.3 | 31.3 | 5.58 | 5.58 | 80.1 | 80.1 | 1.94 | 1.96 | 2.3 | 3.0 | | | |
| | | / Rain | Bottom | 17.5 | 23.8 | 32.4 | 32.5 | 5.38 | 5.37 | 5.37 | 76.7 | 76.6 | 2.26 | 2.25 | 3.7 | 2.7 | 3.7 | 2.7 |
| | | | | | | 32.5 | | 5.36 | | | 76.4 | | 2.23 | | 1.6 | | | |
| | | | | | | 31.3 | | 5.57 | | | 80.1 | | 1.97 | | 3.7 | | | |
| 9/9/2024 | 15:29:08 | 26 | Surface | 1.0 | 27.9 | 32.6 | 32.6 | 5.66 | 5.66 | 5.59 | 86.5 | 86.5 | 1.77 | 1.78 | 4.0 | 3.7 | 3.8 | |
| | | | | | | 32.6 | | 5.65 | | | 86.4 | | 1.78 | | 3.3 | | | |
| | | | Middle | 7.2 | 28.0 | 33.3 | 33.3 | 5.51 | 5.52 | 84.7 | 84.9 | 2.38 | 2.38 | 4.3 | 3.9 | | | |
| | | / Cloudy | Bottom | 13.1 | 28.0 | 33.3 | 33.5 | 5.53 | 5.28 | 5.28 | 85.0 | 81.3 | 2.37 | 2.68 | 3.5 | 3.7 | 3.3 | 3.7 |
| | | | | | | 33.5 | | 5.27 | | | 81.2 | | 2.68 | | 4.1 | | | |
| | | | | | | 33.5 | | 5.29 | | | 81.4 | | 2.68 | | 4.1 | | | |
| 12/9/2024 | 8:34:06 | 30 | Surface | 1.0 | 28.4 | 32.2 | 32.2 | 5.61 | 5.61 | 5.60 | 86.3 | 86.3 | 1.99 | 1.99 | 3.6 | 4.2 | 4.3 | |
| | | | | | | 32.2 | | 5.61 | | | 86.3 | | 1.99 | | 4.8 | | | |
| | | | Middle | 7.5 | 28.4 | 32.6 | 32.6 | 5.58 | 5.58 | 86.0 | 86.0 | 2.31 | 2.30 | 5.1 | 4.6 | | | |
| | | / Fine | Bottom | 13.2 | 28.4 | 32.6 | 32.8 | 5.58 | 5.62 | 5.62 | 86.0 | 86.7 | 2.29 | 2.52 | 4.0 | 4.2 | 4.6 | 4.2 |
| | | | | | | 32.8 | | 5.62 | | | 86.7 | | 2.53 | | 4.6 | | | |
| | | | | | | 32.8 | | 5.61 | | | 86.6 | | 2.51 | | 3.7 | | | |
| 14/9/2024 | 9:20:27 | 29 | Surface | 1.0 | 28.9 | 32.3 | 32.3 | 7.68 | 7.69 | 7.20 | 119.2 | 119.3 | 1.25 | 1.24 | 3.8 | 4.3 | 3.5 | |
| | | | | | | 32.3 | | 7.69 | | | 119.4 | | 1.23 | | 4.7 | | | |
| | | | Middle | 9.5 | 28.8 | 32.6 | 32.6 | 6.80 | 6.72 | 105.5 | 104.3 | 1.27 | 1.31 | 2.8 | 3.6 | | | |
| | | / Rain | Bottom | 18.1 | 28.7 | 32.7 | 33.2 | 6.64 | 6.23 | 6.23 | 103.1 | 96.8 | 1.34 | 1.90 | 4.3 | 2.6 | 2.2 | 2.6 |
| | | | | | | 33.2 | | 6.23 | | | 96.7 | | 1.82 | | 3.0 | | | |
| | | | | | | 33.2 | | 6.23 | | | 96.9 | | 1.97 | | 3.0 | | | |
| 16/9/2024 | 10:58:12 | 28 | Surface | 1.0 | 28.4 | 33.8 | 33.8 | 5.82 | 5.82 | 5.77 | 90.4 | 90.4 | 1.86 | 1.90 | 3.6 | 4.0 | 4.1 | |
| | | | | | | 33.8 | | 5.82 | | | 90.4 | | 1.93 | | 4.3 | | | |
| | | | Middle | 9.6 | 28.3 | 34.0 | 34.0 | 5.72 | 5.71 | 88.7 | 88.6 | 2.63 | 2.67 | 3.2 | 3.8 | | | |
| | | / Cloudy | Bottom | 18.9 | 28.0 | 34.0 | 34.3 | 5.70 | 5.43 | 5.43 | 88.4 | 83.9 | 2.70 | 3.34 | 4.3 | 4.6 | 4.5 | 4.6 |
| | | | | | | 34.3 | | 5.43 | | | 83.9 | | 3.38 | | 4.5 | | | |
| | | | | | | 34.3 | | 5.42 | | | 83.8 | | 3.29 | | 4.6 | | | |
| 19/9/2024 | 11:42:27 | 30 | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 5.87 | 5.86 | 5.83 | 91.6 | 91.5 | 3.26 | 3.28 | 3.5 | 4.4 | 4.2 | |
| | | | | | | 33.2 | | 5.85 | | | 91.3 | | 3.29 | | 5.2 | | | |
| | | | Middle | 8.1 | 29.0 | 33.3 | 33.3 | 5.81 | 5.80 | 90.8 | 90.6 | 3.00 | 3.01 | 4.5 | 3.9 | | | |
| | | / Cloudy | Bottom | 15.3 | 29.0 | 33.3 | 33.5 | 5.78 | 5.26 | 5.26 | 90.3 | 82.3 | 3.01 | 3.27 | 3.3 | 4.3 | 4.9 | 4.3 |
| | | | | | | 33.5 | | 5.25 | | | 82.1 | | 3.24 | | 4.9 | | | |
| | | | | | | 33.5 | | 5.27 | | | 82.4 | | 3.29 | | 3.6 | | | |
| 21/9/2024 | 13:36:26 | 27 | Surface | 1.0 | 29.1 | 27.4 | 27.4 | 6.28 | 6.27 | 6.09 | 95.2 | 95.0 | 2.93 | 2.95 | 3.4 | 3.3 | 4.2 | |
| | | | | | | 27.5 | | 6.25 | | | 94.7 | | 2.96 | | 3.1 | | | |
| | | | Middle | 9.7 | 29.0 | 32.5 | 32.5 | 5.93 | 5.92 | 92.3 | 92.1 | 3.16 | 3.17 | 4.8 | 4.6 | | | |
| | | / Rain | Bottom | 18.2 | 29.0 | 32.5 | 33.2 | 5.90 | 5.65 | 5.65 | 91.8 | 88.3 | 3.17 | 3.33 | 4.4 | 4.9 | 5.1 | 4.9 |
| | | | | | | 33.2 | | 5.66 | | | 88.4 | | 3.34 | | 4.6 | | | |
| | | | | | | 33.2 | | 5.64 | | | 88.1 | | 3.32 | | 4.6 | | | |
| 23/9/2024 | 15:11:47 | 26 | Surface | 1.0 | 28.9 | 33.5 | 33.3 | 6.24 | 6.24 | 6.13 | 97.5 | 97.4 | 2.41 | 2.43 | 4.5 | 4.6 | 4.5 | |
| | | | | | | 33.1 | | 6.24 | | | 97.3 | | 2.44 | | 4.7 | | | |
| | | | Middle | 9.6 | 28.9 | 34.1 | 34.1 | 6.02 | 6.02 | 94.4 | 94.4 | 2.97 | 2.96 | 4.9 | 4.5 | | | |
| | | / Cloudy | Bottom | 18.0 | 28.8 | 34.1 | 34.3 | 6.02 | 5.54 | 5.54 | 94.4 | 86.7 | 2.94 | 3.34 | 4.1 | 4.5 | 4.1 | 4.5 |
| | | | | | | 34.3 | | 5.67 | | | 88.8 | | 3.37 | | 4.1 | | | |
| | | | | | | 34.3 | | 5.40 | | | 84.6 | | 3.31 | | 4.8 | | | |
| 25/9/2024 | 7:46:11 | 28 | Surface | 1.0 | 28.8 | 32.2 | 32.2 | 6.25 | 6.26 | 6.06 | 96.8 | 96.9 | 1.87 | 1.88 | 1.1 | 1.6 | 2.1 | |
| | | | | | | 32.2 | | 6.26 | | | 96.9 | | 1.88 | | 2.0 | | | |
| | | | Middle | 9.3 | 28.8 | 32.4 | 32.4 | 5.88 | 5.87 | 91.2 | 91.1 | 2.18 | 2.20 | 3.2 | 2.8 | | | |
| | | / Cloudy | Bottom | 17.8 | 28.7 | 32.5 | 33.0 | 5.86 | 5.81 | 5.81 | 90.9 | 90.2 | 2.21 | 2.91 | 2.4 | 2.0 | 2.6 | 2.0 |
| | | | | | | 32.9 | | 5.81 | | | 90.2 | | 2.92 | | 2.6 | | | |
| | | | | | | 33.0 | | 5.81 | | | 90.2 | | 2.89 | | 1.3 | | | |
| 27/9/2024 | 9:47:03 | 30 | Surface | 1.0 | 29.1 | 32.7 | 32.7 | 5.87 | 5.88 | 5.80 | 91.6 | 91.7 | 1.80 | 1.80 | 4.0 | 3.3 | 3.7 | |
| | | | | | | 32.7 | | 5.87 | | | 91.8 | | 1.79 | | 2.6 | | | |
| | | | Middle | 9.4 | 29.0 | 33.6 | 33.7 | 5.74 | 5.73 | 89.9 | 89.7 | 2.78 | 2.79 | 4.3 | 4.4 | | | |
| | | / Cloudy | Bottom | 17.5 | 28.9 | 33.8 | 34.2 | 5.71 | 5.61 | 5.61 | 89.5 | 88.0 | 2.80 | 3.11 | 4.4 | 3.6 | 4.6 | 3.6 |
| | | | | | | 34.2 | | 5.60 | | | 87.8 | | 3.10 | | 4.6 | | | |
| | | | | | | 34.4 | | 5.61 | | | 88.1 | | 3.12 | | 2.5 | | | |
| 30/9/2024 | 10:48:02 | 30 | Surface | 1.0 | 29.1 | 33.9 | 33.9 | 6.31 | 6.33 | 6.18 | 99.1 | 99.4 | 1.90 | 1.90 | 5.2 | 4.9 | 3.9 | |
| | | | | | | 33.9 | | 6.35 | | | 99.7 | | 1.89 | | 4.5 | | | |
| | | | Middle | 9.6 | 29.0 | 34.1 | 34.2 | 6.04 | 6.03 | 95.0 | 94.9 | 2.62 | 2.62 | 4.6 | 3.6 | | | |
| | | / Cloudy | Bottom | 18.1 | 28.9 | 34.2 | 34.5 | 6.02 | 5.57 | 5.57 | 94.7 | 87.5 | 2.61 | 3.01 | 2.6 | 3.2 | 3.8 | 3.2 |
| | | | | | | 34.5 | | 5.57 | | | 87.5 | | 2.99 | | 3.8 | | | |
| | | | | | | 34.5 | | 5.56 | | | 87.4 | | 3.02 | | 2.5 | | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

Mid-Ebb Tide

Monitoring Station : TKO-M5

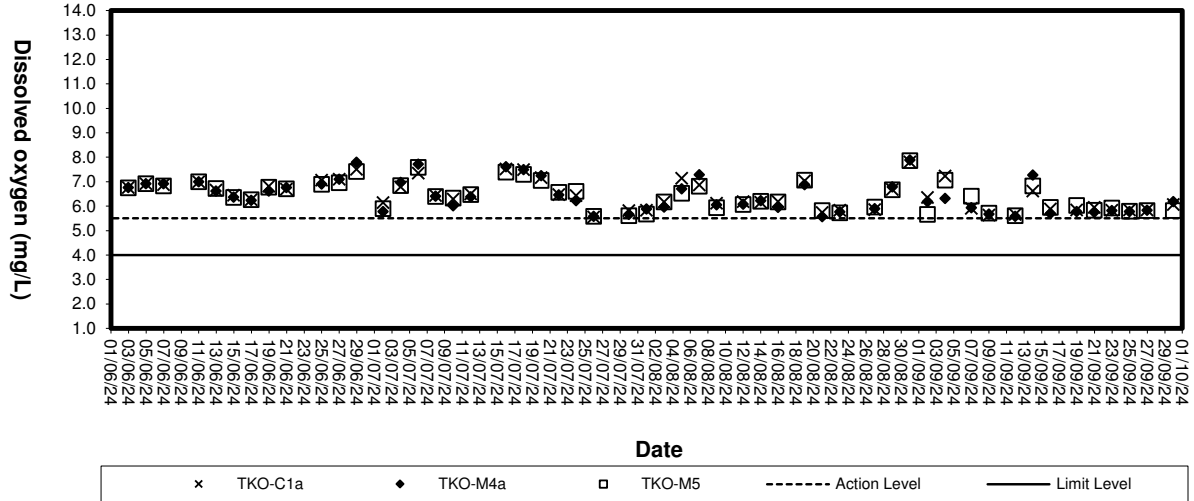
| Date | Time | Ambient Temp (°C) / Weather Condition | Monitoring Depth (m) | | Temp (°C) | Salinity (ppt) | | Dissolved Oxygen (mg/L) | | | Dissolved Oxygen Saturation (%) | | Turbidity (NTU) | | | Suspended Solids (mg/L) | | |
|-----------|----------|---------------------------------------|----------------------|------|-----------|----------------|---------|-------------------------|---------|---------------|---------------------------------|---------|-----------------|---------|-------|-------------------------|---------------|-------|
| | | | | | | Value | Average | Value | Average | Depth-average | Value | Average | Value | Average | Value | Average | Depth-average | Value |
| 2/9/2024 | 12:30:58 | 30 | Surface | 1.0 | 26.8 | 33.0 | 33.0 | 5.98 | 6.04 | 5.87 | 89.9 | 90.9 | 1.09 | 1.01 | 1.97 | 4.2 | 4.0 | 3.2 |
| | | | | | | 32.9 | | 6.09 | | | 91.8 | | 0.92 | | | 3.7 | | |
| | | / Cloudy | Middle | 7.2 | 25.6 | 34.0 | 34.0 | 5.67 | 5.71 | 84.1 | 84.6 | 2.34 | 2.32 | 1.9 | | 1.6 | 1.2 | |
| | | | | | | 34.0 | | 5.74 | | 85.1 | | 2.29 | | 3.2 | | | | |
| | | Bottom | 13.3 | 23.9 | 35.4 | 35.4 | 5.26 | 5.28 | 5.28 | 5.28 | 76.4 | 76.7 | 2.65 | 2.59 | | 4.8 | | |
| | | | | | 35.4 | | 5.29 | | 77.0 | | 2.52 | | 4.0 | | | | | |
| 4/9/2024 | 13:22:58 | 30 | Surface | 1.0 | 27.8 | 32.9 | 32.9 | 6.94 | 7.10 | 6.91 | 106.1 | 108.7 | 1.08 | 1.00 | 2.04 | 3.5 | 3.3 | 4.0 |
| | | | | | | 33.0 | | 7.26 | | | 111.2 | | 0.91 | | | 3.0 | | |
| | | / Cloudy | Middle | 7.7 | 25.6 | 34.2 | 34.3 | 6.73 | 6.73 | 100.0 | 99.9 | 1.98 | 1.97 | 4.8 | | 4.9 | 4.9 | |
| | | | | | | 34.3 | | 6.72 | | 99.8 | | 1.95 | | 4.5 | | | | |
| | | Bottom | 14.4 | 23.9 | 35.5 | 35.5 | 5.25 | 5.26 | 5.26 | 5.26 | 76.3 | 76.5 | 3.16 | 3.17 | | 3.4 | | |
| | | | | | 35.5 | | 5.27 | | 76.6 | | 3.18 | | 4.0 | | | | | |
| 7/9/2024 | 14:14:30 | 29 | Surface | 1.0 | 27.6 | 25.7 | 25.7 | 6.12 | 6.11 | 6.04 | 89.6 | 89.6 | 1.49 | 1.51 | 1.92 | 4.5 | 3.4 | 2.4 |
| | | | | | | 25.7 | | 6.10 | | | 89.5 | | 1.52 | | | 2.3 | | |
| | | / Rain | Middle | 7.6 | 24.8 | 31.6 | 31.6 | 5.97 | 5.96 | 86.2 | 86.1 | 1.85 | 1.87 | 2.3 | | 1.8 | 1.2 | |
| | | | | | | 31.6 | | 5.95 | | 85.9 | | 1.88 | | 1.6 | | | | |
| | | Bottom | 14.2 | 24.0 | 32.5 | 32.5 | 5.64 | 5.63 | 5.63 | 5.63 | 80.7 | 80.6 | 2.38 | 2.39 | | 2.3 | | |
| | | | | | 32.6 | | 5.62 | | 80.4 | | 2.39 | | 2.0 | | | | | |
| 9/9/2024 | 15:53:06 | 26 | Surface | 1.0 | 27.9 | 32.6 | 32.6 | 5.55 | 5.56 | 5.53 | 84.9 | 85.0 | 1.91 | 1.90 | 2.45 | 5.4 | 5.1 | 4.0 |
| | | | | | | 32.6 | | 5.56 | | | 85.0 | | 1.89 | | | 4.7 | | |
| | | / Cloudy | Middle | 6.6 | 27.9 | 32.9 | 32.9 | 5.51 | 5.51 | 84.4 | 84.3 | 2.40 | 2.44 | 2.7 | | 3.1 | 3.4 | |
| | | | | | | 32.9 | | 5.50 | | 84.2 | | 2.47 | | 3.5 | | | | |
| | | Bottom | 12.0 | 28.0 | 33.5 | 33.5 | 5.22 | 5.23 | 5.23 | 5.23 | 80.4 | 80.6 | 3.04 | 3.03 | | 4.0 | | |
| | | | | | 33.6 | | 5.24 | | 80.7 | | 3.01 | | 3.8 | | | | | |
| 12/9/2024 | 8:48:06 | 30 | Surface | 1.0 | 28.4 | 32.2 | 32.2 | 5.61 | 5.61 | 5.60 | 86.3 | 86.3 | 1.96 | 1.96 | 2.19 | 3.5 | 4.2 | 3.7 |
| | | | | | | 32.2 | | 5.61 | | | 86.3 | | 1.96 | | | 4.9 | | |
| | | / Fine | Middle | 6.5 | 28.4 | 32.5 | 32.5 | 5.60 | 5.60 | 86.3 | 86.3 | 2.17 | 2.19 | 3.9 | | 4.1 | 4.3 | |
| | | | | | | 32.5 | | 5.59 | | 86.2 | | 2.20 | | 2.1 | | | | |
| | | Bottom | 11.9 | 28.4 | 32.8 | 32.8 | 5.59 | 5.60 | 5.60 | 5.60 | 86.3 | 86.5 | 2.40 | 2.42 | | 3.7 | | |
| | | | | | 32.8 | | 5.61 | | 86.6 | | 2.43 | | 2.9 | | | | | |
| 14/9/2024 | 9:50:17 | 29 | Surface | 1.0 | 28.8 | 32.6 | 32.5 | 7.21 | 7.24 | 6.74 | 111.8 | 112.3 | 1.31 | 1.30 | 1.51 | 3.3 | 3.1 | 3.5 |
| | | | | | | 32.5 | | 7.27 | | | 112.7 | | 1.28 | | | 2.9 | | |
| | | / Rain | Middle | 7.4 | 28.7 | 33.1 | 33.0 | 6.22 | 6.23 | 96.7 | 96.9 | 1.47 | 1.46 | 4.4 | | 4.5 | 4.6 | |
| | | | | | | 33.0 | | 6.24 | | 97.0 | | 1.44 | | 2.4 | | | | |
| | | Bottom | 13.6 | 28.7 | 33.2 | 33.2 | 6.31 | 6.31 | 6.31 | 6.31 | 98.2 | 98.2 | 1.80 | 1.79 | | 3.2 | | |
| | | | | | 33.2 | | 6.31 | | 98.1 | | 1.78 | | 2.8 | | | | | |
| 16/9/2024 | 11:12:04 | 28 | Surface | 1.0 | 28.3 | 33.9 | 33.9 | 5.68 | 5.69 | 5.63 | 88.1 | 88.3 | 2.38 | 2.33 | 2.89 | 3.6 | 4.3 | 3.9 |
| | | | | | | 33.9 | | 5.70 | | | 88.4 | | 2.27 | | | 4.9 | | |
| | | / Cloudy | Middle | 7.4 | 28.2 | 34.0 | 34.0 | 5.57 | 5.58 | 86.3 | 86.4 | 2.84 | 2.80 | 4.0 | | 3.5 | 2.9 | |
| | | | | | | 34.0 | | 5.58 | | 86.4 | | 2.76 | | 5.3 | | | | |
| | | Bottom | 13.3 | 28.2 | 34.0 | 34.0 | 5.56 | 5.56 | 5.56 | 5.56 | 86.1 | 86.1 | 3.52 | 3.54 | | 2.8 | | |
| | | | | | 34.0 | | 5.56 | | 86.1 | | 3.55 | | 4.1 | | | | | |
| 19/9/2024 | 12:01:04 | 30 | Surface | 1.0 | 29.0 | 33.2 | 33.2 | 5.90 | 5.89 | 5.86 | 92.1 | 92.0 | 3.00 | 2.98 | 3.15 | 4.4 | 3.7 | 4.3 |
| | | | | | | 33.2 | | 5.88 | | | 91.8 | | 2.96 | | | 3.0 | | |
| | | / Cloudy | Middle | 6.8 | 29.0 | 33.3 | 33.3 | 5.84 | 5.84 | 91.3 | 91.2 | 3.15 | 3.14 | 4.8 | | 4.3 | 3.8 | |
| | | | | | | 33.4 | | 5.83 | | 91.1 | | 3.13 | | 5.8 | | | | |
| | | Bottom | 12.1 | 29.0 | 33.5 | 33.5 | 5.22 | 5.23 | 5.23 | 5.23 | 81.6 | 81.8 | 3.27 | 3.32 | | 4.2 | | |
| | | | | | 33.5 | | 5.24 | | 82.0 | | 3.37 | | 5.0 | | | | | |
| 21/9/2024 | 13:52:18 | 27 | Surface | 1.0 | 29.1 | 27.8 | 27.8 | 5.85 | 5.83 | 5.73 | 88.9 | 88.6 | 2.83 | 2.85 | 3.08 | 4.8 | 4.5 | 4.6 |
| | | | | | | 27.9 | | 5.81 | | | 88.3 | | 2.86 | | | 4.2 | | |
| | | / Rain | Middle | 8.6 | 29.0 | 32.6 | 32.7 | 5.64 | 5.63 | 87.8 | 87.7 | 3.09 | 3.10 | 4.8 | | 5.0 | 5.2 | |
| | | | | | | 32.7 | | 5.62 | | 87.5 | | 3.11 | | 4.3 | | | | |
| | | Bottom | 16.1 | 29.0 | 33.4 | 33.4 | 5.39 | 5.38 | 5.38 | 5.38 | 84.3 | 84.1 | 3.28 | 3.30 | | 4.4 | | |
| | | | | | 33.5 | | 5.36 | | 83.9 | | 3.32 | | 4.4 | | | | | |
| 23/9/2024 | 15:26:47 | 26 | Surface | 1.0 | 28.9 | 33.3 | 33.2 | 5.79 | 5.81 | 5.70 | 90.4 | 90.7 | 2.49 | 2.50 | 3.06 | 4.3 | 3.8 | 4.4 |
| | | | | | | 33.1 | | 5.83 | | | 90.9 | | 2.50 | | | 3.2 | | |
| | | / Cloudy | Middle | 7.7 | 28.8 | 33.4 | 33.4 | 5.58 | 5.60 | 87.0 | 87.3 | 3.23 | 3.24 | 3.5 | | 4.1 | 4.7 | |
| | | | | | | 33.5 | | 5.61 | | 87.5 | | 3.25 | | 4.8 | | | | |
| | | Bottom | 14.3 | 28.8 | 33.9 | 34.0 | 5.56 | 5.49 | 5.49 | 5.49 | 86.9 | 85.9 | 3.42 | 3.43 | | 5.7 | | |
| | | | | | 34.0 | | 5.42 | | 84.8 | | 3.44 | | 5.3 | | | | | |
| 25/9/2024 | 8:04:33 | 28 | Surface | 1.0 | 28.8 | 32.2 | 32.2 | 6.16 | 6.17 | 6.01 | 95.4 | 95.5 | 1.94 | 1.95 | 2.83 | 3.8 | 3.7 | 2.5 |
| | | | | | | 32.2 | | 6.17 | | | 95.5 | | 1.96 | | | 3.6 | | |
| | | / Cloudy | Middle | 7.3 | 28.8 | 33.0 | 33.0 | 5.87 | 5.85 | 91.3 | 91.0 | 2.98 | 3.00 | 2.5 | | 2.5 | 2.4 | |
| | | | | | | 33.0 | | 5.83 | | 90.7 | | 3.01 | | 1.0 | | | | |
| | | Bottom | 13.5 | 28.8 | 33.2 | 33.2 | 5.77 | 5.77 | 5.77 | 5.77 | 89.8 | 89.8 | 3.54 | 3.55 | | 1.8 | | |
| | | | | | 33.2 | | 5.77 | | 89.8 | | 3.55 | | 1.4 | | | | | |
| 27/9/2024 | 10:23:15 | 30 | Surface | 1.0 | 29.1 | 32.8 | 32.8 | 5.85 | 5.86 | 5.82 | 81.3 | 81.4 | 1.85 | 1.87 | 2.58 | 3.5 | 3.9 | 2.3 |
| | | | | | | 32.8 | | 5.86 | | | 81.5 | | 1.88 | | | 4.3 | | |
| | | / Cloudy | Middle | 7.5 | 29.0 | 33.5 | 33.6 | 5.80 | 5.78 | 90.8 | 90.4 | 2.53 | 2.55 | 1.4 | | 1.3 | 1.2 | |
| | | | | | | 33.6 | | 5.75 | | 90.0 | | 2.57 | | 1.3 | | | | |
| | | Bottom | 13.9 | 28.9 | 34.1 | 34.2 | 5.63 | 5.63 | 5.63 | 5.63 | 88.3 | 88.3 | 3.33 | 3.32 | | 1.8 | | |
| | | | | | 34.3 | | 5.62 | | 88.2 | | 3.31 | | 1.6 | | | | | |
| 30/9/2024 | 11:08:14 | 30 | Surface | 1.0 | 29.0 | 34.1 | 34.1 | 6.20 | 6.26 | 5.98 | 97.4 | 98.3 | 2.55 | 2.56 | 2.97 | 3.5 | 3.9 | 3.8 |
| | | | | | | 34.1 | | 6.31 | | | 99.2 | | 2.57 | | | 4.3 | | |
| | | / Cloudy | Middle | 7.2 | 28.9 | 34.4 | 34.4 | 5.58 | 5.70 | 87.7 | 89.5 | 3.09 | 3.08 | 2.4 | | 3.7 | 2.4 | |
| | | | | | | 34.4 | | 5.81 | | 91.3 | | 3.06 | | 4.6 | | | | |
| | | Bottom | 13.2 | 28.9 | 34.5 | 34.5 | 5.48 | 5.49 | 5.49 | 5.49 | 86.1 | 86.2 | 3.29 | 3.29 | | 2.8 | | |
| | | | | | 34.5 | | 5.49 | | 86.2 | | 3.28 | | 3.7 | | | | | |

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

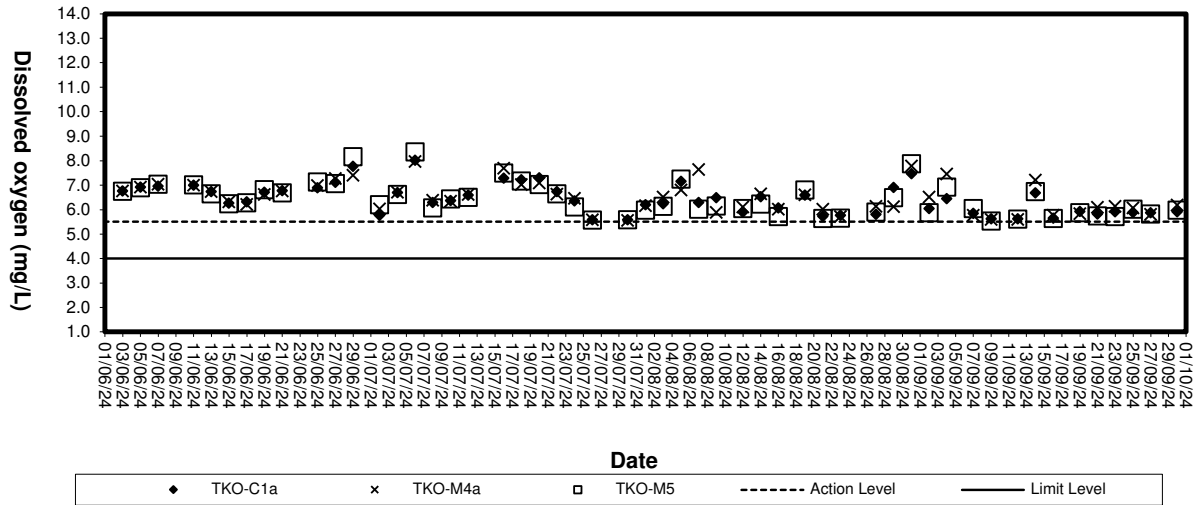
Appendix D5

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

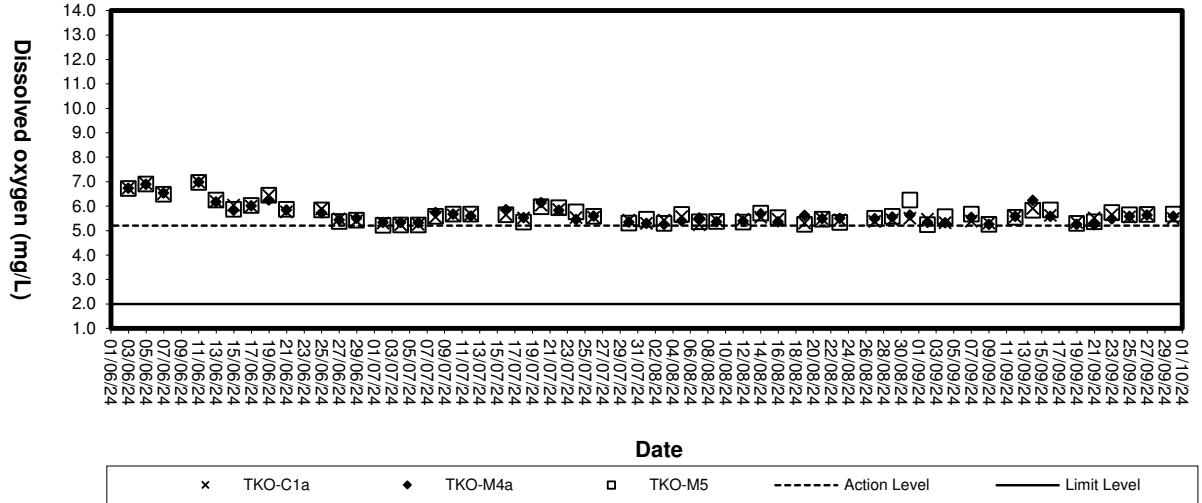
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide (3RS project)



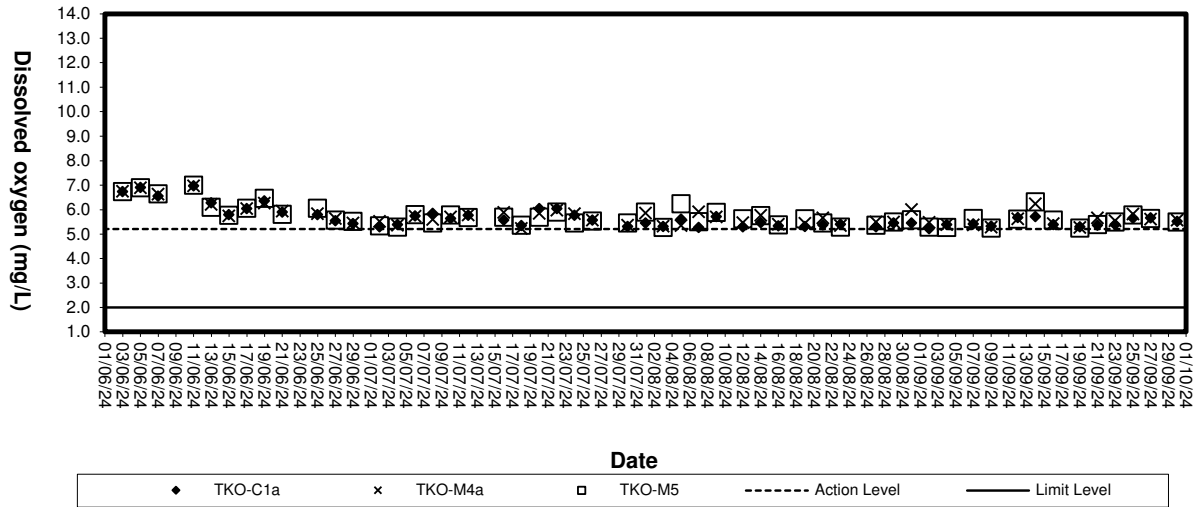
Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



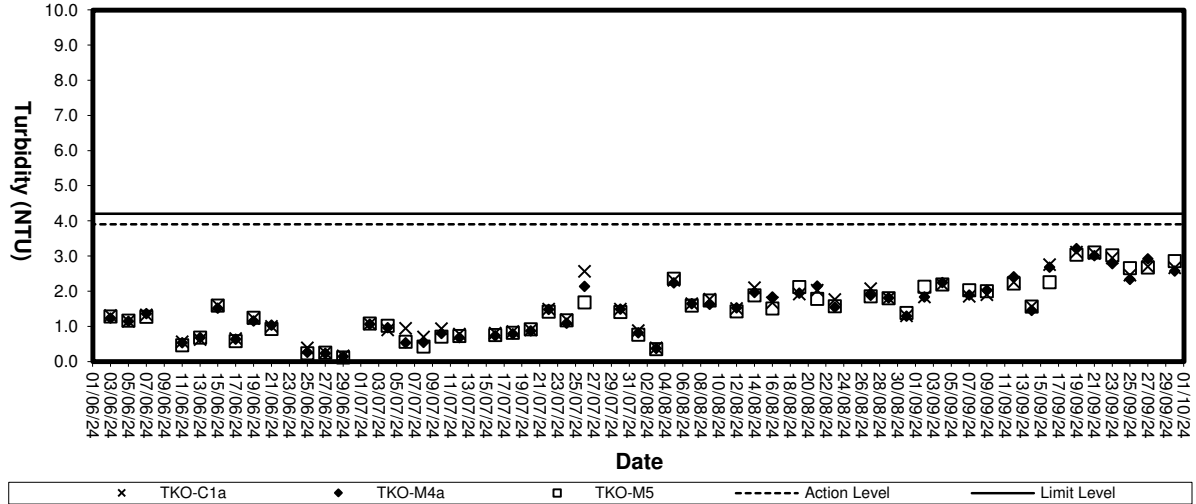
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



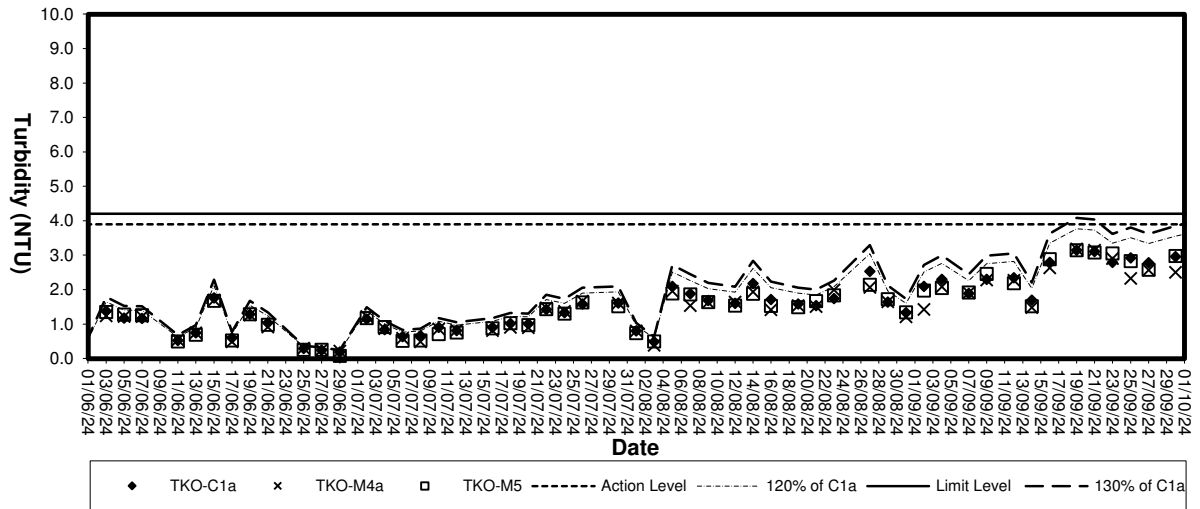
Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



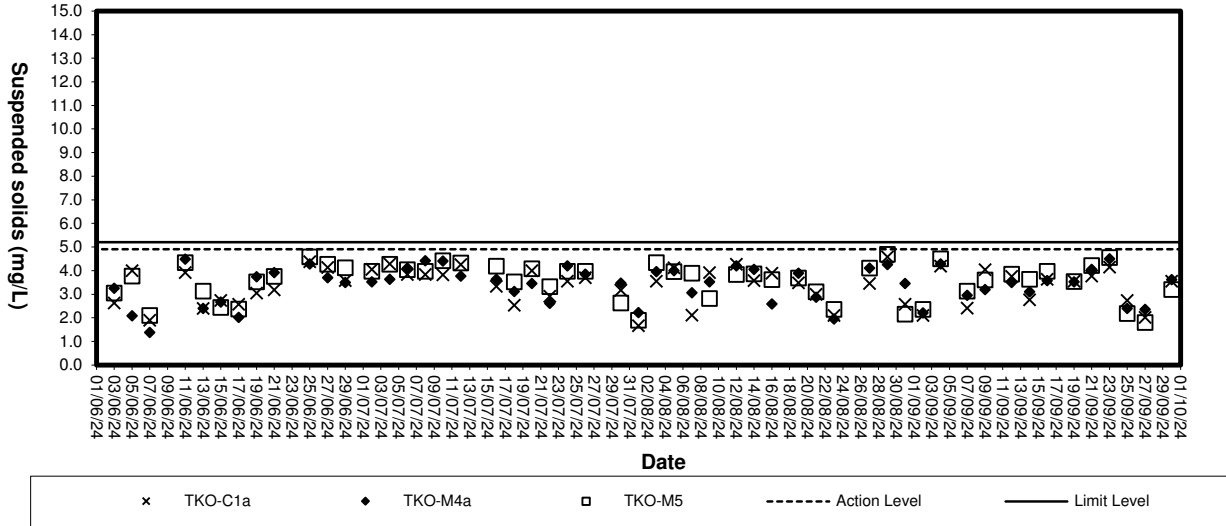
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



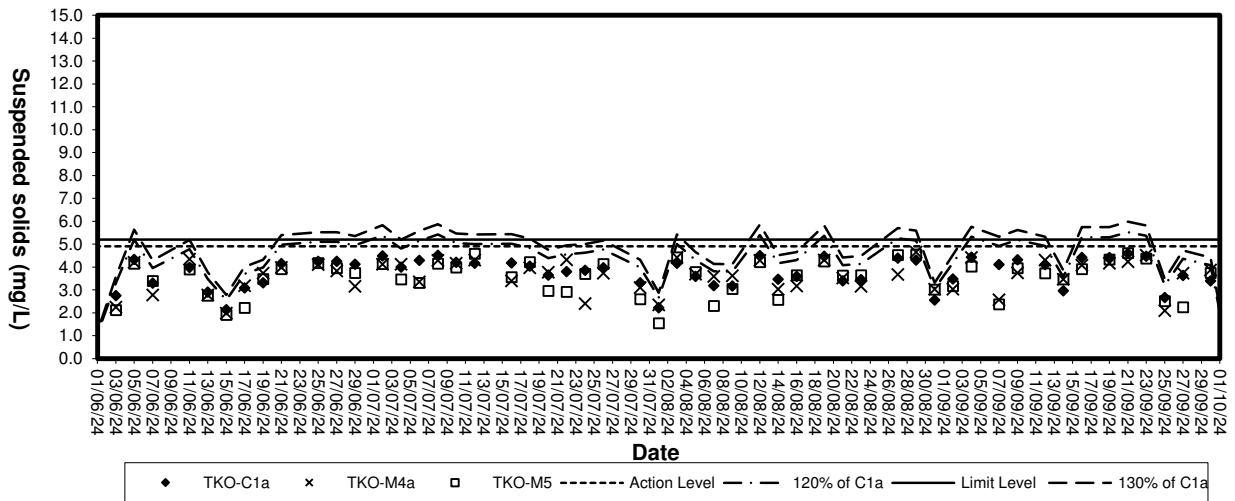
Turbidity (Depth-average) at Mid-Ebb Tide (3RS project)



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



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



Appendix E

Weather Condition

Daily Extract of Meteorological Observations , September 2024 - Tseung Kwan O

| Day | Mean Pressure (hPa) | Air Temperature | | | Mean Dew Point (deg. C) | Mean Relative Humidity (%) | Total Rainfall (mm) | Prevailing Wind Direction (degrees) | Mean Wind Speed (km/h) |
|-----|---------------------|-----------------------------|--------------|-----------------------------|-------------------------|----------------------------|---------------------|-------------------------------------|------------------------|
| | | Absolute Daily Max (deg. C) | Mean (deg.C) | Absolute Daily Min (deg. C) | | | | | |
| 1 | 1008.1 | 33 | 30.1 | 28.1 | 26.5 | 82 | Trace | 130 | 5.7 |
| 2 | 1007.6 | 34.2 | 30.6 | 28.4 | 26.2 | 78 | Trace | 160 | 4.3 |
| 3 | 1006.1 | 33.5 | 30.2 | 25.5 | 25.8 | 78 | 35.5 | 180 | 4.5 |
| 4 | 1002.3 | 32.5 | 29.7 | 26.5 | 24.7 | 75 | 0.6 | 70 | 14.5 |
| 5 | 999.5 | 33.4 | 30.4 | 26.2 | 24.5 | 71 | 21.5 | 50 | 53.8 |
| 6 | 1001.6 | 28.8 | 27.6 | 25.9 | 25.7 | 90 | 84.1 | 70 | 56.8 |
| 7 | 1007.1 | 30.9 | 29.2 | 27.9 | 26.9 | 88 | 5.8 | 100 | 31.5 |
| 8 | 1008.6 | 30.1 | 28.2 | 27.3 | 26.5 | 91 | 37.8 | 80 | 16.3 |
| 9 | 1007.7 | 30 | 27.8 | 26.3 | 25.1 | 85 | 13 | 80 | 11.7 |
| 10 | 1007.3 | 33.3 | 29.4 | 26.8 | 24.8 | 77 | - | 80 | 9.9 |
| 11 | 1008.1 | 34.3 | 30.4 | 28.2 | 25.4 | 76 | - | 40 | 6.7 |
| 12 | 1007 | 32.2 | 29.8 | 27.7 | 25.1 | 77 | - | 230 | 4.9 |
| 13 | 1005.1 | 34.5 | 30.4 | 28.2 | 24.9 | 73 | 0.1 | 70 | 7.3 |
| 14 | 1002.8 | 33.5 | 29.2 | 26.7 | 24.4 | 76 | 57.2 | 10 | 5.4 |
| 15 | 1002.3 | 31.7 | 29.3 | 27.4 | 24.6 | 76 | 2.4 | 360 | 6.4 |
| 16 | 1004 | 30.6 | 28.5 | 25.8 | 24.8 | 81 | 27.4 | 50 | 25.1 |
| 17 | 1004.1 | 35.7 | 30.8 | 26.3 | 25.5 | 74 | 16 | 40 | 20.6 |
| 18 | 1003.9 | 32.8 | 29.7 | 26.8 | 24.3 | 73 | Trace | 70 | 37.5 |
| 19 | 1003.2 | 33.6 | 30.2 | 28.7 | 25.2 | 75 | - | 70 | 26.4 |
| 20 | 1003.2 | 32.6 | 29.8 | 27.4 | 25.7 | 79 | 4.6 | 50 | 12.4 |
| 21 | 1003.5 | 28.8 | 27.7 | 25.7 | 25.8 | 90 | 72.9 | 80 | 10.9 |
| 22 | 1005.8 | 30.1 | 27.1 | 24.4 | 24.8 | 88 | 32.1 | 360 | 22.6 |
| 23 | 1009 | 28 | 25.7 | 23.4 | 23.9 | 90 | 24.9 | 10 | 23.3 |
| 24 | 1010.6 | 28.2 | 26.7 | 25.2 | 25.2 | 91 | 75 | 190 | 11.7 |
| 25 | 1011.2 | 31.4 | 28.5 | 26.9 | 25.2 | 83 | 5.4 | 240 | 11 |
| 26 | 1011.2 | 31.6 | 29.4 | 27.4 | 25.1 | 78 | - | 250 | 16.4 |
| 27 | 1010.1 | 32.4 | 29.9 | 28.1 | 25.1 | 76 | - | 250 | 20.6 |
| 28 | 1009.2 | 32.1 | 29.1 | 27.5 | 25.4 | 80 | 1.3 | 80 | 16.8 |
| 29 | 1008.6 | 31.8 | 29.2 | 26.6 | 24.4 | 76 | 3.3 | 100 | 8 |
| 30 | 1005.5 | 33.3 | 30.5 | 27.9 | 24.4 | 71 | - | 280 | 13.2 |
| | | | | | | | | | |

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

Appendix F

Event-Action Plans

EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

ACTION

IC(E)

ER

Contractor

ET Leader

| EVENT | ACTION LEVEL | LIMIT LEVEL | ACTION |
|--|--|---|--|
| <ol style="list-style-type: none"> Exceedance for one sample | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> Check monitoring data submitted by the ET Check contractor's working method | <ol style="list-style-type: none"> Notify Contractor Rectify any unacceptable practise Amend working methods if appropriate |
| <ol style="list-style-type: none"> Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> Identify source, investigate the causes of exceedance and propose remedial measures Inform IC(E) and Contractor Repeat measurements to confirm finding Increase monitoring frequency to daily Discuss with IC(E) and Contractor on remedial actions If exceedance continues, arrange meeting with IC(E) and ER. If exceedance stops, cease additional monitoring | <ol style="list-style-type: none"> Check monitoring data submitted by the ET Leader Check the Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures | <ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate |
| <ol style="list-style-type: none"> Exceedance for one sample | <ol style="list-style-type: none"> Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, Contractor and EPD Repeat measurement to confirm finding Increase monitoring frequency to daily Assess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results | <ol style="list-style-type: none"> Check monitoring data submitted by the ET Leader Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures | <ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented 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 Amend proposal if appropriate. |

EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

| EVENT | ACTION | | | Contractor |
|---|---|--|--|--|
| | ET Leader | IC(E) | ER | |
| 2. Exceedance for two or more consecutive samples | <ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Notify IC(E), ER, EPD and Contractor 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 5. Carry out analysis of contractor's working procedures to determine possible mitigation to be implemented 6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results 8. If exceedance stops, cease additional monitoring | <ol style="list-style-type: none"> 1. Discuss amongst ER, ET and Contractor on the potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Supervise the implementation of remedial measures | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented 4. Ensure remedial measures are properly implemented 5. If exceedances continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedances 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated |

EVENT/ACTION PLAN FOR NOISE EXCEEDANCE

| EVENT | ACTION | | | |
|--------------|---|--|---|--|
| | ET Leader | IC(E) | ER | Contractor |
| Action Level | <ol style="list-style-type: none"> 1. Notify the IC(E) and the Contractor. 2. Carry out investigation. 3. Report the results of investigation to the IC(E) and the Contractor. 4. Discuss with the Contractor and formulate remedial measures. 5. Increase monitoring frequency to check mitigation effectiveness | <ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly. 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. | <ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IC(E). 2. Implement noise mitigation proposals. |
| Limit Level | <ol style="list-style-type: none"> 1. Notify the IC(E), the ER, the EPD and the Contractor. 2. Identify source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform the IC(E), the ER and the EPD the causes & actions taken for the exceedances. 7. Assess effectiveness of Contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results 8. If exceedance due to the construction works stops, cease additional monitoring | <ol style="list-style-type: none"> 1. Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. 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. | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedances is abated. |

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

| Event | ACTION | | | |
|--|--|--|---|---|
| | ET Leader | Contractor | ER | IEC |
| <p>Action level being exceeded by one sampling day</p> | <ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Repeat in-situ measurement to confirm findings; 3. Notify Contractor in writing within 24 hours of identification of the exceedance 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with Contractor if exceedance is due to the construction works within 4 working days 8. Repeat measurement on next day of exceedance if exceedance is due to the construction works | <ol style="list-style-type: none"> 1. Notify the ER and IEC in writing within 24 hours of identification of exceedance 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Submit investigation report to IEC and ER within 3 working days of the identification of an exceedance 5. Consider changes of working method if exceedance is due to the construction works 6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER if exceedance is due to the construction works within 4 working days of identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale | <ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Require contractor to propose remedial measures for the analysed problem if related to the construction works 4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the mitigation measure | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ET, ER and Contractor on the mitigation measures 4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly 5. Supervise the implementation of mitigation measures |

EVENT AND ACTION PLAN FOR WATER QUALITY

| Event | ACTION | | | IEC |
|---|--|--|---|---|
| | ET Leader | Contractor | ER | |
| <p>Action level being exceeded by more than one consecutive sampling days</p> | <ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Repeat in-situ measurement to confirm findings 3. Notify Contractor in writing within 24 hours of identification 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with IEC and Contractor within 4 working of identification of an exceedance 8. Ensure mitigation measures are implemented; 9. Prepare to increase the monitoring frequency to daily; 10. Repeat measurement on next day of exceedance. | <ol style="list-style-type: none"> 1. Notify IEC and ER in writing within 24 hours of identification of exceedance 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance 6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale | <ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Require contractor to propose remedial measures for the analysed problem if related to the construction works 4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the mitigation measure | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ET, ER and Contractor on the mitigation measures. 4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly 5. Assess the effectiveness of the implemented mitigation measures. |

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

| Event | ACTION | | | IEC |
|--|--|---|--|--|
| | ET Leader | Contractor | ER | |
| Limit level being exceeded by one sampling day | <ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Notify Contractor in writing within 24 hours of identification of the exceedance 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with IEC, ER and Contractor within 4 working of identification of an exceedance 8. Ensure mitigation measures are implemented; 9. Increase the monitoring frequency to daily until no exceedance of Limit Level. | <ol style="list-style-type: none"> 1. Notify IEC and ER in writing; within 24 hours of the identification of the exceedance 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance 6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of the identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale | <ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to critically review the working methods; 4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ET, ER and Contractor on the mitigation measures. 4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly. 5. Assess the effectiveness of the implemented mitigation measures |

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

| Event | ACTION | | | |
|---|--|--|---|---|
| | ET Leader | Contractor | ER | IEC |
| Limit Level being exceeded by more than one consecutive sampling days | <ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Notify Contractor in writing within 24 hours of identification of the exceedance 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with IEC, ER and Contractor; 8. Ensure mitigation measures are implemented; 9. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days. | <ol style="list-style-type: none"> 1. Notify ER and IEC in writing within 24 hours of the identification of the exceedance and Rectify unacceptable practice; 2. Check all plant and equipment; 4. Consider changes of working methods; 8. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance 5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days; 6. Implement the agreed mitigation measures within reasonable time scale 7. As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. | <ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to critically review the working methods; 6. Ensure remedial measures are properly implemented 4. Assess the effectiveness of the implemented mitigation measures; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level. | <ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ER, ET and Contractor on the mitigation measures. 4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly. 5. Assess the effectiveness of the implemented mitigation measures. |

Appendix G

Works Programme

| ID | Task Name | Start | Finish | Duration | Predecessors | time risk allowances | Qtr 3, 2024 | | |
|----|---|-------------|-------------|-----------|--------------|----------------------|-------------|-----|------|
| | | | | | | | Aug | Sep | Oct |
| 1 | Contract duration of Contract CV/2023/10 | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | | 8/24 | | 31/7 |
| 2 | Contract date, Date of Letter of Acceptance | Thu 11/7/24 | Thu 11/7/24 | 1 day | | | | | |
| 3 | Starting Date of the Works | Sun 4/8/24 | Sun 4/8/24 | 1 day | | | 4/8/2024 | | |
| 4 | Starting Date of Section 1 of the Works | Sun 4/8/24 | Sun 4/8/24 | 1 day | | | 4/8/2024 | | |
| 5 | Starting Date of Section 2 of the Works | Sun 4/8/24 | Sun 4/8/24 | 1 day | | | 4/8/2024 | | |
| 6 | Starting Date of Section 3 of the Works | Sun 4/8/24 | Sun 4/8/24 | 1 day | | | 4/8/2024 | | |
| 7 | Date for Completion of the Works | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 8 | Completion Date of Section 1 of the Works | Sat 31/7/27 | Sat 31/7/27 | 1 day | 4SF+1092 da | | | | |
| 9 | Completion Date of Section 2 of the Works | Sat 31/7/27 | Sat 31/7/27 | 1 day | 5SF+1092 da | | | | |
| 10 | Completion Date of Section 3 of the Works | Sat 31/7/27 | Sat 31/7/27 | 1 day | 6SF+1092 da | | | | |
| 11 | Planned completion dates | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 12 | Planned completion date of Section 1 | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 13 | Planned completion date of Section 2 | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 14 | Planned completion date of Section 3 | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 15 | Access Date of the Site | Sun 4/8/24 | Sun 4/8/24 | 1 day | | | 4/8/2024 | | |
| 16 | Portion A2, A3a, A3b, A3c, A4a1, A4a2, A4b1, A4b2, A5a, A5b, A5c, A7a, A7b, A7c and A10 (within 60 days after starting date or later date notified by the Project Manager with 2 days advance notice) | Sun 4/8/24 | Sun 4/8/24 | 1 day | | | 4/8/2024 | | |
| 17 | Portion B1, B3, B6a, B6b, B7 and C (within 60 days after starting date or later date notified by the Project Manager with 2 days advance notice) | Sun 4/8/24 | Sun 4/8/24 | 1 day | | | 4/8/2024 | | |
| 18 | Portion A1, A9, A9a and B6c (7 day's advance notice after starting date) | Sun 4/8/24 | Sun 4/8/24 | 1 day | | | 4/8/2024 | | |
| 19 | Hand back of the Site | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 20 | Portion A2, A3a, A3b, A3c, A4a1, A4a2, A4b1, A4b2, A5a, A5b, A5c, A7a, A7b, A7c and A10 of the site on the completion date of the section 1 of the works (or at an earlier date notified by the Project Manager with 30 days' advance notice) | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 21 | Portion A1, A9 and A9a of the site if the Contractor has accessed to them ,on the completion date of the section 1 of the works (or at an earlier date as notified by the Project Manager with 30 days' advance notice) | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 22 | Portion B1, B3, B6a, B6b, B7 and C of the site on the completion date of the section 2 of the works (or at an earlier date as notified by the Project Manager with 30 days' advance notice) | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 23 | Portion B6c of the site if the Contractor has accessed to them ,on the completion date of the section 2 of the works (or at an earlier date as notified by the Project Manager with 30 days' advance notice) | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 24 | Portions C of the Site on the completion date of the section 2 of the works (or at an earlier date as notified by the Project Manager with 30 days' advance notice) | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 25 | Section 1 of the Works - Tseung Kwan O Area 137 Fill Bank | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 4SS | | | | |
| 26 | Taking over the existing facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site | Sun 4/8/24 | Sun 4/8/24 | 1 day | 4SS | 0 | 4/8/2024 | | |
| 27 | Operation of the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 26SS | 0 | | | |
| 28 | Operation and maintenance of the surveillance system within Portion A of the Site | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 26SS | 0 | | | |
| 29 | Operation and maintenance of the existing tipping halls at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 26SS | 0 | | | |
| 30 | Provision, operation and maintenance of the Crushing Plant at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 26SS | 0 | | | |
| 31 | Operation and maintenance of the dewatering plant at the Tseung Kwan O Area 137 Fill Bank within portion A of the Site Facility to the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site. | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 26SS | 0 | | | |
| 32 | Design, construction, operation and maintenance of 3 nos. new tipping halls with access ramp, new barge handling area, and associated seawalls within Portion A of the Site as and when instructed by the Project Manager. | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 26SS | | | | |
| 33 | Submission of design proposals to Project Manager for acceptance | Sun 4/8/24 | Sun 1/12/24 | 120 days | | 0 | | | |

Project: 3 months rolling programme (Aug 2024 to Oct 2024)
Date: 16/8/2024
Revision: Rev_01

| | | | | | | | | | |
|-----------|--|--------------------|--|-----------------------|--|----------------|--|--------------------|--|
| Task | | Project Summary | | Inactive Summary | | Manual Summary | | External Milestone | |
| Split | | External Tasks | | Manual Task | | Start-only | | Progress | |
| Milestone | | External Milestone | | Duration-only | | Finish-only | | Deadline | |
| Summary | | Inactive Milestone | | Manual Summary Rollup | | External Tasks | | | |

| ID | Task Name | Start | Finish | Duration | Predecessors | time risk allowances | Qtr 3, 2024 | | |
|----|---|--------------|--------------|----------|--------------|----------------------|-------------|-----|-----|
| | | | | | | | Aug | Sep | Oct |
| 34 | Construction new tipping halls with access ramp, new barge handling area, and associated seawalls within Portion A of the Site | Mon 2/12/24 | Tue 29/7/25 | 240 days | 33 | 0 | 7/8/24 | | |
| 35 | Operation and maintenance the new berthing facilities | Wed 30/7/25 | Sat 31/7/27 | 732 days | 34 | | | | |
| 36 | Demolition & reconstruction/relocation of existing facilities within Portion A of the Site above as and when instructed by the Project Manager | Sun 4/8/24 | Thu 30/1/25 | 180 days | 26SS | | | | |
| 37 | Project Manager's Principal Site Office and Secondary Site Office, and Temporary Accommodation for the Contractor | Sun 4/8/24 | Fri 1/11/24 | 90 days | | | | | |
| 38 | Preparing and submitting a proposal for project manager for acceptance | Sun 4/8/24 | Sat 17/8/24 | 14 days | | 1 | | | |
| 39 | Construct a new Project Manager's Secondary Site Office | Sun 18/8/24 | Fri 18/10/24 | 62 days | 38 | 0 | | | |
| 40 | Relocate furniture, office equipment and computer facilities previously installed at the existing Project Manager's Site Office to the new office | Sat 19/10/24 | Fri 1/11/24 | 14 days | 39 | 0 | | | |
| 41 | Dismantle and re-assemble the existing Project Manager's Principal Site Office to a new location | Sun 18/8/24 | Fri 25/10/24 | 69 days | 38 | 0 | | | |
| 42 | Demolish the existing Secondary Site Office. | Sat 26/10/24 | Fri 1/11/24 | 7 days | 41 | 0 | | | |
| 43 | Construction of Temporary Accommodation for the Contractor | Sun 18/8/24 | Fri 1/11/24 | 76 days | 38 | 1 | | | |
| 44 | New Combined Reception and Exit Offices | Sun 4/8/24 | Sun 1/12/24 | 120 days | | | | | |
| 45 | Preparing and submitting a proposal to project manager for acceptance | Sun 4/8/24 | Sat 17/8/24 | 14 days | | 0 | | | |
| 46 | Construction of the new Combined Reception and Exit Offices and new weighbridges | Sun 18/8/24 | Thu 21/11/24 | 96 days | 45 | 0 | | | |
| 47 | Relocate the existing CWDCMIS to the new CREO office | Fri 22/11/24 | Sun 1/12/24 | 10 days | 46 | 0 | | | |
| 48 | Construction Concrete Paved Roads to the new Combined Reception and Exit | Sun 4/8/24 | Sun 1/12/24 | 120 days | | | | | |
| 49 | Preparing and submitting a proposal to project manager for acceptance | Sun 4/8/24 | Sat 17/8/24 | 14 days | | 0 | | | |
| 50 | Construction of the concrete pave roads | Sun 18/8/24 | Sun 1/12/24 | 106 days | 49 | 0 | | | |
| 51 | New Integrated Public Fill Reception Platform | Sun 4/8/24 | Sun 1/12/24 | 120 days | | | | | |
| 52 | Preparing and submitting a proposal to project manager for acceptance | Sun 4/8/24 | Sat 17/8/24 | 14 days | | 0 | | | |
| 53 | Construction of the New Integrated Public Fill Reception Platform | Sun 18/8/24 | Sun 1/12/24 | 106 days | 52 | 0 | | | |
| 54 | Bituminous Materials paved Roads to the Integrated Public Fill Reception Platform | Sun 4/8/24 | Sun 1/12/24 | 120 days | | | | | |
| 55 | Preparing and submitting a proposal to project manager for acceptance | Sun 4/8/24 | Sat 17/8/24 | 14 days | | 0 | | | |
| 56 | Construction of the Bituminous Materials paved Roads to the Integrated Public Fill Reception | Sun 18/8/24 | Sun 1/12/24 | 106 days | 55 | 0 | | | |
| 57 | Relocation of Dewatering Plant and construction of reinforced concrete slurry receiving tank | Sun 4/8/24 | Thu 30/1/25 | 180 days | | | | | |
| 58 | Preparing and submitting a proposal to project manager for acceptance | Sun 4/8/24 | Sat 17/8/24 | 14 days | | | | | |
| 59 | Relocation of the 3 number of existing Dewatering Plant phase by phase | Sun 18/8/24 | Thu 16/1/25 | 152 days | 58 | | | | |
| 60 | Construction of reinforced concrete slurry receiving tank | Sun 18/8/24 | Thu 16/1/25 | 152 days | 58 | | | | |
| 61 | Demolish the existing structures at the Dewatering Plant | Fri 17/1/25 | Thu 30/1/25 | 14 days | 59 | | | | |
| 62 | Construction ,Relocation and demolition of Wash House | Sun 4/8/24 | Sun 1/12/24 | 120 days | | | | | |
| 63 | Preparing and submitting a proposal to project manager for acceptance | Sun 4/8/24 | Sat 17/8/24 | 14 days | | | | | |
| 64 | Construction of a new wash house | Sun 18/8/24 | Sun 24/11/24 | 99 days | 63 | | | | |
| 65 | Demolish the existing Wash House A1 | Mon 25/11/24 | Sun 1/12/24 | 7 days | 64 | | | | |
| 66 | Relocate the existing Wash House A2 and Wash House A3 to new location | Sun 18/8/24 | Sun 1/12/24 | 106 days | 63 | | | | |
| 67 | Wheel Washing Bays | Sun 4/8/24 | Sun 1/12/24 | 120 days | | | | | |
| 68 | Preparing and submitting a proposal to project manager for acceptance | Sun 4/8/24 | Sat 17/8/24 | 14 days | | | | | |
| 69 | Construction of 2 nos of Wheel Washing Bays | Sun 18/8/24 | Sun 24/11/24 | 99 days | 68 | | | | |
| 70 | Demolish the existing wash bays | Mon 25/11/24 | Sun 1/12/24 | 7 days | 69 | | | | |
| 71 | Construction of new Recorder Houses | Sun 4/8/24 | Sun 1/12/24 | 120 days | | | | | |
| 72 | Preparing and submitting a proposal to project manager for acceptance | Sun 4/8/24 | Sat 17/8/24 | 14 days | | | | | |
| 73 | Construction of two new Recorder Houses | Sun 18/8/24 | Sun 24/11/24 | 99 days | 72 | | | | |

| | | | | | | | | | | |
|---|-----------|--|--------------------|--|-----------------------|--|----------------|--|--------------------|--|
| Project: 3 months rolling programme (Aug 2024 to Oct 2024) Date: 16/8/2024 Revision: Rev_01 | Task | | Project Summary | | Inactive Summary | | Manual Summary | | External Milestone | |
| | Split | | External Tasks | | Manual Task | | Start-only | | Progress | |
| | Milestone | | External Milestone | | Duration-only | | Finish-only | | Deadline | |
| | Summary | | Inactive Milestone | | Manual Summary Rollup | | External Tasks | | | |

| ID | Task Name | Start | Finish | Duration | Predecessors | time risk allowances | Qtr 3, 2024 | | |
|-----|---|--------------|--------------|-----------|--------------|----------------------|-------------|-----|-----|
| | | | | | | | Aug | Sep | Oct |
| 74 | Demolition of two existing recorder houses A1 and A4 | Mon 25/11/24 | Sun 1/12/24 | 7 days | 73 | | 8/24 | | |
| 75 | 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 | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 26SS | | | | |
| 76 | Handing over the facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site to the Client. | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 77 | Planned Completion Date (Section 1) | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 78 | Section 2 of the Works - Tuen Mun Area 38 Fill Bank | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | | | | |
| 79 | Taking over the existing facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site | Sun 4/8/24 | Sun 4/8/24 | 1 day | 0 | | 4/8/2024 | | |
| 80 | Operation of the Tuen Mun Area 38 Fill Bank within Portion B of the Site | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 0 | | | | |
| 81 | Operation and maintenance of the surveillance system within Portion B of the Site | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 0 | | | | |
| 82 | Operation and maintenance of the existing tipping halls at the Tuen Mun Area 38 Fill Bank within Portion B of the Site | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 0 | | | | |
| 83 | Operation and Maintenance of the Crushing Plant at the Tuen Mun Area 38 Fill Bank within Portion B of the Site | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 0 | | | | |
| 84 | Operation and maintenance of glass cullet storage compartment at the Tuen Mun Area 38 Fill Bank within Portion B of the Site | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 0 | | | | |
| 85 | Collection of fill materials delivered by Others vide marine transportation through the berthing facility within the site at Tsang Tsui and disposal of the fill materials collected to areas within the Site at Tsang Tsui as agreed by the Project Manager. | Sun 4/8/24 | Sat 31/7/27 | 1092 days | 0 | | | | |
| 86 | Handing over the facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site and at Tsang Tsui within Portion C of the Site to the Client. | Sat 31/7/27 | Sat 31/7/27 | 1 day | 0 | | | | |
| 87 | Planned Completion Date (Section 2) | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |
| 88 | Section 3 of the Works - Designated Reclamation Sites in the Mainland | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | | | | |
| 89 | Collection and delivery of 34 million tonnes of Public Fill by vessels from the Tseung Kwan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Designated Reclamation Sites in the Mainland. | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | | | | |
| 90 | Deliver of public fill to mainland in year 2024 | Sun 4/8/24 | Tue 31/12/24 | 150 days | | | | | |
| 91 | Installing and arranging Front End Mobile Unit (FEMU) onto the proposed vessels | Thu 11/7/24 | Sat 3/8/24 | 24 days | 0 | | | | |
| 92 | Submitting application documents to EPD for application of dumping permits | Thu 1/8/24 | Thu 1/8/24 | 1 day | | | | | |
| 93 | Obtaining the dumping permit from EPD (assumed on 30/09/2024) | Fri 2/8/24 | Sat 3/8/24 | 2 days | 92 | 0 | | | |
| 94 | Submitting application documents to the Employer for the application of the dumping permit of waste at the sea | Thu 1/8/24 | Thu 1/8/24 | 1 day | | | | | |
| 95 | Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on 30/09/2024) | Fri 2/8/24 | Sat 3/8/24 | 2 days | 94 | 0 | | | |
| 96 | Obtaining all necessary permits, licenses, approvals and consents | Thu 1/8/24 | Sat 3/8/24 | 3 days | | 0 | | | |
| 97 | Collection and delivery of 5,000,000 tonnes of Public Fill | Sun 4/8/24 | Tue 31/12/24 | 150 days | 93,95,96 | 2 | | | |
| 98 | Deliver of public fill to mainland in year 2025 | Wed 1/1/25 | Wed 31/12/25 | 365 days | | | | | |
| 99 | Submitting application documents to EPD for application of dumping permits | Wed 18/12/24 | Wed 18/12/24 | 1 day | | | | | |
| 100 | Obtaining the dumping permit from EPD (assumed on 31/12/24) | Thu 19/12/24 | Tue 31/12/24 | 13 days | 99 | 0 | | | |
| 101 | Submitting application documents to the Employer for the application of the dumping permit of waste at the sea | Wed 20/11/24 | Wed 20/11/24 | 1 day | | | | | |
| 102 | Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on 31/12/24) | Thu 21/11/24 | Tue 31/12/24 | 41 days | 101 | 0 | | | |
| 103 | Obtaining all necessary permits, licenses, approvals and consents | Sat 21/12/24 | Tue 31/12/24 | 11 days | | 0 | | | |
| 104 | Collection and delivery of 11,400,000 tonnes of Public Fill | Wed 1/1/25 | Wed 31/12/25 | 365 days | 103,100,102 | 2 | | | |
| 105 | Deliver of public fill to mainland in year 2026 | Thu 1/1/26 | Thu 31/12/26 | 365 days | | | | | |
| 106 | Submitting application documents to EPD for application of dumping permits | Thu 18/12/25 | Thu 18/12/25 | 1 day | | | | | |
| 107 | Obtaining the dumping permit from EPD (assumed on 31/12/25) | Fri 19/12/25 | Wed 31/12/25 | 13 days | 106 | 0 | | | |

Project: 3 months rolling programme (Aug 2024 to Oct 2024)
Date: 16/8/2024
Revision: Rev_01

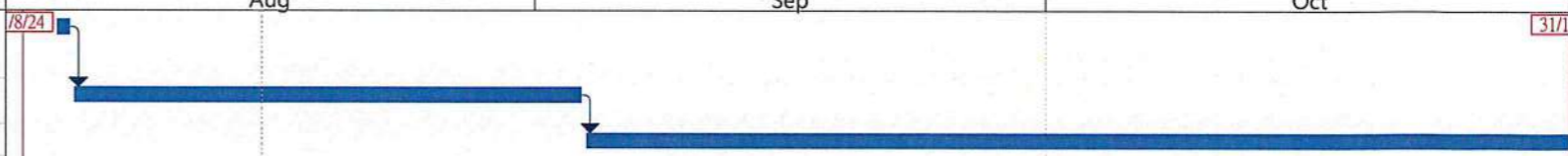
| | | | | | | | | | |
|-----------|--|--------------------|--|-----------------------|--|----------------|--|--------------------|--|
| Task | | Project Summary | | Inactive Summary | | Manual Summary | | External Milestone | |
| Split | | External Tasks | | Manual Task | | Start-only | | Progress | |
| Milestone | | External Milestone | | Duration-only | | Finish-only | | Deadline | |
| Summary | | Inactive Milestone | | Manual Summary Rollup | | External Tasks | | | |

| ID | Task Name | Start | Finish | Duration | Predecessors | time risk allowances | Qtr 3, 2024 | | |
|-----|---|--------------|--------------|-----------|---------------|----------------------|-------------|-----|-----|
| | | | | | | | Aug | Sep | Oct |
| 108 | Submitting application documents to the Employer for the application of the dumping permit of waste at the sea | Thu 20/11/25 | Thu 20/11/25 | 1 day | | | 18/24 | | |
| 109 | Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on | Fri 21/11/25 | Wed 31/12/25 | 41 days | 108 | 0 | | | |
| 110 | Obtaining all necessary permits, licenses, approvals and consents | Sun 21/12/25 | Wed 31/12/25 | 11 days | | 0 | | | |
| 111 | Collection and delivery of 11,400,000 tonnes of Public Fill | Thu 1/1/26 | Thu 31/12/26 | 365 days | 107,109,110 | 2 | | | |
| 112 | Deliver of public fill to mainland in year 2027 | Fri 1/1/27 | Sat 31/7/27 | 212 days | | | | | |
| 113 | Submitting application documents to EPD for application of dumping permits | Fri 18/12/26 | Fri 18/12/26 | 1 day | | | | | |
| 114 | Obtaining the dumping permit from EPD (assumed on 31/12/26) | Sat 19/12/26 | Thu 31/12/26 | 13 days | 113 | 0 | | | |
| 115 | Submitting application documents to the Employer for the application of the dumping permit of waste at the sea | Fri 20/11/26 | Fri 20/11/26 | 1 day | | | | | |
| 116 | Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on | Sat 21/11/26 | Thu 31/12/26 | 41 days | 115 | 0 | | | |
| 117 | Obtaining all necessary permits, licenses, approvals and consents | Mon 21/12/26 | Thu 31/12/26 | 11 days | | 0 | | | |
| 118 | Collection and delivery of 6,200,000 tonnes of Public Fill | Fri 1/1/27 | Sat 31/7/27 | 212 days | 114,116,117 | 2 | | | |
| 119 | Removal, excavation and deposition of stockpiled and/or deposited Public Fill within the Designated Reclamation Sites in the Mainland | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | | | | |
| 120 | Removal, excavation and deposition of stockpiled and/or deposited public fill | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | 0 | | | |
| 121 | Operation and maintenance of the existing navigation channel and turning basins in association with the existing berthing facility at Zone E of the Designated Reclamation Sites in the Mainland. | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | | | | |
| 122 | Operation and maintenance of the existing navigation channel and turning basins | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | 0 | | | |
| 123 | Design, construction, operation and maintenance of the new navigation channel and turning basins in association with the new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland. | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | | | | |
| 124 | Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B | Sun 4/8/24 | Sun 4/8/24 | 1 day | | 0 | | | |
| 125 | Design submission of new navigation channel and turning basins and obtaining all necessary design approvals and consents | Mon 5/8/24 | Thu 3/10/24 | 60 days | 124 | 0 | | | |
| 126 | Construction of the new navigation channel | Wed 4/9/24 | Fri 31/1/25 | 150 days | 125SS+30 d& 2 | | | | |
| 127 | Construction of the new turning basins | Tue 3/12/24 | Fri 31/1/25 | 60 days | 126SS+90 d& 1 | | | | |
| 128 | Obtaining the construction completion certificate of new navigation channel and turning basins | Sat 1/2/25 | Sat 1/2/25 | 1 day | 127 | 0 | | | |
| 129 | Operation and maintenance of the new navigation channel and turning basins | Sun 2/2/25 | Sat 31/7/27 | 910 days | 128 | 0 | | | |
| 130 | Design, construction, operation and maintenance of new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland. | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | | | | |
| 131 | Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B | Sun 4/8/24 | Sun 4/8/24 | 1 day | | | | | |
| 132 | Design submission of new berthing facilities and obtaining all necessary design approvals and consents | Mon 5/8/24 | Thu 3/10/24 | 60 days | 131 | 0 | | | |
| 133 | Precasting cassion units and coping units | Wed 4/9/24 | Mon 2/12/24 | 90 days | 132SS+30 d& 1 | | | | |
| 134 | Construction of rubber mound foundation | Fri 4/10/24 | Wed 1/1/25 | 90 days | 132SS+60 d& 2 | | | | |
| 135 | Installation of cassion units and coping units | Sun 3/11/24 | Fri 31/1/25 | 90 days | 132SS+90 d& 2 | | | | |
| 136 | Backfilling and in-situ concreting | Tue 3/12/24 | Fri 31/1/25 | 60 days | 132SS+120 c 2 | | | | |
| 137 | Installation of rubber fenders and bollards | Thu 2/1/25 | Fri 31/1/25 | 30 days | 132SS+150 c 2 | | | | |
| 138 | Obtaining the construction completion certificate new berthing facilities | Sat 1/2/25 | Sat 1/2/25 | 1 day | 137 | 0 | | | |
| 139 | Operation and maintenance of new berthing facilities | Sun 2/2/25 | Sat 31/7/27 | 910 days | 138 | | | | |
| 140 | Design and construction of seawalls (approximate 4,400m) in association with new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland. | Sun 4/8/24 | Sat 31/7/27 | 1092 days | | | | | |

Project: 3 months rolling programme (Aug 2024 to Oct 2024)
Date: 16/8/2024
Revision: Rev_01

| | | | | | | | | | |
|-----------|--|--------------------|--|-----------------------|--|----------------|--|--------------------|--|
| Task | | Project Summary | | Inactive Summary | | Manual Summary | | External Milestone | |
| Split | | External Tasks | | Manual Task | | Start-only | | Progress | |
| Milestone | | External Milestone | | Duration-only | | Finish-only | | Deadline | |
| Summary | | Inactive Milestone | | Manual Summary Rollup | | External Tasks | | | |

| ID | Task Name | Start | Finish | Duration | Predecessors | time risk allowances | Qtr 3, 2024 | | |
|-----|--|-------------|-------------|-----------|--------------|----------------------|-------------|-----|-----|
| | | | | | | | Aug | Sep | Oct |
| 141 | Obtaining the permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B | Sun 4/8/24 | Sun 4/8/24 | 1 day | | 0 | 4/8/24 | | |
| 142 | Design submission of seawalls and obtaining all necessary design approvals and consents | Mon 5/8/24 | Tue 3/9/24 | 30 days | 141 | 0 | | | |
| 143 | Construction of seawalls (approx. 4400m) | Wed 4/9/24 | Fri 30/7/27 | 1060 days | 142 | 2 | | | |
| 144 | Obtaining the construction completion certificate of seawalls | Sat 31/7/27 | Sat 31/7/27 | 1 day | 143 | 0 | | | |
| 145 | Planned Completion Date (Section 3) | Sat 31/7/27 | Sat 31/7/27 | 1 day | | | | | |






| | | | | | | | | | | |
|---|-----------|--|--------------------|--|-----------------------|--|----------------|--|--------------------|--|
| Project: 3 months rolling programme (Aug 2024 to Oct 2024) Date: 16/8/2024 Revision: Rev_01 | Task | | Project Summary | | Inactive Summary | | Manual Summary | | External Milestone | |
| | Split | | External Tasks | | Manual Task | | Start-only | | Progress | |
| | Milestone | | External Milestone | | Duration-only | | Finish-only | | Deadline | |
| | Summary | | Inactive Milestone | | Manual Summary Rollup | | External Tasks | | | |

Appendix H

Weekly ET's Site Inspection Record

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

Inspection Date : 4-9-2024
 Time : 16:00
 Weather : Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
 Wind : Calm / Light / Breeze / Strong
 Temperature : ~~28~~ 30
 Humidity : High / Moderate / Low

| Inspected by | CEDD | Contractor / Sub-Contractor | ET |
|--------------|--|---|---|
| Signature: |  |  |  |
| Name: | T.L. Wong | W.L. Kwok | Chris |
| Title | Asst | E.O | ET |



Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation Stages* | | | Remark |
|--|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| Fugitive Dust Emission | | | | |
| ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ The designated site main haul road shall be paved or regular watering. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Open burning should be prohibited. | √ | | | |
| ▪ The temporary slope surfaces, shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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). | √ | | | |
| Noise Impact | | | | |
| ▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. | √ | | | |
| ▪ The constructions work should be scheduled to minimize noise nuisance. | √ | | | |
| ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. | √ | | | |
| ▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. | √ | | | |
| ▪ Air compressors and hand held breakers should have noise labels. | √ | | | |
| ▪ Compressors and generators should operate with door closed. | √ | | | |
| ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. | √ | | | |
| ▪ Noisy equipment and mobile plant shall always be site away from NSRs. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation Stages* | | | 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 property. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Manholes should be covered and sealed. | √ | | | |
| ▪ Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. | √ | | | |
| ▪ The material shall be properly covered to prevent washed away especially before rainstorm | √ | | | |
| ▪ The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. | √ | | | |
| ▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Oil interceptor shall be provided at the car parking areas and workshop. | √ | | | |
| ▪ Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. | √ | | | |
| ▪ The barges shall be in right size such that adequate clearance is 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. | √ | | | |
| ▪ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ A waste collection vessel shall be deployed to remove floating debris. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation 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. | √ | | | |
| ▪ The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| Waste Management | | | | |
| Construction Waste Management | | | | |
| ▪ Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. | √ | | | |
| ▪ Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. | √ | | | |
| ▪ Mud and debris should be removed from waterworks access roads and associated drainage systems. | √ | | | |
| ▪ Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. | √ | | | |
| ▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. | √ | | | |
| ▪ Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill. | √ | | | |
| ▪ In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements. | √ | | | |
| ▪ Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. | √ | | | |
| Chemical Waste Management | | | | |
| ▪ It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. | √ | | | |
| ▪ After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. | √ | | | |
| ▪ Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation. | √ | | | |
| ▪ Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility. | √ | | | |
| ▪ Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area. | √ | | | |
| ▪ The designated chemical waste storage area should only be used for storing chemical wastes. | √ | | | |
| ▪ The set-up of chemical waste storage area should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. | √ | | | |
| ▪ Be enclosed on at least 3 sides and securely closed. | √ | | | |

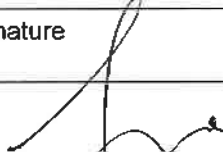
Handling of Surplus Public Fill (2024-2027) - **Tseung Kwan O Area 137 Fill Bank**

| Environmental Checklist | Implementation Stages* | | | Remark |
|---|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| ▪ Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. | √ | | | |
| ▪ Have adequate ventilation. | √ | | | |
| ▪ Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). | √ | | | |
| ▪ Be arranged so that incompatible materials are adequately separated. | √ | | | |
| ▪ Warning panels should be displayed at the waste storage area. | √ | | | |
| ▪ Waste storage area should be cleaned and maintained regularly. | √ | | | |
| ▪ Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste. | √ | | | |
| ▪ All generators, fuel and oil storage should be within bundle areas. | √ | | | |
| • Oil leakage from machinery, vehicle and plant should be prevented. | √ | | | |
| ▪ In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed. | √ | | | |
| ▪ The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. | √ | | | |
| Good Site Practices | | | | |
| ▪ Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. | √ | | | |
| ▪ Training of site personnel in proper waste management and chemical handling procedures should be provided. | √ | | | |
| • Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.. | √ | | | |
| • Proper storage and site practices to minimise the potential for damage or contamination of construction materials. | √ | | | |
| • The Environmental Permit should be displaced conspicuously on site. | √ | | | |
| • Construction noise permits should be posted at site entrance or available for site inspection. | | | √ | |
| ▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. | √ | | | |
| ▪ Chemical storage area provided with lock and located on sealed areas. | √ | | | |
| ▪ All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). | √ | | | |
| ▪ Any unused chemicals or those with remaining functional capacity should be recycled. | √ | | | |
| ▪ Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods. | √ | | | |
| ▪ A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system. | √ | | | |






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 |  | 04 September 2024 |

Inspection Date : 11/9/24
 Time : 14:30
 Weather : Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
 Wind : Calm / Light / Breeze / Strong
 Temperature : 33°C
 Humidity : High / Moderate / Low

| Inspected by | CEDD | Contractor / Sub-Contractor | ET |
|--------------|--|---|--|
| Signature: |  |  |  Mak |
| Name: | YL Wong | W.L. Kwok |  Mak Kei Wai |
| Title | ASOW | E.O |  E.T |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation Stages* | | | Remark |
|--|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| Fugitive Dust Emission | | | | |
| ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ The designated site main haul road shall be paved or regular watering. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Open burning should be prohibited. | √ | | | |
| ▪ The temporary slope surfaces, shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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). | √ | | | |
| Noise Impact | | | | |
| ▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. | √ | | | |
| ▪ The constructions work should be scheduled to minimize noise nuisance. | √ | | | |
| ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. | √ | | | |
| ▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. | √ | | | |
| ▪ Air compressors and hand held breakers should have noise labels. | √ | | | |
| ▪ Compressors and generators should operate with door closed. | √ | | | |
| ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. | √ | | | |
| ▪ Noisy equipment and mobile plant shall always be site away from NSRs. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - **Tseung Kwan O Area 137 Fill Bank**

| Environmental Checklist | Implementation Stages* | | | 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 property. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Manholes should be covered and sealed. | √ | | | |
| ▪ Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. | √ | | | |
| ▪ The material shall be properly covered to prevent washed away especially before rainstorm | √ | | | |
| ▪ The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. | √ | | | |
| ▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcore 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. | √ | | | |
| ▪ Oil interceptor shall be provided at the car parking areas and workshop. | √ | | | |
| ▪ Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. | √ | | | |
| ▪ The barges shall be in right size such that adequate clearance is 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. | √ | | | |
| ▪ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ A waste collection vessel shall be deployed to remove floating debris. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation Stages* | | | Remark |
|--|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| Landscape and Visual | | | | |
| <ul style="list-style-type: none"> 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. | √ | | | |
| <ul style="list-style-type: none"> The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. | √ | | | |
| <ul style="list-style-type: none"> 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. | √ | | | |
| <ul style="list-style-type: none"> 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. | √ | | | |
| Waste Management | | | | |
| Construction Waste Management | | | | |
| <ul style="list-style-type: none"> Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. | √ | | | |
| <ul style="list-style-type: none"> Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. | √ | | | |
| <ul style="list-style-type: none"> Mud and debris should be removed from waterworks access roads and associated drainage systems. | √ | | | |
| <ul style="list-style-type: none"> Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. | √ | | | |
| <ul style="list-style-type: none"> Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. | √ | | | |
| <ul style="list-style-type: none"> Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill. | √ | | | |
| <ul style="list-style-type: none"> In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements. | √ | | | |
| <ul style="list-style-type: none"> Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. | √ | | | |
| Chemical Waste Management | | | | |
| <ul style="list-style-type: none"> It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. | √ | | | |
| <ul style="list-style-type: none"> After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. | √ | | | |
| <ul style="list-style-type: none"> Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation. | √ | | | |
| <ul style="list-style-type: none"> Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility. | √ | | | |
| <ul style="list-style-type: none"> Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area. | √ | | | |
| <ul style="list-style-type: none"> The designated chemical waste storage area should only be used for storing chemical wastes. | √ | | | |
| <ul style="list-style-type: none"> The set-up of chemical waste storage area should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. | √ | | | |
| <ul style="list-style-type: none"> Be enclosed on at least 3 sides and securely closed. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

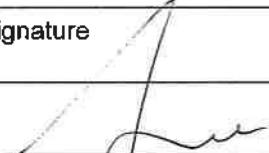
| Environmental Checklist | Implementation Stages* | | | Remark |
|---|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| ▪ Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. | √ | | | |
| ▪ Have adequate ventilation. | √ | | | |
| ▪ Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). | √ | | | |
| ▪ Be arranged so that incompatible materials are adequately separated. | √ | | | |
| ▪ Warning panels should be displayed at the waste storage area. | √ | | | |
| ▪ Waste storage area should be cleaned and maintained regularly. | √ | | | |
| ▪ Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste. | √ | | | |
| ▪ All generators, fuel and oil storage should be within bunded areas. | √ | | | |
| ▪ Oil leakage from machinery, vehicle and plant should be prevented. | √ | | | |
| ▪ In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed. | √ | | | |
| ▪ The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. | √ | | | |
| Good Site Practices | | | | |
| ▪ Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. | √ | | | |
| ▪ Training of site personnel in proper waste management and chemical handling procedures should be provided. | √ | | | |
| • Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.. | √ | | | |
| • Proper storage and site practices to minimise the potential for damage or contamination of construction materials. | √ | | | |
| • The Environmental Permit should be displayed conspicuously on site. | √ | | | |
| • Construction noise permits should be posted at site entrance or available for site inspection. | | | √ | |
| ▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. | √ | | | |
| ▪ Chemical storage area provided with lock and located on sealed areas. | √ | | | |
| ▪ All chemicals should be placed at the bunded area with adequate bund capacity (>110% of largest tank). | √ | | | |
| ▪ Any unused chemicals or those with remaining functional capacity should be recycled. | √ | | | |
| ▪ Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods. | √ | | | |
| ▪ A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - **Tseung Kwan O Area 137 Fill Bank**

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 |  | 11 September 2024 |

Handling of Surplus Public Fill (2024-2027) - **Tseung Kwan O Area 137 Fill Bank**

Inspection Date : 17-09-2024
Time : 10:37
Weather : Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind : Calm Light Breeze / Strong
Temperature : 31°C
Humidity : High / Moderate / Low

| Inspected by | CEDD | Contractor / Sub-Contractor | ET |
|--------------|--|---|---|
| Signature: |  |  |  |
| Name: | Wong | Simon Pan | Paul To |
| Title | Asst. | Site Agent | E.T |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation Stages* | | | Remark |
|--|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| Fugitive Dust Emission | | | | |
| ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ The designated site main haul road shall be paved or regular watering. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Open burning should be prohibited. | √ | | | |
| ▪ The temporary slope surfaces, shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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). | √ | | | |
| Noise Impact | | | | |
| ▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. | √ | | | |
| ▪ The constructions work should be scheduled to minimize noise nuisance. | √ | | | |
| ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. | √ | | | |
| ▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. | √ | | | |
| ▪ Air compressors and hand held breakers should have noise labels. | √ | | | |
| ▪ Compressors and generators should operate with door closed. | √ | | | |
| ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. | √ | | | |
| • Noisy equipment and mobile plant shall always be site away from NSRs. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation Stages* | | | 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Manholes should be covered and sealed. | √ | | | |
| ▪ Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. | √ | | | |
| ▪ The material shall be properly covered to prevent washed away especially before rainstorm | √ | | | |
| ▪ The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. | √ | | | |
| ▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Oil interceptor shall be provided at the car parking areas and workshop. | √ | | | |
| ▪ Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ A waste collection vessel shall be deployed to remove floating debris. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - **Tseung Kwan O Area 137 Fill Bank**

| Environmental Checklist | Implementation Stages* | | | Remark |
|--|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| Landscape and Visual | | | | |
| <ul style="list-style-type: none"> 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. | √ | | | |
| <ul style="list-style-type: none"> The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. | √ | | | |
| <ul style="list-style-type: none"> 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. | √ | | | |
| <ul style="list-style-type: none"> 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. | √ | | | |
| Waste Management | | | | |
| Construction Waste Management | | | | |
| <ul style="list-style-type: none"> Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. | √ | | | |
| <ul style="list-style-type: none"> Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. | √ | | | |
| <ul style="list-style-type: none"> Mud and debris should be removed from waterworks access roads and associated drainage systems. | √ | | | |
| <ul style="list-style-type: none"> Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. | √ | | | |
| <ul style="list-style-type: none"> Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. | √ | | | |
| <ul style="list-style-type: none"> Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill. | √ | | | |
| <ul style="list-style-type: none"> In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements. | √ | | | |
| <ul style="list-style-type: none"> Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. | √ | | | |
| Chemical Waste Management | | | | |
| <ul style="list-style-type: none"> It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. | √ | | | |
| <ul style="list-style-type: none"> After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. | √ | | | |
| <ul style="list-style-type: none"> Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation. | √ | | | |
| <ul style="list-style-type: none"> Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility. | √ | | | |
| <ul style="list-style-type: none"> Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area. | √ | | | |
| <ul style="list-style-type: none"> The designated chemical waste storage area should only be used for storing chemical wastes. | √ | | | |
| <ul style="list-style-type: none"> The set-up of chemical waste storage area should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. | √ | | | |
| <ul style="list-style-type: none"> Be enclosed on at least 3 sides and securely closed. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

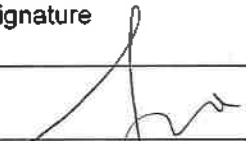
| Environmental Checklist | Implementation Stages* | | | Remark |
|---|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| ▪ Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. | √ | | | |
| ▪ Have adequate ventilation. | √ | | | |
| ▪ Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). | √ | | | |
| ▪ Be arranged so that incompatible materials are adequately separated. | √ | | | |
| • Warning panels should be displayed at the waste storage area. | √ | | | |
| • Waste storage area should be cleaned and maintained regularly. | √ | | | |
| • Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste. | √ | | | |
| ▪ All generators, fuel and oil storage should be within bunded areas. | √ | | | |
| ▪ Oil leakage from machinery, vehicle and plant should be prevented. | √ | | | |
| ▪ In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed. | √ | | | |
| ▪ The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. | √ | | | |
| Good Site Practices | | | | |
| ▪ Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. | √ | | | |
| ▪ Training of site personnel in proper waste management and chemical handling procedures should be provided. | √ | | | |
| • Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment. | √ | | | |
| • Proper storage and site practices to minimise the potential for damage or contamination of construction materials. | √ | | | |
| • The Environmental Permit should be displayed conspicuously on site. | √ | | | |
| ▪ Construction noise permits should be posted at site entrance or available for site inspection. | | | √ | |
| ▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. | √ | | | |
| ▪ Chemical storage area provided with lock and located on sealed areas. | √ | | | |
| ▪ All chemicals should be placed at the bunded area with adequate bund capacity (>110% of largest tank). | √ | | | |
| ▪ Any unused chemicals or those with remaining functional capacity should be recycled. | √ | | | |
| ▪ Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods. | √ | | | |
| ▪ A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - **Tseung Kwan O Area 137 Fill Bank**

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 |  | 17 September 2024 |

Handling of Surplus Public Fill (2024-2027) - **Tseung Kwan O Area 137 Fill Bank**

Inspection Date : 26/09/2024




Time : 15:40

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

Wind : Calm / Light / Breeze / Strong

Temperature : 33°C

Humidity : High / Moderate / Low

| Inspected by | CEDD | Contractor / Sub-Contractor | ET |
|--------------|--|---|---|
| Signature: |  |  |  IIC Rep. 2 |
| Name: | K. Wong | W. L. Kwok | To Kwan Tin ZEC Rep. 2 |
| Title | Asst. | E.O | IIC Rep. 2 ET |

| Environmental Checklist | Implementation Stages* | | | Remark |
|--|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| Fugitive Dust Emission | | | | |
| ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ The designated site main haul road shall be paved or regular watering. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Open burning should be prohibited. | √ | | | |
| ▪ The temporary slope surfaces, shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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). | √ | | | |
| Noise Impact | | | | |
| ▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. | √ | | | |
| ▪ The constructions work should be scheduled to minimize noise nuisance. | √ | | | |
| ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. | √ | | | |
| ▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. | √ | | | |
| ▪ Air compressors and hand held breakers should have noise labels. | √ | | | |
| ▪ Compressors and generators should operate with door closed. | √ | | | |
| ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. | √ | | | |
| ▪ Noisy equipment and mobile plant shall always be site away from NSRs. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation Stages* | | | 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ Manholes should be covered and sealed. | √ | | | |
| ▪ Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. | √ | | | |
| ▪ The material shall be properly covered to prevent washed away especially before rainstorm | √ | | | |
| ▪ The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. | √ | | | |
| ▪ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcore 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. | √ | | | |
| ▪ Oil interceptor shall be provided at the car parking areas and workshop. | √ | | | |
| ▪ Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. | √ | | | |
| ▪ The barges shall be in right size such that adequate clearance is 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. | √ | | | |
| ▪ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ A waste collection vessel shall be deployed to remove floating debris. | √ | | | |

Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation 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. | √ | | | |
| ▪ The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ 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. | √ | | | |
| Waste Management | | | | |
| Construction Waste Management | | | | |
| ▪ Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. | √ | | | |
| ▪ Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. | √ | | | |
| ▪ Mud and debris should be removed from waterworks access roads and associated drainage systems. | √ | | | |
| ▪ Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. | √ | | | |
| ▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. | √ | | | |
| ▪ Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill. | √ | | | |
| ▪ In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements. | √ | | | |
| ▪ Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. | √ | | | |
| Chemical Waste Management | | | | |
| ▪ It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. | √ | | | |
| ▪ After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. | √ | | | |
| ▪ Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation. | √ | | | |
| ▪ Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility. | √ | | | |
| ▪ Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area. | √ | | | |
| ▪ The designated chemical waste storage area should only be used for storing chemical wastes. | √ | | | |
| ▪ The set-up of chemical waste storage area should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. | √ | | | |
| ▪ Be enclosed on at least 3 sides and securely closed. | √ | | | |

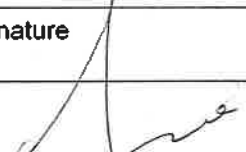
Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

| Environmental Checklist | Implementation Stages* | | | Remark |
|---|------------------------|----|-----|--------|
| | Yes | No | N/A | |
| ▪ Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. | √ | | | |
| ▪ Have adequate ventilation. | √ | | | |
| ▪ Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). | √ | | | |
| ▪ Be arranged so that incompatible materials are adequately separated. | √ | | | |
| ▪ Warning panels should be displayed at the waste storage area. | √ | | | |
| ▪ Waste storage area should be cleaned and maintained regularly. | √ | | | |
| ▪ Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste. | √ | | | |
| ▪ All generators, fuel and oil storage should be within bundle areas. | √ | | | |
| ▪ Oil leakage from machinery, vehicle and plant should be prevented. | √ | | | |
| ▪ In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed. | √ | | | |
| • The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. | √ | | | |
| Good Site Practices | | | | |
| ▪ Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. | √ | | | |
| ▪ Training of site personnel in proper waste management and chemical handling procedures should be provided. | √ | | | |
| • Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.. | √ | | | |
| • Proper storage and site practices to minimise the potential for damage or contamination of construction materials. | √ | | | |
| • The Environmental Permit should be displaced conspicuously on site. | √ | | | |
| • Construction noise permits should be posted at site entrance or available for site inspection. | | | √ | |
| ▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. | √ | | | |
| ▪ Chemical storage area provided with lock and located on sealed areas. | √ | | | |
| ▪ All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). | √ | | | |
| ▪ Any unused chemicals or those with remaining functional capacity should be recycled. | √ | | | |
| ▪ Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. | √ | | | |
| ▪ 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. | √ | | | |
| ▪ A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods. | √ | | | |
| ▪ A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system. | √ | | | |

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 |  | 26 September 2024 |

Appendix I

Implementation Schedule of Mitigation Measures

Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O Area 137 Fill Bank
 Contract No.: CV/2023/10

Environmental Mitigation Implementation Schedule

| Environmental Protection Measures | Location | Implementation Status | | | |
|--|------------------------|-----------------------|-----------------------|-----------------|----------------|
| | | Implemented | Partially implemented | Not implemented | Not Applicable |
| Air Quality | | | | | |
| ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance. | All areas | | √ | | |
| ▪ 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 | √ | | | |
| ▪ Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions. | All areas | √ | | | |
| ▪ All vehicles shall be restrict to a maximum speed of 10 km per hour. | All areas | √ | | | |
| ▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. | Site Egress | √ | | | |
| ▪ The designated site main haul rout shall be paved or regular watering. | All haul roads | √ | | | |
| ▪ Frequent watering of work site shall be at least three times per day. | All areas | √ | | | |
| ▪ Wheel washing facilities including high pressure water jet shall be provided at the entrance of work site. | Site Egress | √ | | | |
| ▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. | Site Egress | √ | | | |
| ▪ The temporary slope surfaces, 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 | √ | | | |
| ▪ 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 | √ | | | |
| ▪ When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides. | C&DMSF | √ | | | |
| ▪ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt. | C&DMFS | √ | | | |
| ▪ 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 | √ | | | |
| ▪ All plant and equipment should be well maintained e.g. without black smoke emission. | All areas | √ | | | |
| ▪ Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311). | All areas | | √ | | |
| Noise Impact | | | | | |
| ▪ 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 | √ | | | |
| ▪ Noisy equipment and mobile plant shall always be site away from NSRs. | All areas | √ | | | |

Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O Area 137 Fill Bank
 Contract No.: CV/2023/10

| Environmental Protection Measures | Location | Implementation Status | | | |
|---|------------------------------|-----------------------|-----------------------|-----------------|----------------|
| | | Implemented | Partially implemented | Not implemented | Not Applicable |
| Water Quality | | | | | |
| ▪ Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. | All areas | √ | | | |
| ▪ The permanent drainage channels should have sediment basin, traps and baffles and maintain properly. | All areas | √ | | | |
| ▪ 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 | √ | | | |
| ▪ Manholes should be covered and sealed. | All areas | √ | | | |
| ▪ Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. | All areas | | √ | | |
| ▪ 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 | √ | | | |
| ▪ A buffer distance of at least 20m shall be maintained between the boundary of the C&DMFS and the seafront. | C&DMFS | √ | | | |
| ▪ The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. | All areas | √ | | | |
| ▪ 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 | √ | | | |
| ▪ 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 | √ | | | |
| ▪ 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 | √ | | | |
| ▪ 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 | √ | | | |
| ▪ 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 | √ | | | |
| ▪ 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 | √ | | | |
| ▪ Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas and work shop. | All areas | √ | | | |
| ▪ Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. | Barge Handling Area (BHA) | √ | | | |
| ▪ 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) | √ | | | |
| ▪ 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) | √ | | | |
| ▪ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. | Along the seafront | √ | | | |
| ▪ 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) | √ | | | |
| ▪ 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 | √ | | | |
| ▪ 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 | √ | | | |
| ▪ A waste collection vessel shall be deployed to remove floating debris. | Along the seafront | √ | | | |

Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O Area 137 Fill Bank
 Contract No.: CV/2023/10

| Environmental Protection Measures | Location | Implementation Status | | | |
|---|------------------|-----------------------|-----------------------|-----------------|----------------|
| | | Implemented | Partially implemented | Not implemented | Not Applicable |
| Landscape and Visual | | | | | |
| <ul style="list-style-type: none"> 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 | √ | | | |
| <ul style="list-style-type: none"> The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. | Completed slopes | √ | | | |
| <ul style="list-style-type: none"> 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 | √ | | | |
| <ul style="list-style-type: none"> 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 | √ | | | |
| Other Environmental Factors | | | | | |
| <ul style="list-style-type: none"> C&D waste sorted from mixed C&D material shall be transfer to SENT landfill for disposal. | All areas | √ | | | |
| <ul style="list-style-type: none"> Plan and stock construction materials carefully to minimise generation of waste. | All areas | √ | | | |
| <ul style="list-style-type: none"> Any unused materials or those with remaining functional capacity should be recycled. | All areas | √ | | | |
| <ul style="list-style-type: none"> All generators, fuel and oil storage are within bunded areas. | All areas | √ | | | |
| <ul style="list-style-type: none"> Oil leakage from machinery, vehicle and plant is prevented. | All areas | | √ | | |
| <ul style="list-style-type: none"> The Environmental Permit should be displaced conspicuously on site. | All areas | √ | | | |
| <ul style="list-style-type: none"> 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 | √ | | | |
| <ul style="list-style-type: none"> 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 2024

| Month | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|-----------|--|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|----------------------------|-----------------------|----------------|-----------------------------|
| | 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 | | | | | | | | | | | |
| Feb | | | | | | | | | | | |
| Mar | | | | | | | | | | | |
| Apr | | | | | | | | | | | |
| May | | | | | | | | | | | |
| Jun | | | | | | | | | | | |
| Sub-total | | | | | | | | | | | |
| Jul | | | | | | | | | | | |
| Aug | 0 | 0 | 0 | 0 | 0 | 0 | 135.63 | 0 | 0 | 0 | 60.35 |
| Sep | 0 | 0 | 0 | 0 | 0 | 0 | 111.48 | 0 | 0 | 0 | 245.58 |
| Oct | | | | | | | | | | | |
| Nov | | | | | | | | | | | |
| Dec | | | | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 247.11 | 0 | 0 | 0 | 305.93 |

- Notes:
- (1) The performance targets are given in **PS Clause 1.108(14)**.
 - (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
 - (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
 - (4) The *Contractor* shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the *works*, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the *works* is equal to or exceeding 50,000 m³.
 - (5) This waste flow table is under Contract (No. CV/2023/10) and the quantities of materials shown in the table is the sum of the material quantities generated by TKO137 Fill Bank and TM38 Fill Bank

Appendix L

Monitoring Schedule for the Coming Month



Contract No. CV/2023/10 Handling of Surplus Public Fill (2024-2027)
Tseung Kwan O Area 137

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

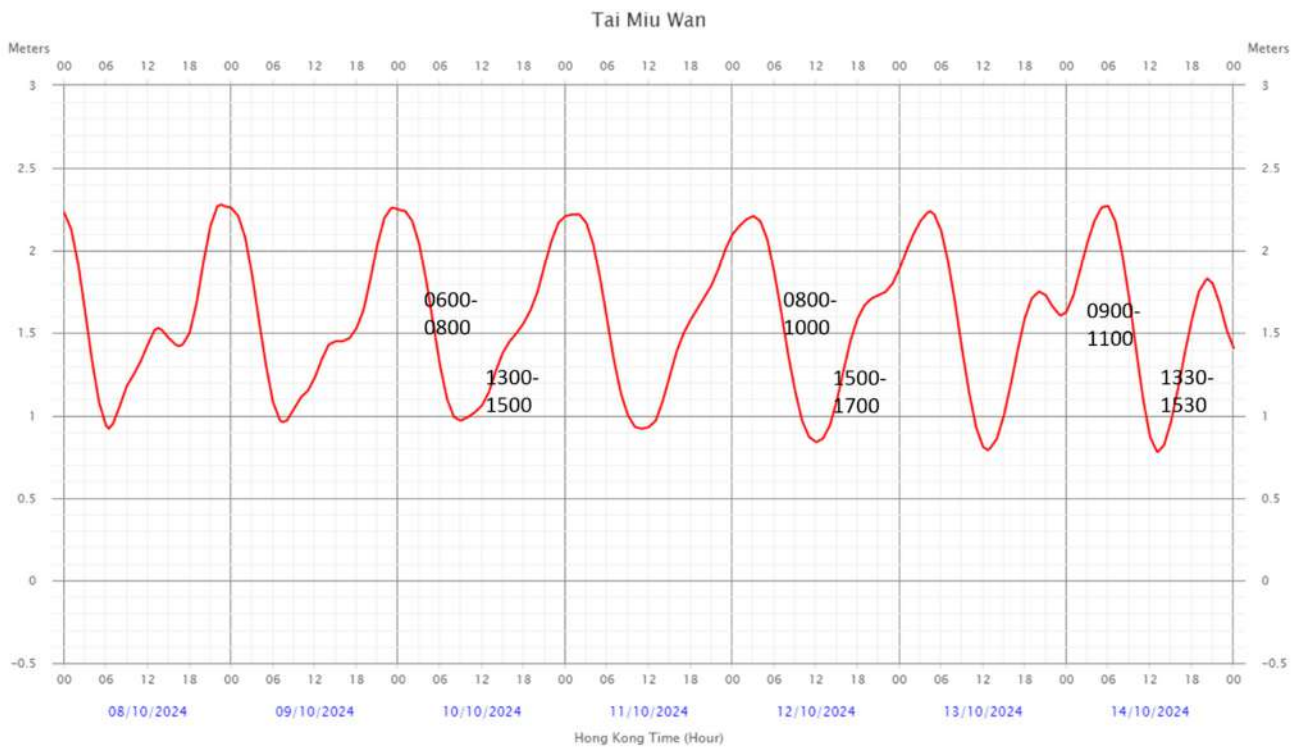
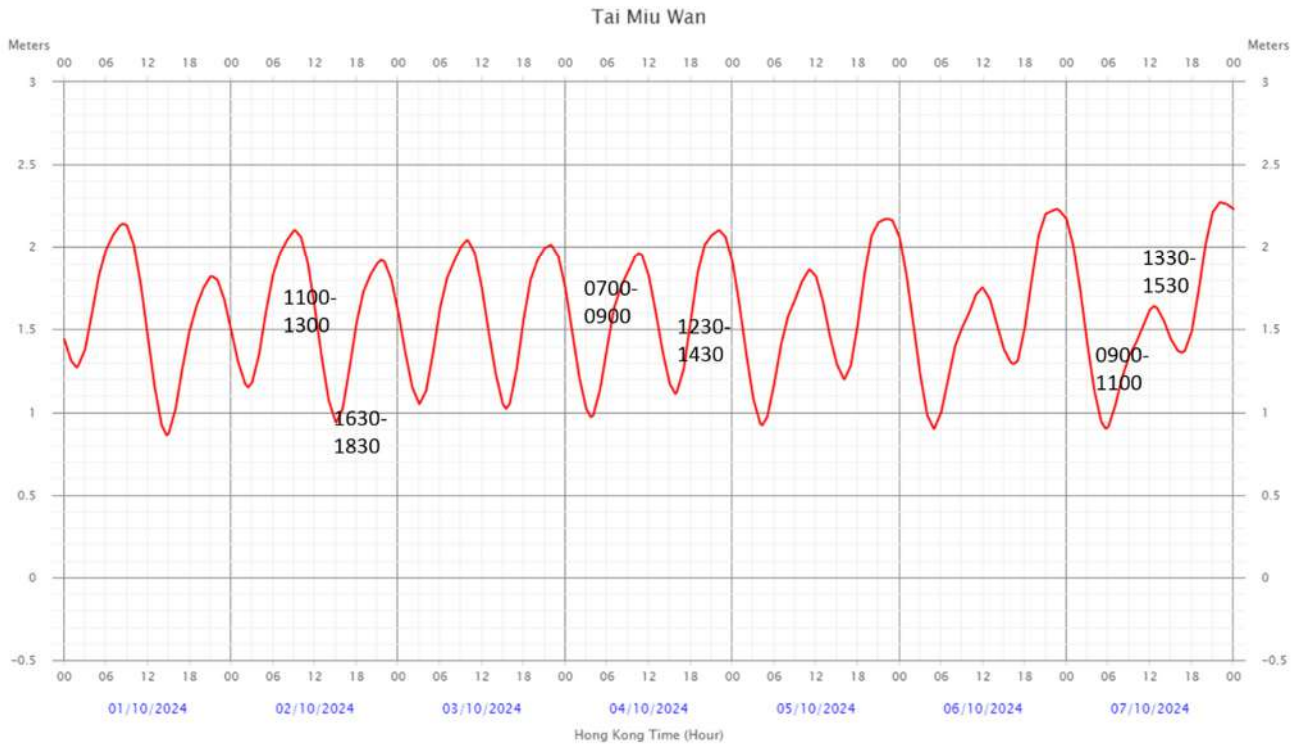
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|---|-----------|--|---|--|--|
| 29-Sep | 30-Sep | 1-Oct | 2-Oct | 3-Oct | 4-Oct | 5-Oct |
| | 1-hr TSP x 2 Mid-ebb (10:00-12:00) Mid-flood (16:00-18:00) | | 1-hr TSP x 1 Weekly SI (pm) Mid-ebb (11:00-13:00) Mid-flood (16:30-18:30) | | 24 hr TSP Mid-flood (07:00-09:00) Mid-ebb (12:30-14:30) | |
| 6-Oct | 7-Oct | 8-Oct | 9-Oct | 10-Oct | 11-Oct | 12-Oct |
| | 1-hr TSP x 2 NM Mid-flood (09:00-11:00) Mid-ebb (13:30-15:30) | | 1-hr TSP x 1 Set 24 hr (10/10) Weekly SI (pm) | 24 hr TSP Mid-ebb (06:00-08:00) Mid-flood (13:00-15:00) | | Mid-ebb (08:00-10:00) Mid-flood (15:00-17:00) |
| 13-Oct | 14-Oct | 15-Oct | 16-Oct | 17-Oct | 18-Oct | 19-Oct |
| | 1-hr TSP x 3 Mid-ebb (09:00-11:00) Mid-flood (15:00-17:00) | | 24 hr TSP Weekly SI (am) Mid-ebb (10:00-12:00) Mid-flood (16:00-18:00) | | 1-hr TSP x 2 Mid-ebb (11:30-13:30) Mid-flood (16:30-18:30) | |
| 20-Oct | 21-Oct | 22-Oct | 23-Oct | 24-Oct | 25-Oct | 26-Oct |
| | 1-hr TSP x 1 Set 24 hr (22/10) Mid-flood (09:00-11:00) Mid-ebb (13:30-15:30) | 24 hr TSP | 1-hr TSP x 2 Weekly SI (am) | Mid-ebb (06:00-08:00) Mid-flood (14:00-16:00) | 1-hr TSP x 1 | Mid-ebb (08:00-10:00) Mid-flood (14:00-16:00) |
| 27-Oct | 28-Oct | 29-Oct | 30-Oct | 31-Oct | 1-Nov | 2-Nov |
| | 24 hr TSP Mid-ebb (09:00-11:00) Mid-flood (15:00-17:00) | | 1-hr TSP x 2 Weekly SI (am) Mid-ebb (10:00-12:00) Mid-flood (15:30-17:30) | | 1-hr TSP x 1 Mid-ebb (11:00-13:00) Mid-flood (16:00-18:00) | |

Remark: 1. TKO 137 Fill Bank is closed on General Holidays.

Contract No. CV/2023/10 Handling of Surplus Public Fill (2024-2027)
Tseung Kwan O Area 137

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

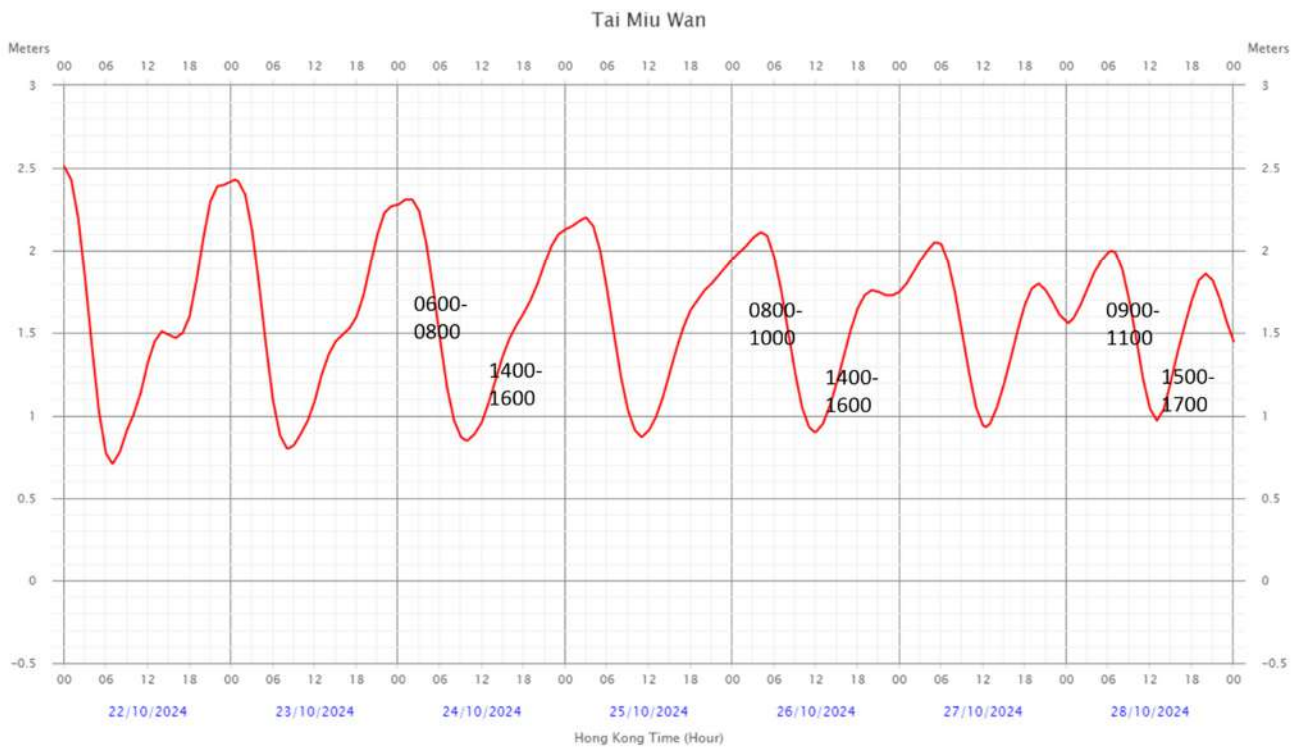
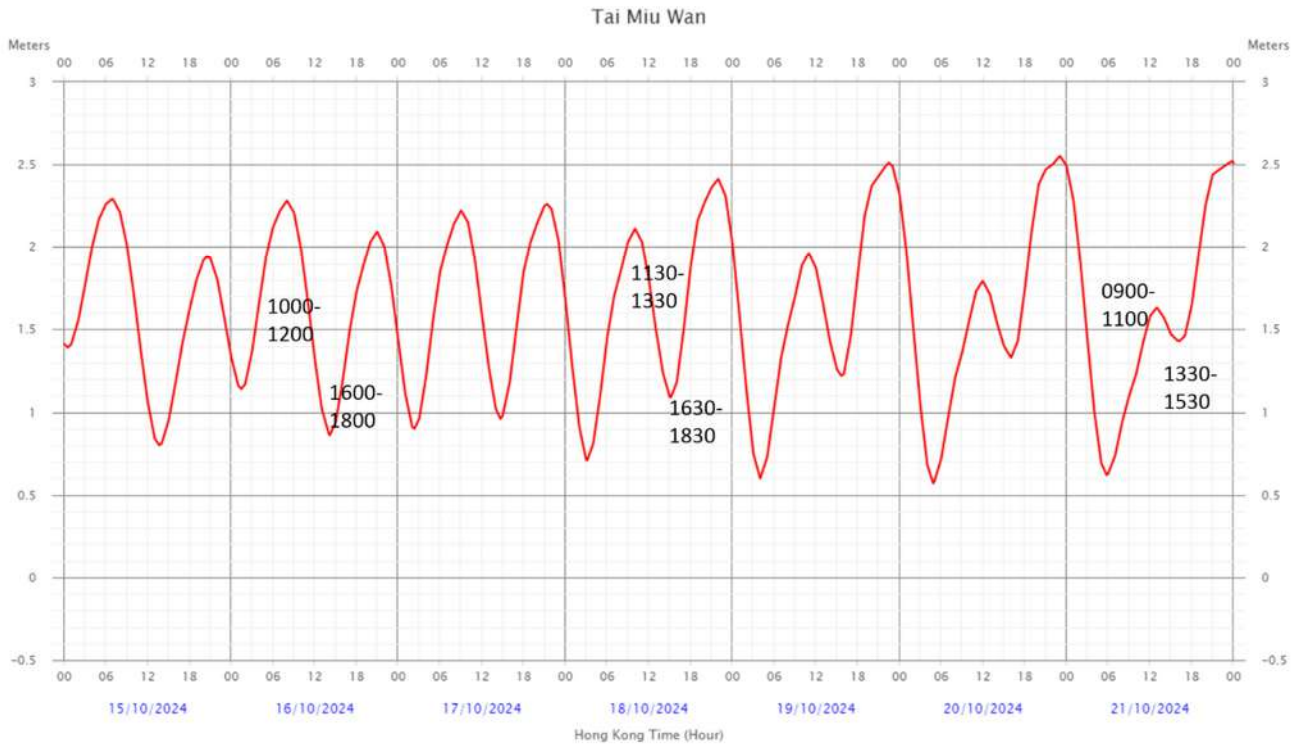
October 2024



Contract No. CV/2023/10 Handling of Surplus Public Fill (2024-2027)
 Tseung Kwan O Area 137

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

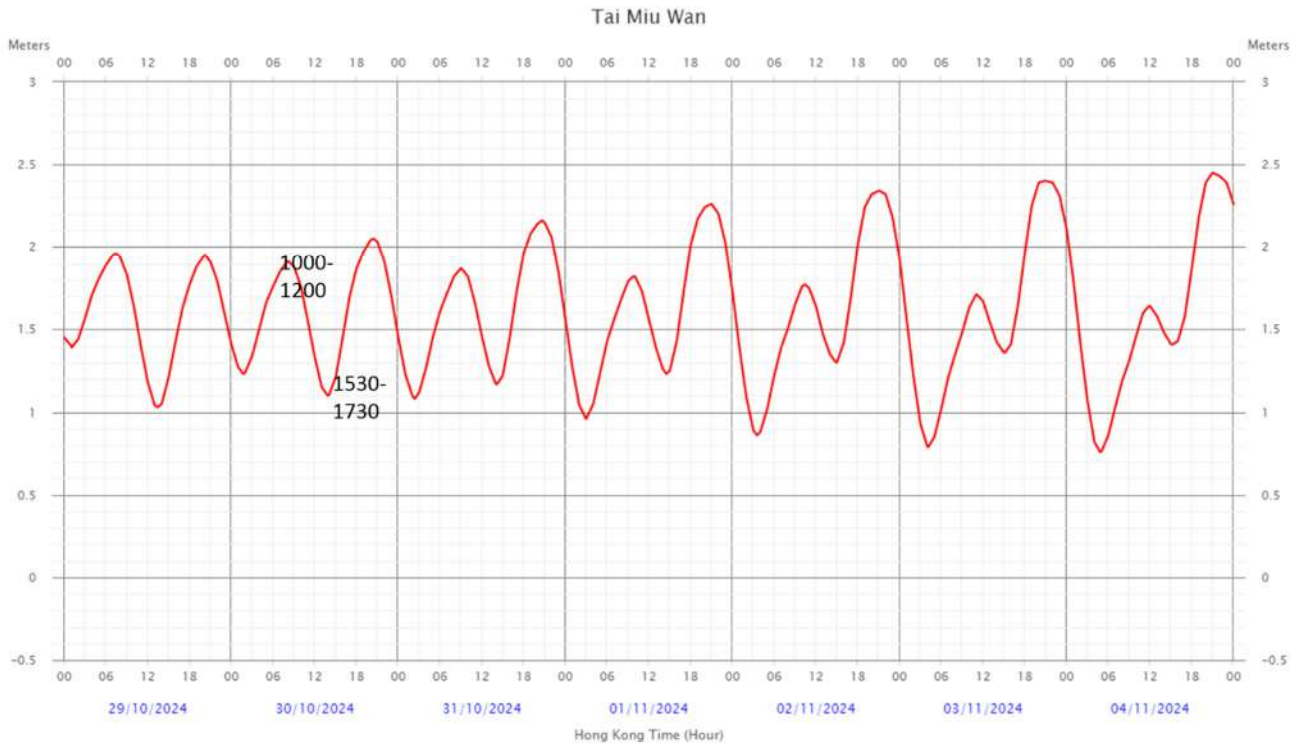
October 2024



Contract No. CV/2023/10 Handling of Surplus Public Fill (2024-2027)
Tseung Kwan O Area 137

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

October 2024



Appendix M

Reporting Month Monitoring Schedule



Contract No. CV/2023/10 Handling of Surplus Public Fill (2024-2027)
Tseung Kwan O Area 137

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

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|---|-----------------------------|---|--|---|--|
| 1-Sep | 2-Sep | 3-Sep | 4-Sep | 5-Sep | 6-Sep | 7-Sep |
| | 1-hr TSP x 2 NM Mid-ebb (11:30-13:30) Mid-flood (16:30-18:30) | | 1-hr TSP x 1 Set 24 hr (05/09) Weekly SI (am) Mid-ebb (12:00-14:00) Mid-flood (17:30-19:30) | 24 hr TSP | 1-hr TSP x 2 | Mid-flood (08:30-10:30) Mid-ebb (13:30-15:30) |
| 8-Sep | 9-Sep | 10-Sep | 11-Sep | 12-Sep | 13-Sep | 14-Sep |
| | 1-hr TSP x 1 Mid-flood (09:00-11:00) Mid-ebb (14:30-16:30) | | 24 hr TSP Weekly SI (pm) | Mid-ebb (08:00-10:00) Mid-flood (15:00-17:00) | 1-hr TSP x 2 | Mid-ebb (09:00-11:00) Mid-flood (16:00-18:00) |
| 15-Sep | 16-Sep | 17-Sep | 18-Sep | 19-Sep | 20-Sep | 21-Sep |
| | 1-hr TSP x 1 Set 24 hr (17/09) Mid-ebb (10:00-12:00) Mid-flood (16:00-18:00) | 24 hr TSP Weekly SI (am) | | Mid-ebb (11:00-13:00) Mid-flood (17:00-19:00) | 1-hr TSP x 3 Set 24 hr (23/09) | Mid-flood (07:00-09:00) Mid-ebb (13:00-15:00) |
| 22-Sep | 23-Sep | 24-Sep | 25-Sep | 26-Sep | 27-Sep | 28-Sep |
| | 24 hr TSP Mid-flood (09:00-11:00) Mid-ebb (14:30-16:30) | | 1-hr TSP x 2 Mid-ebb (07:00-09:00) Mid-flood (14:00-16:00) | Weekly SI (pm) | 1-hr TSP x 1 Set 24 hr (28/09) Mid-ebb (09:00-11:00) Mid-flood (15:00-17:00) | 24 hr TSP |
| 29-Sep | 30-Sep | 1-Oct | 2-Oct | 3-Oct | 4-Oct | 5-Oct |
| | 1-hr TSP x 2 Mid-ebb (10:00-12:00) Mid-flood (16:00-18:00) | | 1-hr TSP x 1 Weekly SI (pm) Mid-ebb (11:00-13:00) Mid-flood (16:30-18:30) | | 24 hr TSP Mid-flood (07:00-09:00) Mid-ebb (12:30-14:30) | |

Remark: 1. TKO 137 Fill Bank is closed on General Holidays.
2. Water quality monitoring (Mid-Ebb) on 06/09/2024 was rescheduled to 07/09/2024 due to the adverse weather condition (The Tropical Cyclone Signal No.8).

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. | <p>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.</p> <p>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.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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. | <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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. | <p>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).</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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！ | <p>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.</p> <p>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 TKO137 Fill Bank.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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 | <p>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</p> | <p>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).</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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 | <p>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.</p> | <p>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.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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 |

| | | | | | |
|-----|--------------------------------|--------------|---|--|--------|
| 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. | <p>Refer to the ET site investigation on 02 July 2019, no defective observation related to dust emission was recorded during the investigation.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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 | <p>Refer to the ET site investigation on 19 July 2019, no defective observation related to dust emission was recorded during the investigation.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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。 | <p>Refer to the ET site investigation on 29 July 2019, no defective observation related to dust emission was recorded during the investigation.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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。 | <p>Refer to the ET site investigation on 11 September 2019, no defective observation related to dust emission was recorded during the investigation.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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 |

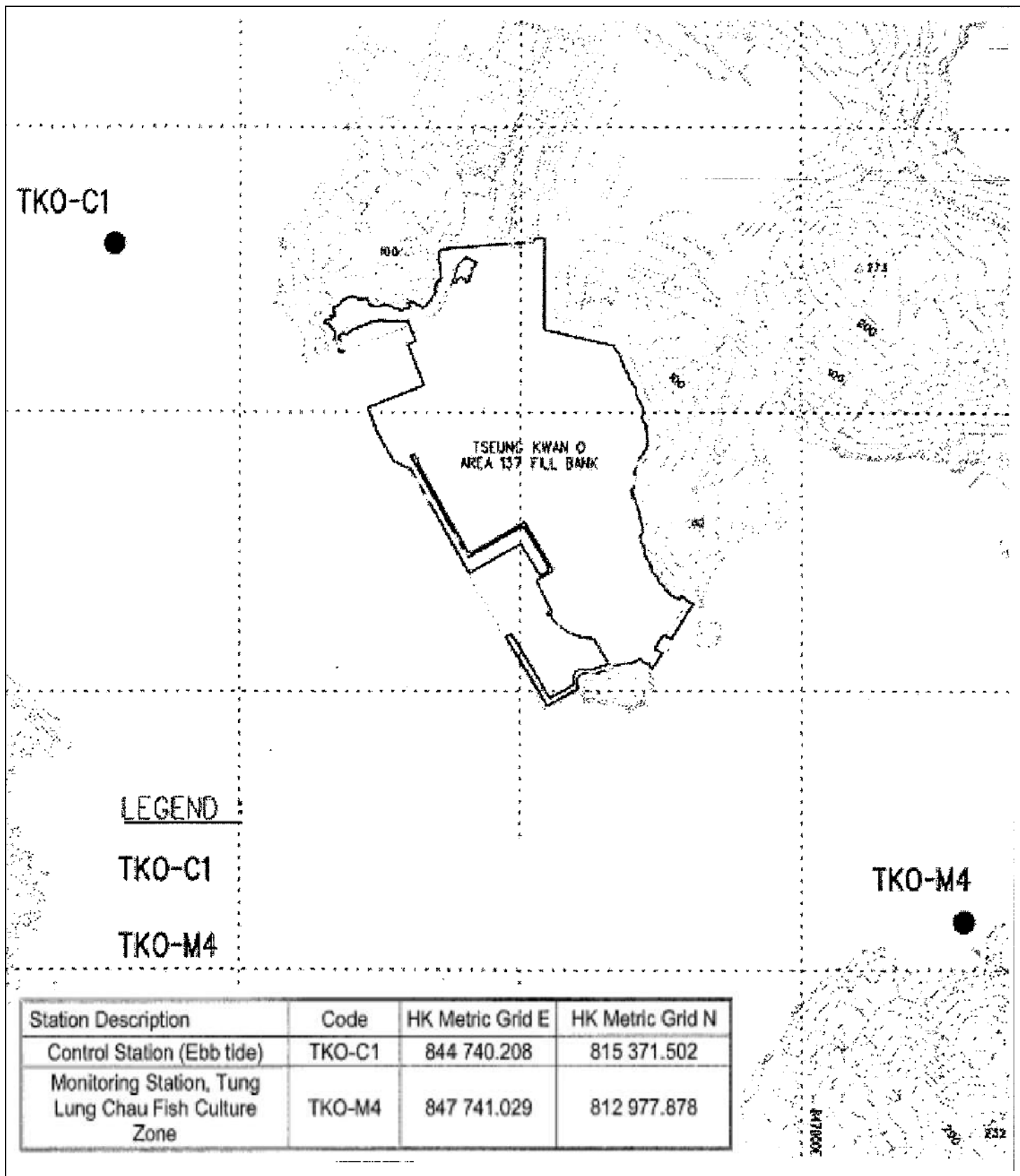
| | | | | | |
|-----|--------------------------------|----------------------|--|--|--------|
| 011 | Tseung Kwan O 137 Fill Bank | 10 September 2019 | One complaint received on 10 September 2019, which was forwarded to ET on 10 September 2019, from public against 投訴將軍澳 137 區經常於處理建築廢料時沒有灑水，導致沙塵滾滾，嚴重污染環境，要求環保署跟進及回覆。 | <p>Refer to the ET site investigation on 11 September 2019, no defective observation related to dust emission was recorded during the investigation.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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。 | <p>Refer to the ET site investigation on 30 August 2021, no defective observation related to dust emission was recorded during the investigation.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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 | <p>Refer to the ET site investigation on 29 November 2021, no defective observation related to dust emission was recorded during the investigation.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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” | <p>Refer to the ET site investigation on 20 July 2022, no defective observation related to dust emission was recorded during the investigation.</p> <p>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.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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. | <p>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.</p> <p>Refer to the ET site investigation on 12 August 2022, no defective observation related to muddy discharge was recorded during investigation.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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?” | <p>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.</p> <p>Refer to the ET site investigation on 12 and 17 August 2022, no defective observation related to muddy discharge was recorded during investigation.</p> <p>Details of Action(s) Taken by the Contactor:</p> <ul style="list-style-type: none"> • 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 |

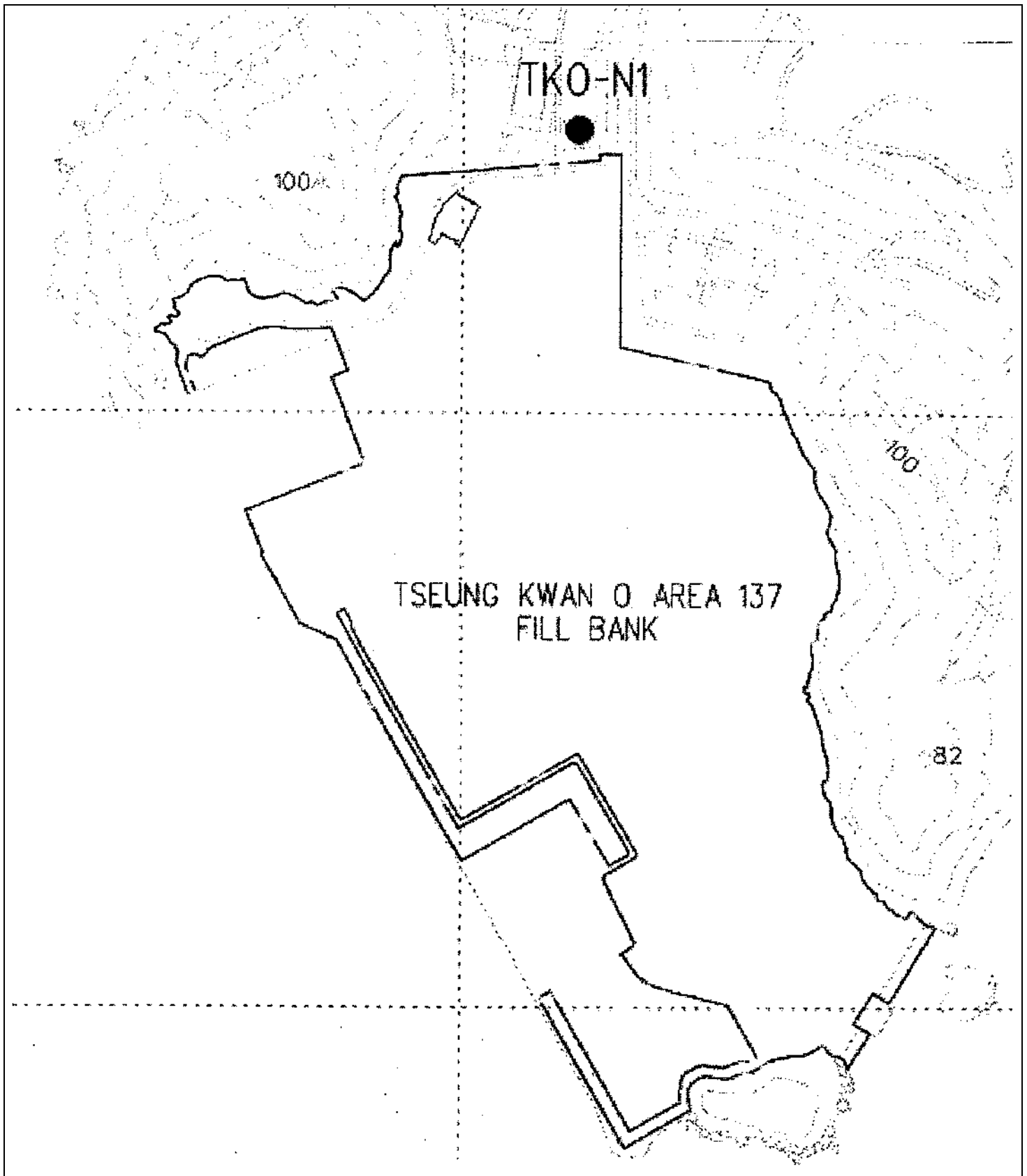
| | | | | | |
|-----|--------------------------------|---------------------|--|--|--------|
| 017 | Tseung Kwan O 137 Fill Bank | 25 October 2022 | A complaint was received on 25 October 2022, which was forwarded to ET by email on 25 October 2022, from public against ” 投訴將軍澳 137 區填料庫今日早上出現小龍捲風將泥塵吹向小西灣一帶” | Refer to the ET site investigation on 26 October 2022, no defective observation related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor: <ul style="list-style-type: none"> • Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; • Regular cleaning at the site haul road is provided to minimize the dust emission | Closed |
| 018 | Tseung Kwan O 137 Fill Bank | 14 November 2022 | A complaint was received on 14 November 2022, which was forwarded to ET by email on 14 November 2022, from public against ” complained the dust nuisance (the dark dust blowing around the sky and high PM 2.5) at Tseung Kwan O Area 137 Fill Bank , this has been going for a while .” | Refer to the ET site investigation on 14 November 2022, no defective observation related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor: <ul style="list-style-type: none"> • Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; • Regular cleaning at the site haul road is provided to minimize the dust emission | Closed |

Figures



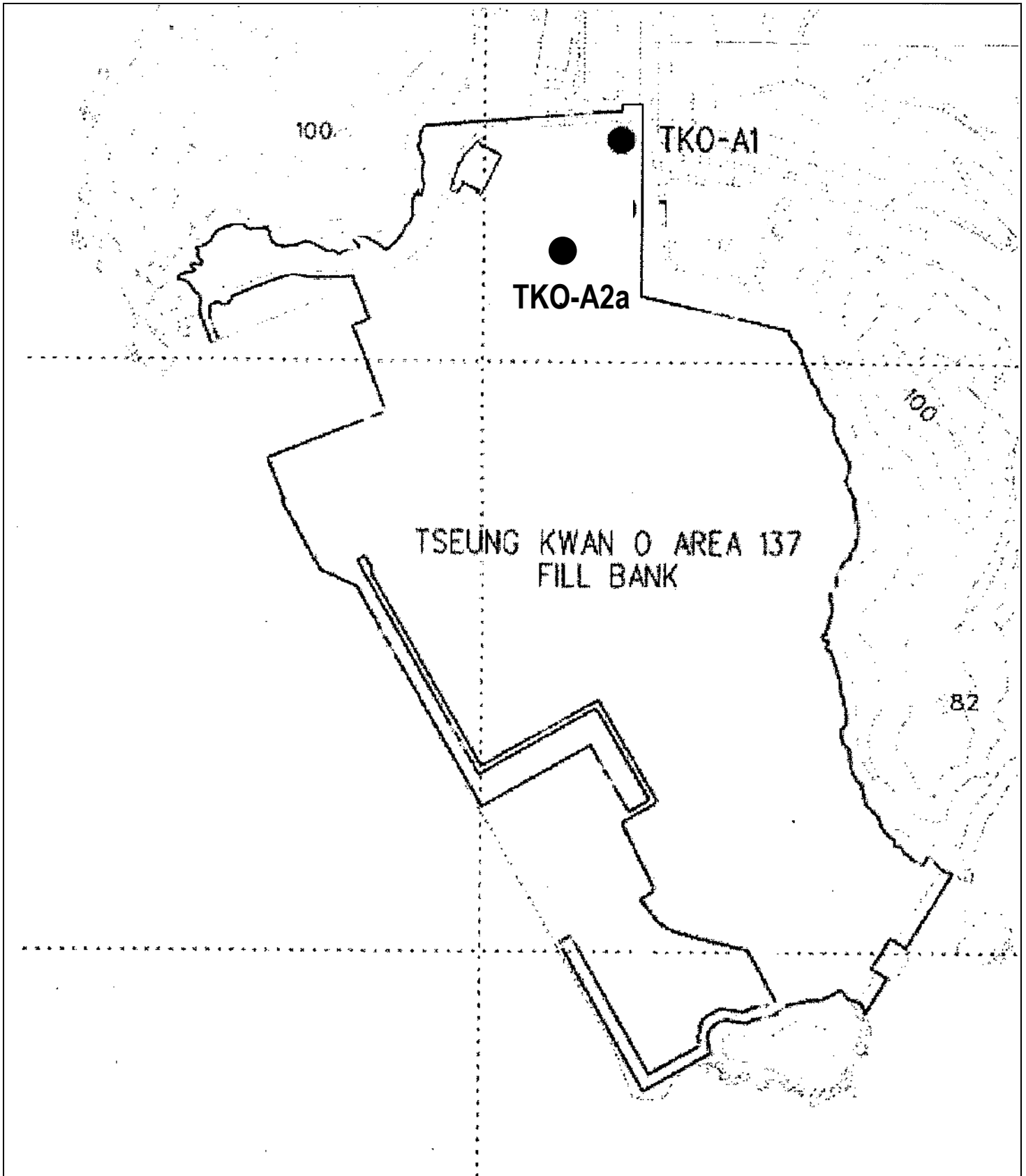
Contract No. CV/2023/10
 Handling of Surplus Public Fill (2024-2027)

Figure 1
 Locations of Water Quality Monitoring Stations –
 Tseung Kwan O Area 137 Fill Bank



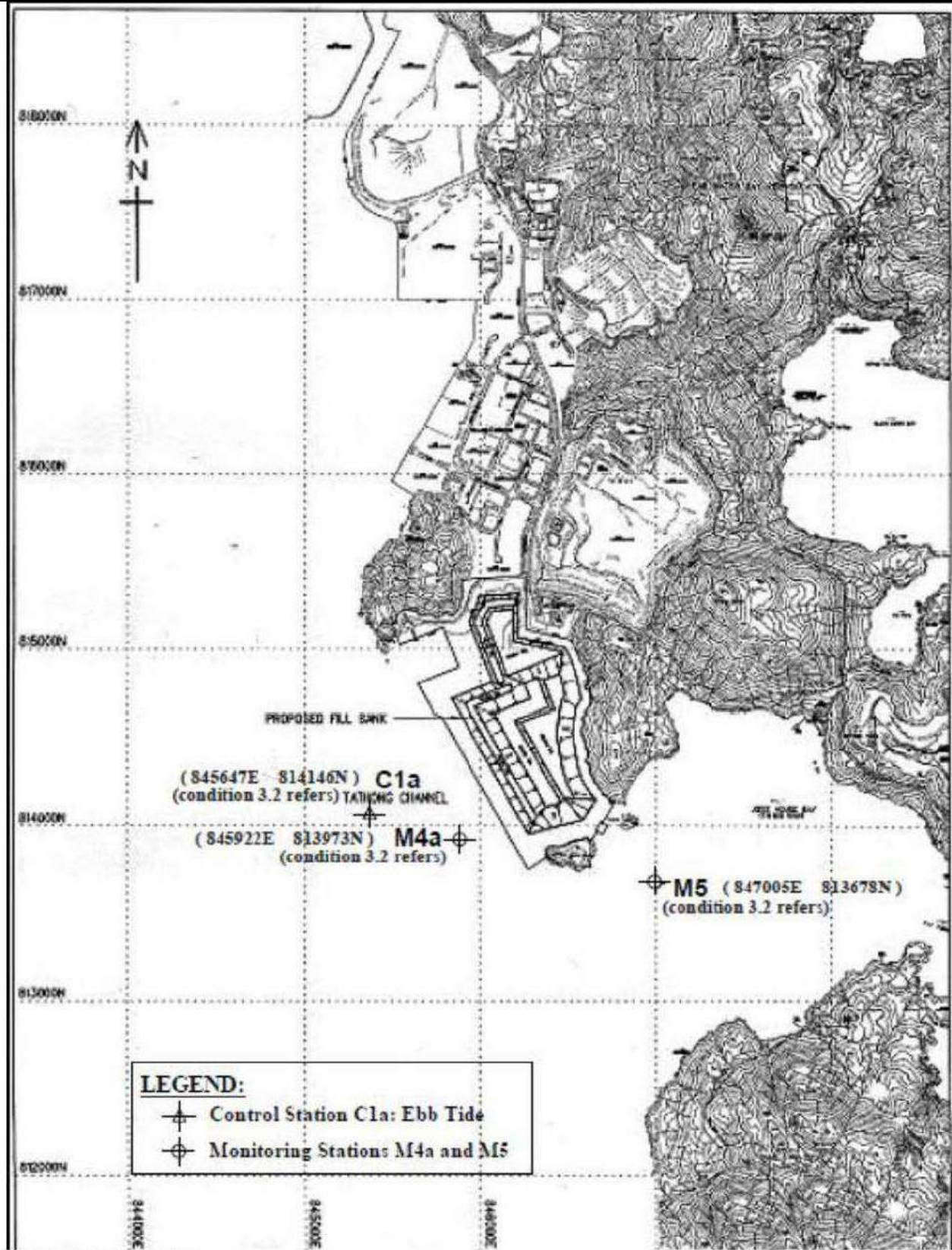
Contract No. CV/2023/10
Handling of Surplus Public Fill (2024-2027)

Figure 2
Location of Noise Monitoring Station –
Tseung Kwan O Area 137 Fill Bank



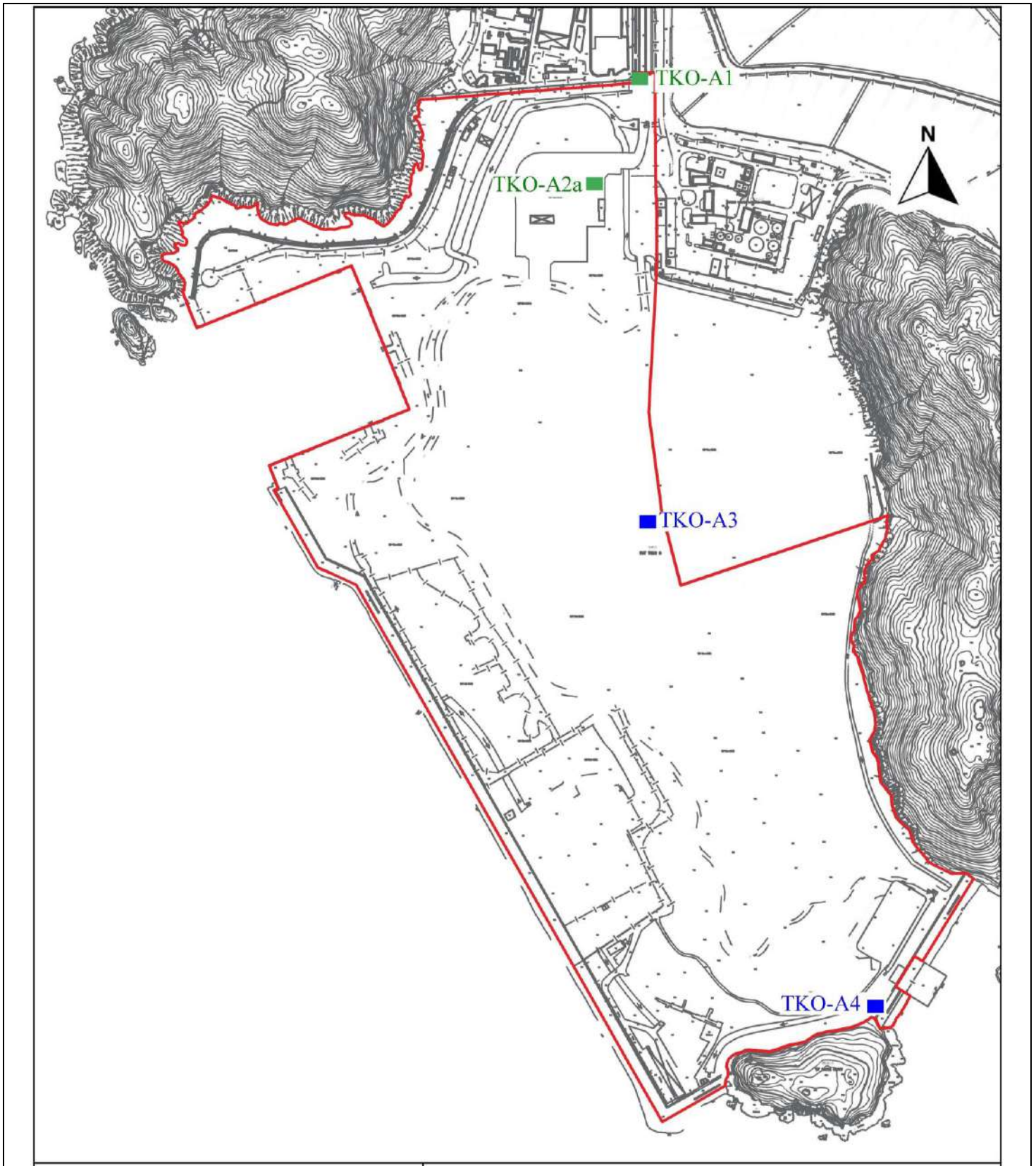
Contract No. CV/2023/10
Handling of Surplus Public Fill (2024-2027)

Figure 3
Locations of Air Quality Monitoring Stations –
Tseung Kwan O Area 137 Fill Bank



Contract No. CV/2023/10
 Handling of Surplus Public Fill (2024-2027)

Figure 4
 Locations of Additional Water Quality Monitoring Stations (3RS
 project)
 Tsung Kwan O Area 137 Fill Bank



Contract No. CV/2023/10
Handling of Surplus Public Fill (2024-2027)

Figure 5

Locations of Additional Air Quality Monitoring Stations
Tseung Kwan O Area 137 Fill Bank