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China Harbour – Zhen Hua Joint Venture

Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016-2018)

TUEN MUN AREA 38 FILL BANK

MONTHLY EM&A REPORT NO.47

(MARCH 2021)

Prepared by:

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Checked by:

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Report No.: ENA11478

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Our Ref: PL-202104051

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

Attention: Mr. C L Lau

26 April 2021

Dear Mr. Lau,

RE: Contract No. CV/2015/07 Handling of Surplus Public Fill (2016 – 2018) Monthly EM&A Report (No. 47) for March 2021 for the Tuen Mun Area 38 Fill Bank

Reference is made to your submission of the draft Monthly EM&A Report for March 2021 for the Tuen Mun Area 38 Fill Bank received by email on 19 April 2021 and the subsequent revision on 22 April 2021. We are pleased to inform you that we have no further comment on the captioned report.

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

Yours faithfully,

Toang Fauldeary

F. C. Tsang Independent Environmental Checker

cc. CEDD – Mr. T M YEUNG ET Leader – Mr. C L LAU



Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016-2018) – Tuen Mun Area 38 Fill Bank ENA11478 Monthly EM&A Report No.47

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TABLE OF CONTENTS

Page

EXECUTIVE	SUMMARY	
1.0	INTRODUCTION	1
2.0	PROJECT INFORMATION	
	2.1 Construction Programme	1
	2.2 Project Organization and Management Structure	1
	2.3 Contact Details of Key Personnel	1
3.0	CONSTRUCTION PROGRESS IN THIS REPORTING MONTH	2
4.0	AIR QUALITY MONITORING	
-	4.1 Monitoring Requirement	2
	4.2 Monitoring Equipment	2
	4.3 Monitoring Parameters, Frequency and Duration	2
	4.4 Monitoring Locations and Schedule	2
	4.5 Monitoring Methodology	3
	4.6 Action and Limit levels	4
	4.7 Event-Action Plans	4
	4.8 Results and Observations	4
5.0	MARINE WATER QUALITY MONITORING	
	5.1 Monitoring Requirements	4
	5.2 Monitoring Locations	4
	5.3 Monitoring Parameters and Frequency	4
	5.4 Monitoring Methodology and Equipment Used	5 – 6
	5.5 Action and Limit Levels	6 – 7
	5.6 Event and Action Plan	7
	5.7 Monitoring Duration and Period in this reporting month	7
6.0	5.8 Marine Water Monitoring Results	7
6.0	NOISE MONITORING	0
	6.1 Monitoring Requirements 6.2 Monitoring Equipment	8 8
	6.3 Monitoring Parameters, Duration and Frequency	o 8
	6.4 Monitoring Locations and Period	8
	6.5 Monitoring Procedures and Calibration Details	8 – 9
	6.6 Action and Limit levels	9
	6.7 Event-Action Plans	9
	6.8 Results and Observation	9
7.0	ENVIRONMENTAL AUDIT	-
-	7.1 Weekly Site Inspection and EPD's Site Inspection	9 – 10
	7.2 Review of Environmental Monitoring Procedures	10
	7.3 Status of Environmental Licensing and Permitting	11
	7.4 Implementation Status	11 - 12
8.0	LANDSCAPE AND VISUAL	12
9.0	WASTE MANAGEMENT	
	9.1 Summary of Waste disposed of in this month	12
	9.2 Advice on the Solid and Liquid Waste Management Status	12
10.0	ENVIRONMENATL NON-CONFORMANCE	
	10.1 Summary of air quality, noise and marine water quality	13
	10.2 Summary of Environmental Complaints	13
	10.3 Summary of Notification of Summons and Prosecution	13
11.0	CONCLUSIONS AND RECOMMENTATIONS	13 - 14
12.0	FUTURE KEY ISSUE	14



APPENDIX

А	Organization Chart and Lines of Communication
B1	Calibration Certificates for Impact Air Quality Monitoring Equipments
B2	Impact Air Quality Monitoring Results
B3	Graphical Plots of Impact Air Quality Monitoring Data
C1	Calibration Certificates for Impact Marine Water Quality Monitoring Equipments
C2	Impact Marine Water Quality Monitoring Results
C3	Graphical Plots of Impact Marine Water Quality Monitoring Data
D1	Calibration Certificates for Impact Noise Monitoring Equipments
D2	Impact Noise Monitoring Results
D3	Graphical Plots of Impact Noise Monitoring Data
E	Weather Condition
F	Event-Action Plans
G	Construction Programme
Н	Weekly ET's Site Inspection Record
I	Implementation Schedule of Mitigation Measures
J	Site General Layout Plan
K	Monthly Summary Waste Flow Table
L	Monitoring Schedule for the Coming Month
М	Reporting Month Monitoring Schedule
Ν	QA/QC Results of Laboratory Analysis
0	Complaint Log

FIGURES

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

TABLES

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

EXECUTIVE SUMMARY

This monthly Environmental Monitoring and Audit (EM&A) report No.47 was prepared by Environmental Team (ET) of ETS-Testconsult Ltd (ETL) for the "Contract No. CV/2015/07 Handling of Surplus Public Fill (2016-2018) – Tuen Mun (TM) Area 38 Fill Bank" (The Project).

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at TM Area 38 in March 2021.

Site Activities

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

- 1. Operation of the TM38 Fill Bank;
- 2. Operation of crushing plant at TMFB;
- 3. Carrying out preliminary sorting of Public Fill for 3RS project at TMFB;
- 4. Operation of Fixed Rigid Platform;
- 5. Setting up a Digital Works Supervision System (DWSS)

Environmental Monitoring Progress

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

- 24-hour TSP Monitoring: 5 Occasions at 2 designated locations
- 1-hour TSP Monitoring: 15 Occasions at 2 designated locations
- Noise, Daytime: 9 Occasions at 2 designated locations
- Marine Water Quality Monitoring: 13 Occasions at 4 designated locations
- Weekly-site inspection: 5 Occasions

Air Monitoring

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

Noise Monitoring

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

Marine Water Quality Monitoring

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

Weekly Site Inspection

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

Environmental Complaints, Notification of summons and successful prosecutions

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

Future Key Issues

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

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



1.0 INTRODUCTION

China Harbour – Zhen Hua Joint Venture (CHZH-JV) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Contract No: CV/2015/07 –Handling of Surplus Public Fill (2016-2018) – Tuen Mun (TM) Area 38 Fill Bank" (The Project).

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

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

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

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

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tuen Mun Area 38 in March 2021.

2.0 PROJECT INFORMATION

2.1 Construction Programme

Details of construction programme are shown in Appendix G.

2.2 Project Organization and Management Structure

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

2.3 Contact Details of Key Personnel

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

Organization	Name of Key Staff	Project Role	Tel. No.	Fax No.	
CEDD	Leo Lam, T M Yeung, May Lau	Engineer's Representative 2762 5555		2714 0113	
IEC (Acuity)	Mr. F C Tsang	IEC	2698 9097	2333 1316	
Contractor (CHZH-JV)	Zhou Chang Ying	Senior Project Manager	96266299	22474108	
ET (ETL)	C. L. Lau	ET Leader	2946 7791	2695 3944	

Table 2.1 Contact Details of Key Personnel



ENA10979 Monthly EM&A Report No.46

3.0 CONSTRUCTION PROGRESS IN THIS REPORTING MONTH

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

1. Operation of the TM38 Fill Bank;

2. Operation of crushing plant at TMFB;

- 3. Carrying out preliminary sorting of Public Fill for 3RS project at TMFB;
- 4. Operation of Fixed Rigid Platform t;

5. Setting up a Digital Works Supervision System (DWSS)

4.0 AIR QUALITY MONITORING

4.1 Monitoring Requirement

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

4.2 Monitoring Equipment

Both 1-hour and 24-hour TSP air quality monitoring was performed using a GMWS2310 High Volume Air Sampler (HVS) located at each of the designated monitoring station. Table 4.1 summarizes the equipment used in the air quality monitoring programme. Copies of the calibration certificates for the HVS and calibrator are attached in Appendix B1.

Table 4.1	Air Quality Monitoring Equipment
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Equipment	Model and Make	
HVS	Greasby GMWS2310	
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.

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

4.4 Monitoring Locations and Schedule

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

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

The locations of monitoring stations are shown in Figure 1.

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

Monthly EM&A Report No.46

ENA10979

4.5 Monitoring Methodology

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

Instrumentation

High volume sampler, as HVS, (Greasby GMWS2310) complete with appropriate sampling inlets were employed for both 1-hour and 24-hour TSP monitoring. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Installation

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

Operation/Analytical Procedures

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

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

Maintenance & Calibration

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

Wind Data Monitoring

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



4.6 Action and Limit Levels

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

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

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

4.7 Event-Action Plans

Please refer to Appendix F for details.

4.8 Results and Observations

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

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

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

5.0 MARINE WATER QUALITY MONITORING

5.1 Monitoring Requirements

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

5.2 Monitoring Locations

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

5.3 Monitoring Parameters and Frequency

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

Monitoring Station	Parameter	Frequency	No. of Depths
	Depth (m)		
Control Stations:	Temperature (°C)		
TM-FC1 (Mid-ebb) and TM-FC2 (Mid-flood)	Dissolved Oxygen	3 days/week,	3
	(mg/L and % saturation)	2 tides/day	(Surface, mid-
Impact Stations:	Turbidity (NTU)	2 11063/0ay	depth & bottom)
TM-FM1 and TM-FM2	Salinity (ppt)		
·····	Suspended solids (mg/L)		

Table 5.1 Monitoring Parameters and Frequency of the marine water



5.4 Monitoring Methodology and Equipment Used

For Location of the monitoring stations

Global Positing System (GPS)

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

For Water Depth measurement

Echo Sounder

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

For In-situ Water Quality Measurement

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

Dissolved Oxygen, Salinity, Turbidity and Temperature Measuring Equipment

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

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

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

For Water Sampling and Sample Analysis

In-situ monitoring was carried out at three depths: 1 meter below water surface, at mid-depth and 1 meter above the seabed. At each sampling depth, duplicate readings of dissolved oxygen content and turbidity were taken. The probes were drop into water, two consecutive measurements of dissolved oxygen (DO), dissolved oxygen saturation (DOS), turbidity and salinity were taken. The difference between the two readings of each set was more than 25% of the value of the first reading while a third measurement would be conducted to ensure data precision.

Water Sampler

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

Water Container

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



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

ure

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

In-situ measurement

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

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

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

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	02/01/21	01/04/21	ET/EW/008/010*
Water Depth	Speedtech SM-5			ET/EW/002/08

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

Remark: Indicates the instrument should be calibrated on site.

5.5 Action and Limit Levels

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

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



5.6 Event and Action Plan

Please refer to the Appendix F for details.

5.7 Monitoring Duration and Period in this reporting period

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

Table 5.5	Time Schedule of Marine Water Quality Monitoring	

March 2021							
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
	1	2	3	4	5	6	
		•		•		•	
7	8	9	10	11	12	13	
		▼		▼		▼	
14	15	16	17	18	19	20	
		▼		▼		▼	
21	22	23	24	25	26	27	
	▼			▼		▼	
28	29	30	31				
		▼					

Remark: 1. (\mathbf{V}) =Marine water quality monitoring carried out by ET

5.8 Marine Water Quality Monitoring Results

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

			D				
Tide Station	Exceedance Level	Surface & Middle	Bottom	Turbidity	SS	Total	
	TM-FM1	Action	0	0	0	0	0
Mid-Ebb	1101-1-1011	Limit	0	0	0	0	0
	TM-FM2	Action	0	0	0	0	0
		Limit	0	0	0	0	0
Mid- Flood	Aid- lood TM-FM2 Action	Action	0	0	0	0	0
		Limit	0	0	0	0	0
		Action	0	0	0	0	0
		Limit	0	0	0	0	0
т	atal	Action	0	0	0	0	0
Total		Limit	0	0	0	0	0

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

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

6.0 Noise Monitoring

6.1 Monitoring Requirements

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

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

6.2 Monitoring Equipment



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

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

Equipment	Model
Sound Level Meter	Rion NL-31 / Rion NL-52
Calibrator	Rion NC-73 / Castle GA607

6.3 Monitoring Parameters, Duration and Frequency

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

Table 6.2	Duration, Frequencies and Parameters of Noise Monitoring
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Time period	Duration/min	Parameters	Frequency
Day-time: 0700-1900 hrs on normal weekday	30	L _{eq} , L ₁₀ , L ₉₀	Twice per week

6.4 Monitoring Locations and Period

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

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

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

6.5 Monitoring Procedures and Calibration Details

Operation/Analysis Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- The battery condition was checked to ensure the correct functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting : Fast
 - Time measurement : 30 min
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1000HZ. If the difference in the calibration level before and after measurement was more than 1dB, the measurement would be considered invalid and repeat measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with a portable wind meter.
- During the monitoring period, the Leq, L10 and L90 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Free Field correction to the measurements should be made. Correction factor of +3dB(A) should be made to the free Field measurements. Noise monitoring would be cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind gusts exceeding 10m/s.

Maintenance and Calibration



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

6.6 Action and Limit Levels

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

Table 6.3 Action and Limit Levels for noise monitoring

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

6.7 Event-Action Plans

Please refer to the Appendix F for details.

6.8 Results and Observation

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

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

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

7.0 ENVIRONMENTAL AUDIT

7.1 Weekly ET Site Inspections and EPD's Site Inspection

7.1.1 Weekly ET Site Inspections

Weekly site inspections were carried out by ET to monitor the timely implementation of proper environmental pollution control and mitigation measures for the Project. In this reporting month, five weekly site inspections were conducted on 04, 11, 18, 25 and 31 March 2021. Summaries of key findings of weekly ET site inspections in this month are described in Table 7.1.

Date	Key Findings	Action(s) Taken recommended by ET	Action(s) Taken by the Contractor during the site audit	Rectification Status by ET						
04 March 2021	No defective work or c	observation was recorded duri	ng the weekly ET site	inspection						
11 March 2021	Dust emission were observed near rock crusher (New item)	Provide the water spray properly		Follow-up						
18 March 2021	Dust emission were observed near rock crusher (Previous item)	Provide the water spray properly	Water sprays were provided	Closed						
25 March 2021	Muds were accumulated near 3RS platform (New item)	To clean the accumulated mud properly		Follow-up						
31 March 2021	Muds were accumulated near 3RS platform (Previous item)	To clean the accumulated mud properly	Accumulated muds were cleaned	Closed						

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



7.1.2 EPD's Site Inspection

No EPD's site inspection was carried out at TMFB on March 2021..

7.2 Review of Environmental Monitoring Procedures

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

Air Quality Monitoring

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

Water Quality Monitoring

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

Noise Monitoring

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

7.3 Status of Environmental Licensing and Permitting

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

Description	Permit No.	Valid	Period	Section
		From	То	
Environmental Permit	EP- 210/2005/D	25/05/20		Issued
Chemical Waste Producer	5296-421- C4184-01	20/04/17		Spent battery containing heavy metals and spent lubricating oil
Effluent Discharge License	WT00028701 -2017	25/09/17	30/09/22	Effluent arising from vehicle washing and dust suppression activities and contaminated surface runoff treated by screening facilities and sedimentation tanks (sedimentation and chemical precipitation).
Marine Dumping Permit	EP/MD/21- 079	22/02/21	31/03/21	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	7027643	22/05/17		

Table 7.2 Summary of environmental licensing and permit status



t t	Notification Pursuant to Section 3(1) of the Air Pollution Control	415661	12/04/17	
((Construction Dust)			

7.4 Implementation Status

7.4.1 Implementation Status of Environmental Mitigation Measures

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

7.4.2 Implementation Status of Event and Action Plan

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

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

Hence, no further action was required to be implemented.

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

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

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

Complain	nts logged	Summor	ns served	Successful Prosecution								
March 2021 Cumulative		March 2021	Cumulative	March 2021 Cumulati								
0 3		0	0	0	0							

Table 7.3 Summary of Environmental Complaints and Prosecutions

8.0 LANDSCAPE AND VISUAL

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

- The maximum stockpiling height at the Fill Bank was limited to a maximum of +40 mPD;
- The Contractor hydroseeded the outer slopes of the Fill Bank as far as practicable;
- The Contractor removed the stockpile of public fill in a sequence to allow the outer hydroseeded to be removed later than other portions as far as practicable; and
- Lighting was set to minimize night-time glare.

9.0 WASTE MANAGEMENT

9.1 Summary of Waste disposed of in this period

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

Table 9.1	Actual amounts of Waste generated in this reporting month	

Waste Type	Actual Amount	Disposal Locations
Public Fill ('000m³)	0	Tuen Mun 38 Fill Bank
C&D Waste ('000kg)	55.55	WENT Landfill



0.2	Advice on the Solid and Liquid Waste	Management Status	
	Chemical Waste (kg)/(L)	0(L)	Collected by licensed collector

Advice on the Solid and Liquid Waste Management Status 9.Z

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

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

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

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

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

10.0 **ENVIRONMENTAL NON-CONFORMANCE**

10.1 Summary of air quality, noise and marine water quality

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

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

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

10.2 **Summary of Environmental Complaints**

No complaint was received in this reporting period.

10.3 Summary of Notification of Summons and Prosecution

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

CONCLUSIONS AND RECOMMENDATIONS 11.0

Conclusions

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

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

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

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



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

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

Recommendations

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

Air Quality

- Ensure the frequency of water spraying on haul roads, unloading areas and stockpiles to be sufficient to suppress the dust sources;
- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Provide water spraying onto the truckloads during inspection of fill material;
- Conduct road sweeping on all paved haul roads and public roads especially outside and near the site egress by the road sweeper. Undertake water spraying on stockpiling area by water bowser;
- Erect adequate speed limit signs to advise the truck drivers of the speed limit;
- Operate mist spraying systems and automatic water sprinklers in the Fill Bank;
- Implement the dust mitigation measures for the construction activities;
- Designate proper haul roads to ensure effective water spraying; and
- Ensure all vehicles to be washed before leaving the site egress by provision, operation and maintenance of automatic wheel washing facilities.

Noise

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

Water Quality

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

Chemical and Waste Management

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

Landscape and Visual

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

12.0 FUTURE KEY ISSUES

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

- Dust generation from activities on site, such as vehicular movements along unpaved area and rock crushing activities;
- Noise impact from operating equipment and machinery on site;



ENA10979 Monthly EM&A Report No.46

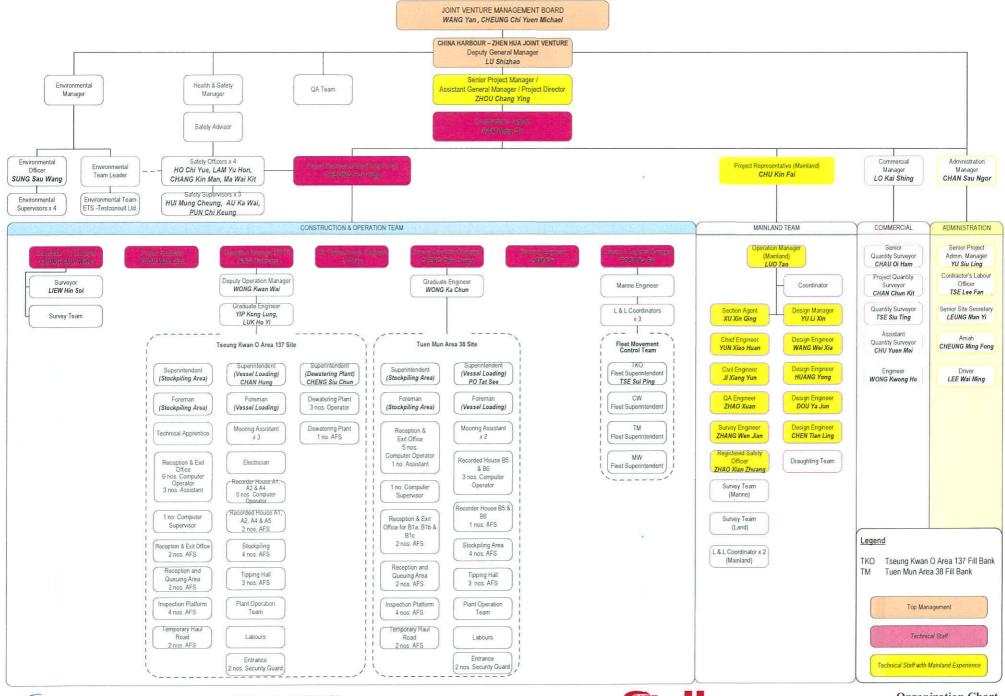
- Wastewater and surface runoff from the site discharged into nearby water body;
- Regular checking of the drainage system;
- Flood prevention; and
- Noise from operation of the crushing plant.

- END OF REPORT -



Appendix A

Project Organization Chart



Civil Engineering and Development Department Contract No. CV/2015/07 Handling of Surplus Public Fill (2016-2018)



Organization Chart Rev.20



Appendix B1

Calibration Certificates for Impact Air Quality Monitoring Equipments



東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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

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

31

0.88

Κ

29

0.84

Calibration Report

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

 Manufacturer
 :
 Graseby GMW
 Date of Calibration
 :
 16 February 2021

 Serial No.
 :
 2484 (ET / EA / 003 / 27)
 Calibration Due Date
 :
 15 April 2021

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

mm Hg

Flow recorder reading (cfm)

Pressure :

Qstd (Actual flow rate, m³/min)

762.06

Results

Method

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

56

1.57

46

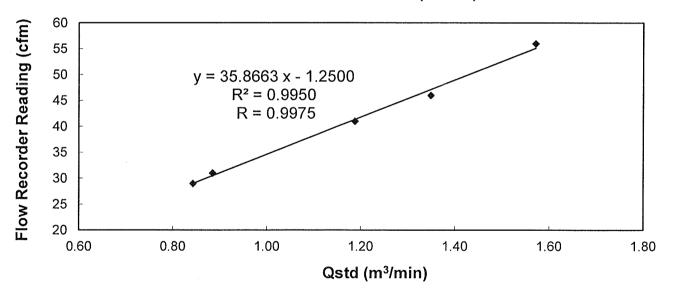
1.35

Temp. :

41

1.19

294



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

CHAN, Wai Man (Technician)

Checked by :

LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -

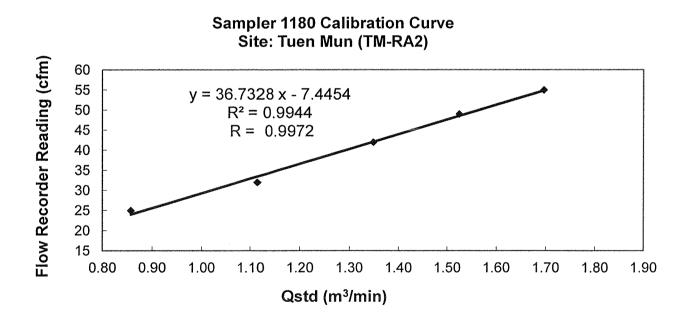


東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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

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

Manufacturer	:	Graseby GMW	Date of Calibration			16 February 2021							
Serial No.	:	1180 (ET/EA/003/04)	ue Date	:	15 Ap	oril 2021							
Method	:	Based on Operations Manual for the 5-p manufactured by Tisch TE-5025 A	Based on Operations Manual for the 5-point calibration using standard calibration kit nanufactured by Tisch TE-5025 A										
Results	:	Flow recorder reading (cfm)	55	49		42	32	25					
		Qstd (Actual flow rate, m ³ /min)	1.70	1.52		1.35	1.11	0.86					
		Pressure : 762.06 mm H	Чg	Temp. :		294	К						



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

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

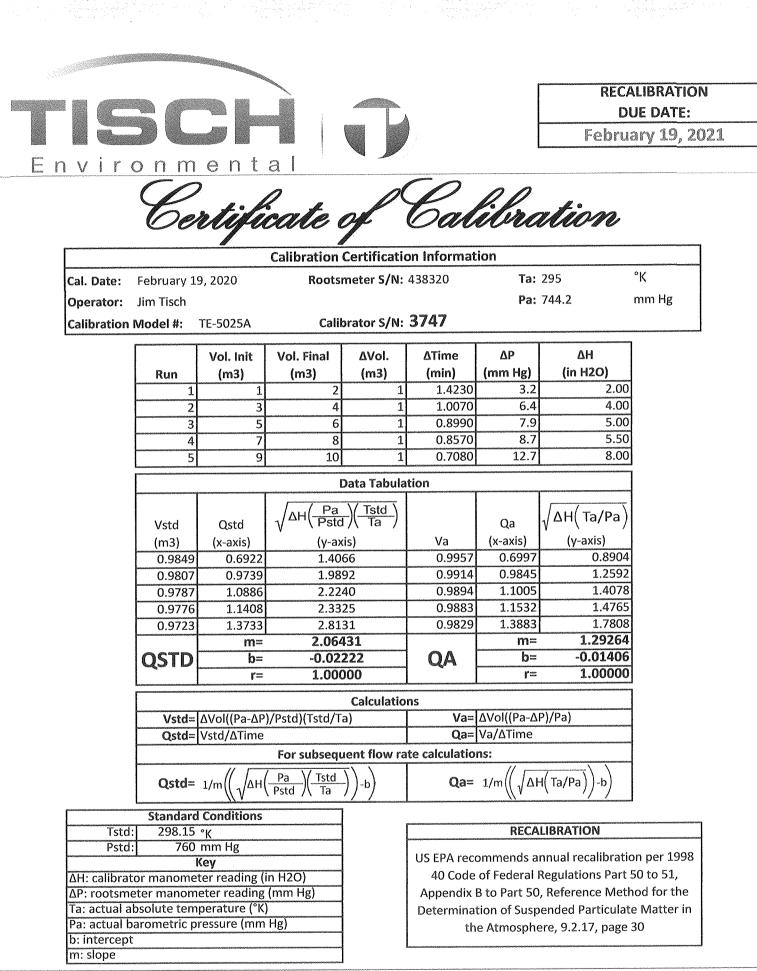
Calibrated by :

CHAŃ, Wai Man (Technician)

Checked by

LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -



Tisch Environmental, Inc.

145 South Miami Avenue

Village of Cleves, OH 45002

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



Appendix B2

Impact Air Quality Monitoring Results



Summary of 24-hr TSP Monitoring Results

:

Sta	art Finish Elapse Time		e Time	Sampling Flow Rate (m ³ /min.)		Average	Filter Weight (g)		$C_{2222} \left(\sqrt{2} \left(m^3 \right) \right)$			
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
06/03/21	9:05	07/03/21	9:05	12652.31	12676.31	24.00	1.0107	1.0107	1.0107	2.7234	2.8408	81
12/03/21	8:30	13/03/21	8:30	12679.31	12703.31	24.00	1.0386	1.0386	1.0386	2.7275	2.8447	78
18/03/21	10:15	19/03/21	10:15	12706.31	12730.31	24.00	1.0107	1.0107	1.0107	2.7242	2.8483	85
24/03/21	8:00	25/03/21	8:00	12733.31	12757.31	24.00	1.0665	1.0665	1.0665	2.7167	2.8354	77
30/03/21	9:10	31/03/21	9:10	12760.31	12784.31	24.00	1.0107	1.0107	1.0107	2.7221	2.8442	84

Monitoring Station : TM-A1

Monitoring Station

TM-RA2

Sta	art	Fin	iish	Elapse Time		Sampling Flow Rate (m ³ /min.)		(m ³ /min.)	Average	Filter Weight (g)		$Cono \left(u \sigma (m^3) \right)$
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
06/03/21	8:55	07/03/21	8:55	27916.53	27940.53	24.00	1.1827	1.1827	1.1827	2.7261	2.8714	85
12/03/21	8:30	13/03/21	8:30	27943.53	27967.53	24.00	1.1555	1.1555	1.1555	2.7267	2.8619	81
18/03/21	10:27	19/03/21	10:27	27970.53	27994.53	24.00	1.2100	1.2100	1.2100	2.7286	2.8827	88
24/03/21	8:00	25/03/21	8:00	27997.53	28021.53	24.00	1.1827	1.1827	1.1827	2.7182	2.8591	83
30/03/21	9:00	31/03/21	9:00	28024.53	28048.53	24.00	1.1827	1.1827	1.1827	2.7257	2.8770	89



Summary of 1-hr TSP Monitoring Results

Monitoring	g Station	:	ТМ	-A1							
Date	Time		Elapse Time		Sampling	Flow Rate	e (m³/min.)	Average	Filter W	C_{0}	
Dale	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
02/03/21	9:53	10:53	12649.31	12650.31	1.00	1.0386	1.0386	1.0386	2.7223	2.7341	189
02/03/21	10:54	11:54	12650.31	12651.31	1.00	1.0386	1.0386	1.0386	2.7215	2.7332	188
04/03/21	14:39	15:39	12651.31	12652.31	1.00	1.0107	1.0107	1.0107	2.7215	2.7308	153
09/03/21	9:25	10:25	12676.31	12677.31	1.00	1.0665	1.0665	1.0665	2.7216	2.7365	233
09/03/21	10:26	11:26	12677.31	12678.31	1.00	1.0665	1.0665	1.0665	2.7205	2.7332	198
11/03/21	9:25	10:25	12678.31	12679.31	1.00	1.0386	1.0386	1.0386	2.7208	2.7299	146
13/03/21	10:36	11:36	12703.31	12704.31	1.00	1.0665	1.0665	1.0665	2.7210	2.7325	180
13/03/21	15:14	16:14	12704.31	12705.31	1.00	1.0665	1.0665	1.0665	2.7283	2.7390	167
16/03/21	10:40	11:40	12705.31	12706.31	1.00	1.0386	1.0386	1.0386	2.7230	2.7358	205
20/03/21	9:10	10:10	12730.31	12731.31	1.00	1.0386	1.0386	1.0386	2.7166	2.7276	177
20/03/21	10:11	11:11	12731.31	12732.31	1.00	1.0386	1.0386	1.0386	2.7160	2.7280	193
23/03/21	9:10	10:10	12732.31	12733.31	1.00	1.0107	1.0107	1.0107	2.7204	2.7307	170
25/03/21	9:25	10:25	12757.31	12758.31	1.00	1.0107	1.0107	1.0107	2.7225	2.7322	160
25/03/21	10:34	11:34	12578.31	12579.31	1.00	1.0107	1.0107	1.0107	2.7228	2.7330	168
27/03/21	14:23	15:23	12759.31	12760.31	1.00	1.0386	1.0386	1.0386	2.7266	2.7349	133

Summary of 1-hr TSP Monitoring Results



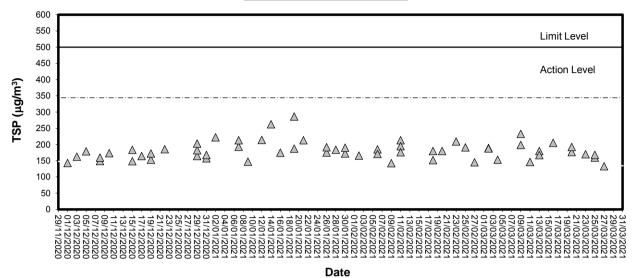
Monitoring	g Station	:	TM-	RA2					,		
Date	Time		Elapse Time		Sampling	Flow Rate (m ³ /min.)		Average	Filter Weight (g)		O_{2}
	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
02/03/21	9:53	10:53	27913.53	27914.53	1.00	1.2100	1.2100	1.2100	2.7212	2.7364	209
02/03/21	11:00	12:00	27914.53	27915.53	1.00	1.2100	1.2100	1.2100	2.7243	2.7388	200
04/03/21	14:56	15:56	27915.53	27916.53	1.00	1.1827	1.1827	1.1827	2.7236	2.7357	171
09/03/21	9:15	10:15	27940.53	27941.53	1.00	1.1555	1.1555	1.1555	2.7286	2.7457	247
09/03/21	10:16	11:16	27941.53	27942.53	1.00	1.1555	1.1555	1.1555	2.7265	2.7427	234
11/03/21	9:15	10:15	27942.53	27943.53	1.00	1.1827	1.1827	1.1827	2.7218	2.7330	158
13/03/21	10:42	11:42	27967.53	27968.53	1.00	1.1827	1.1827	1.1827	2.7255	2.7390	190
13/03/21	15:21	16:21	27968.53	27969.53	1.00	1.1827	1.1827	1.1827	2.7240	2.7362	172
16/03/21	9:20	10:20	27969.53	27970.53	1.00	1.2100	1.2100	1.2100	2.7197	2.7343	201
20/03/21	8:55	9:55	27994.53	27995.53	1.00	1.2100	1.2100	1.2100	2.7217	2.7351	185
20/03/21	9:56	10:56	27995.53	27996.53	1.00	1.2100	1.2100	1.2100	2.7214	2.7359	200
23/03/21	9:16	10:16	27996.53	27997.53	1.00	1.1827	1.1827	1.1827	2.7273	2.7404	185
25/03/21	9:18	10:18	28021.53	28022.53	1.00	1.1827	1.1827	1.1827	2.7209	2.7344	190
25/03/21	10:25	11:25	28022.53	28023.53	1.00	1.1827	1.1827	1.1827	2.7245	2.7395	211
27/03/21	14:30	15:30	28023.53	28024.53	1.00	1.2100	1.2100	1.2100	2.7257	2.7374	161



Appendix B3

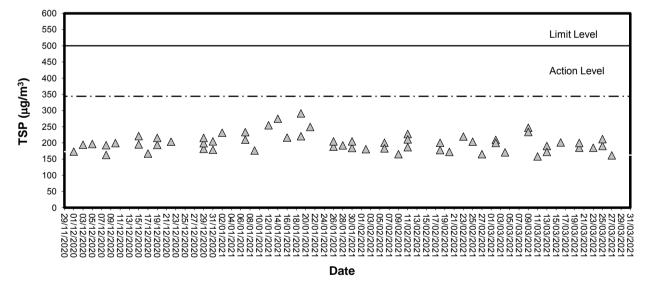
Graphical Plots of Impact Air Quality Monitoring Data



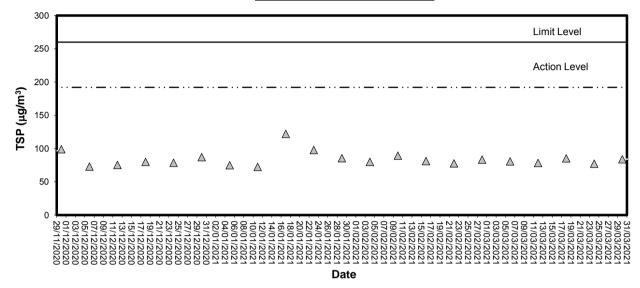


<u>1-hour TSP level at TM-A1</u>

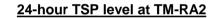


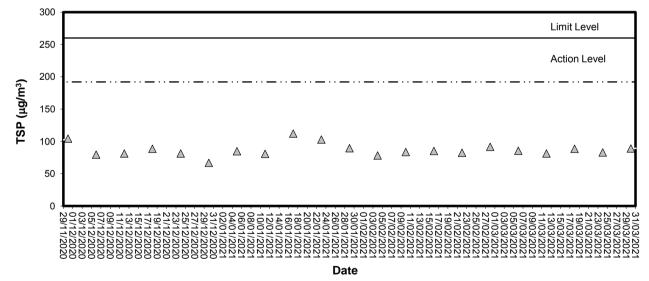






24-hour TSP level at TM-A1







Appendix C1

Calibration Certificates for Impact Marine Water Quality Monitoring Equipments



Calibration Due Date

1/4/2021

•

Performance Check / Calibration of Multiparameter Water Quality Meter Equipment Ref. No. : ET/EW/008/010 Manufacturer : YSI Model No. : Pro DSS Serial No. : 18E105421

Date of Calibration :

<u>Results</u>

1. Temperature

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

Reading of Reference Thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
18.5	18.3	-0.2
25.0	25.1	+0.1
27.2	27.0	-0.2

Tolerance Limit ($^{\circ}$ C): ± 2.0

2. pH

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

2/1/2021

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

Tolerance Limit (pH unit): ± 0.10

3. Conductivity

(Method Reference: APHA 19ed 2510 B)

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	148.2	+0.9
1412	1437	+1.8
12890	13215	+2.5
58760	60199	+2.4

Tolerance Limit (μ S/cm): ± 10.0%

4. Salinity

(Method Reference: APHA 19ed 2520 B)

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)			
10.0	9.70	-3.0			
20.0	18.90	-5.5			
30.0	28.40	-5.3			

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



Performance Checl	<u>k / Calibration of Multiparame</u>	ter Water Quality Meter
Equipment Ref. No. : ET/EW/008/0)10 Manufactur	er : YSI
Model No. : Pro DSS	Serial No.	: 18E105421
Date of Calibration : $2/1/2021$	Calibration	
5. Dissolved Oxygen (Method Reference: APHA 19ed 4500-		
Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.37	1.41 4.35	+0.04
5.90	5.93	+0.07 +0.03
Tolerance Limit (mg/L): ± 0.20 6. Turbidity (Method Reference: APHA 19ed 2130 I	3)	
Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
10	9.41	-5.9
40	38.36	-4.1
100	99.11	-0.9
400 Tolerance Limit (NTU): ± 10.0%	387.58	-3.1
	nply [#] with the specified requirements and is d	leemed acceptable [#] / unacceptable. [#] for use.
[#] Delete as appropriate		· · · · · · · · · · · · · · · · · · ·
Calibrated by :	Appro	oved by :

1

7

7

1



Appendix C2

Impact Marine Water Quality Monitoring Results



Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		ed Oxygen ation (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Duration	Weather Condition	1)	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	20.8	26.9 26.8	26.9	6.77 6.79	6.78		88.6 88.8	88.7	4.91 5.02	4.97		4.1 4.3	4.2	
2/3/21	9:05:22	20/Cloudy	Middle	10.3	20.7	27.4 27.4	27.4	6.67 6.62	6.65	6.71	87.3 86.7	87.0	5.08	5.11	5.11	5.2	- 5.1	5.3
			Bottom	19.5	20.4	28.2	28.2	6.38	6.33	6.33	83.5	82.8	5.23	5.25		6.4	6.5	
			Surface	1.0	20.5	28.2 27.4	27.4	6.27 6.68	6.65		82.0 87.2	86.8	5.26 4.32	4.28		6.5 6.1	6.4	
1/2/24	10 17 07			-		27.4 27.6		6.62 6.46		6.56	86.4 84.3		4.23 5.02			6.6 9.6		
4/3/21	10:47:37	18/Cloudy	Middle	10.4	20.5	27.6 27.7	27.6	6.46 6.40	6.46		84.3 83.5	84.3	5.03 5.33	5.03	4.88	9.1 13.3	9.4	9.7
			Bottom	19.9	20.5	27.7	27.7	6.40	6.40	6.40	83.5	83.5	5.37	5.35		13.2	13.3	
			Surface	1.0	20.7	27.4 27.4	27.4	6.82 6.67	6.75	6.60	89.3 87.3	88.3	4.02 3.87	3.95		5.0 5.2	- 5.1	
6/3/21	11:24:33	21/Cloudy	Middle	10.9	20.4	27.7 27.7	27.7	6.47 6.44	6.46	0.00	84.4 84.1	84.3	3.70 3.71	3.71	4.39	6.5 6.2	6.4	6.0
			Bottom	20.8	20.4	27.9 27.9	27.9	6.21 6.14	6.18	6.18	81.0 80.1	80.6	5.54 5.52	5.53		6.5 6.4	6.5	
			Surface	1.0	20.7	27.2	27.1	6.47	6.48		84.6	84.6	5.19 5.05	5.12		4.5	4.6	
9/3/21	15:33:16	19/Fine	Middle	10.5	20.6	27.0 28.5	28.5	6.48 6.28	6.24	6.36	84.6 82.6	82.1	4.84	4.63	5.12	4.7 7.9	8.0	6.9
			Bottom	20.1	20.5	28.5 28.6	28.6	6.20 6.06	6.05	6.05	81.5 79.5	79.4	4.42 5.85	5.61	-	8.0 8.2	8.3	-
						28.6 29.7		6.04 7.02		0.00	79.3 96.2		5.36 2.87			8.3 7.6		
			Surface	1.0	22.4	29.7 29.7	29.7	7.02 6.75	7.02	6.87	96.2 91.7	96.2	2.85 2.67	2.86		7.4 9.3	7.5	
11/3/21	10:05:19	21/Fine	Middle	11.1	22.0	29.7	29.7	6.67	6.71		90.6	91.2	2.61	2.64	2.66	9.8	9.6	9.9
			Bottom	21.1	22.0	29.7 29.7	29.7	6.64 6.64	6.64	6.64	90.3 90.3	90.3	2.46 2.50	2.48		12.5 12.7	12.6	
			Surface	1.0	21.1	27.3 27.3	27.3	6.47 6.48	6.48		85.3 85.5	85.4	3.94 3.97	3.96		14.6 14.9	- 14.8	
13/3/21	9:44:20	21/Fine	Middle	10.3	21.0	27.9 27.9	27.9	6.33 6.30	6.32	6.40	83.5 83.2	83.4	4.30 4.33	4.32	4.38	13.5 13.4	- 13.5	14.9
			Bottom	19.6	20.9	28.0	28.0	6.26	6.26	6.26	82.7	82.7	4.87	4.86		16.8	- 16.5	
			Surface	1.0	21.8	28.0 27.0	27.0	6.26 6.61	6.60	<u> </u>	82.6 88.0	87.9	4.85 4.00	3.94		16.2 14.2	- 14.4	
16/3/21	10:15:43	22/cloudy	Middle	11.1	21.5	27.0 27.5	27.4	6.59 6.38	6.39	6.50	87.8 84.9	85.0	3.88 4.13	4.15	4.15	14.6 14.2	- 14.3	16.3
10/3/21	10.15.43	22/cloudy			-	27.3 27.7		6.40 6.29			85.1 83.7		4.17 4.35	-	4.10	14.4 20.3		10.5
			Bottom	21.2	21.5	27.7	27.7	6.28	6.29	6.29	83.5	83.6	4.37	4.36		20.2	20.3	



Date	Sampling	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Duration	Weather Condition	1)	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	22.5	25.8 25.8	25.8	6.98 6.91	6.95		93.5 92.6	93.1	3.47 3.46	3.47		11.4 10.8	11.1	
18/3/21	11:09:38	23/Fine	Middle	10.6	22.4	26.2 26.2	26.2	6.66 6.66	6.66	6.80	89.3 89.2	89.3	3.82 3.92	3.87	3.90	11.8 11.0	11.4	11.4
			Bottom	20.1	21.9	27.8 27.8	27.8	6.25 6.19	6.22	6.22	83.8 83.0	83.4	4.36 4.38	4.37		11.6 11.8	11.7	
			Surface	1.0	23.3	25.1 25.2	25.1	7.15 7.10	7.13		96.8 96.1	96.5	3.36 3.33	3.35		9.4 9.9	9.7	
20/3/21	11:25:25	24/Fine	Middle	10.8	22.6	26.7 26.7	26.7	6.68 6.61	6.65	6.89	90.2 89.3	89.8	4.15 3.91	4.03	3.94	9.6 9.8	9.7	10.4
			Bottom	20.6	22.1	27.9 27.9	27.9	6.01 5.99	6.00	6.00	81.0 80.7	80.9	4.43 4.47	4.45		11.7 11.7	11.7	
			Surface	1.0	22.8	29.4 29.4	29.4	7.14	7.14		98.2 97.9	98.1	5.42 5.55	5.49		10.8 10.2	10.5	
22/3/21	10:39:48	17/Fine	Middle	10.4	22.3	29.4 29.5	29.4	6.91 6.91	6.91	7.02	94.2 94.2	94.2	5.60 5.49	5.55	5.64	10.8 10.0	10.4	11.6
			Bottom	19.8	22.2	29.5 29.5	29.5	6.91 6.91	6.91	6.91	94.2 94.2	94.2	5.88 5.90	5.89		14.1 13.7	13.9	
			Surface	1.0	22.9	29.7 29.7	29.7	7.37 7.40	7.39		101.8 102.3	102.1	2.73 2.75	2.74		3.7 4.0	3.9	
25/3/21	15:34:33	22/Fine	Middle	11.1	22.2	29.7 29.7	29.7	6.91 6.84	6.88	7.13	94.1 93.1	93.6	2.60	2.56	2.71	4.0	3.9	4.0
			Bottom	21.1	22.0	29.7 29.7	29.7	6.66 6.64	6.65	6.65	90.6 90.3	90.5	2.87 2.76	2.82		3.7 4.8	4.3	
			Surface	1.0	22.5	29.4 29.4	29.4	6.99 6.99	6.99		95.7 95.7	95.7	5.44 5.47	5.46		10.0 10.3	10.2	
27/3/21	9:42:17	24/Cloudy	Middle	11.1	22.3	29.4 29.4	29.4	6.89 6.89	6.89	6.94	93.9 93.9	93.9	5.69 5.71	5.70	5.73	13.2 13.1	13.2	12.2
			Bottom	21.2	22.2	29.6 29.5	29.6	6.94 6.90	6.92	6.92	94.3 94.1	94.2	6.03 6.05	6.04		13.2 13.4	13.3	
			Surface	1.0	23.4	28.1 28.1	28.1	7.02 7.04	7.03		96.9 97.1	97.0	4.98 4.44	4.71		8.3 8.4	8.4	
30/3/21	10:15:27	26/Fine	Middle	11.3	23.3	28.2 28.2	28.2	6.96 6.95	6.96	6.99	95.9 95.7	95.8	5.01 5.04	5.03	4.99	9.1 9.8	9.5	9.4
			Bottom	21.6	23.2	28.5 28.5	28.5	6.86 6.84	6.85	6.85	94.5 94.3	94.4	5.22 5.27	5.25		10.2 10.4	10.3	



Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		ed Oxygen ation (%)	Τι	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Dale	Duration	Weather Condition	(1	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	20.9	26.6 26.7	26.6	6.79 6.79	6.79		88.8 88.8	88.8	5.23 5.10	5.17		9.0 9.1	9.1	
02/03/21	8:41:32	20/Cloudy	Middle	8.1	20.7	27.4	27.4	6.65	6.64	6.72	87.1	87.0	5.47	5.49	5.37	11.5	11.4	9.9
			Bottom	15.1	20.6	27.4 27.7	27.7	6.63 6.52	6.50	6.50	86.9 85.3	85.0	5.50 5.40	5.46		11.2 9.2	9.4	
			BOLLOIN	15.1	20.0	27.7 27.3	21.1	6.47 6.63	0.50	0.50	84.6 86.4	65.0	5.52 3.77	5.40		9.5 3.5	9.4	
			Surface	1.0	20.5	27.3	27.3	6.63	6.63	6.58	86.5	86.5	3.87	3.82		3.7	3.6	
04/03/21	10:26:19	18/Cloudy	Middle	8.7	20.5	27.4 27.4	27.4	6.53 6.53	6.53		85.2 85.2	85.2	3.87 4.02	3.95	4.13	8.5 8.9	8.7	7.1
			Bottom	16.4	20.5	27.6	27.6	6.42	6.42	6.42	83.8	83.8	4.64	4.62		9.2	9.1	
			Surface	1.0	20.8	27.6 27.4	27.4	6.41 6.82	6.76		83.7 89.4	88.5	4.60 3.46	3.47		9.0 8.8	8.9	
			Surface	1.0	20.0	27.4 27.6	27.4	6.69 6.61	0.70	6.69	87.6 86.7	C.00	3.47 3.82	3.47	-	9.0 8.2	0.9	
06/03/21	11:04:17	21/Cloudy	Middle	8.4	20.7	27.5	27.6	6.64	6.63		87.1	86.9	3.83	3.83	3.71	8.4	8.3	8.3
			Bottom	15.9	20.4	27.8 27.8	27.8	6.33 6.29	6.31	6.31	82.7 82.1	82.4	3.80 3.86	3.83		7.9 7.6	7.8	
			Surface	1.0	20.7	26.4	26.7	6.76	6.70		88.1	87.4	4.92	4.96		6.5	6.6	
09/03/21	15:11:17	19/Fine	Middle	8.6	20.6	27.0 28.4	28.4	6.64 6.38	6.33	6.52	86.6 83.9	83.2	5.00 4.39	4.35	4.85	6.7 6.1	6.2	6.4
09/03/21	13.11.17	13/11/16	Wildule	0.0	20.0	28.5 28.6	20.4	6.28 6.11	0.55		82.5 80.2	05.2	4.31 5.11	4.55	4.05	6.3 6.3	0.2	0.4
			Bottom	16.2	20.5	28.6	28.6	6.08	6.10	6.10	79.8	80.0	5.38	5.25		6.5	6.4	
			Surface	1.0	23.0	29.7 29.7	29.7	7.46 7.46	7.46	7.09	103.2 103.2	103.2	2.96 2.95	2.96		8.1 8.3	8.2	
11/03/21	9:44:20	21/Fine	Middle	8.7	22.0	29.7 29.7	29.7	6.76 6.68	6.72	7.09	91.9 90.8	91.4	2.77 2.74	2.76	2.80	8.9 9.0	9.0	8.9
			Bottom	16.4	22.0	29.7	29.7	6.68	6.67	6.67	90.9	90.7	2.65	2.68		9.5	9.4	
			Surface	1.0	21.2	29.7 27.1	27.2	6.66 6.52	6.51		90.5 86.0	85.9	2.71 2.50	2.52		9.3 14.4	14.3	
						27.3 27.8		6.49 6.38		6.44	85.7 84.2		2.53 2.88	-		14.2 8.6		
13/03/21	9:16:58	21/Fine	Middle	8.6	21.0	27.8	27.8	6.35	6.37		83.8	84.0	2.91	2.90	2.83	8.7	8.7	10.2
			Bottom	16.2	20.9	27.9 28.0	28.0	6.29 6.28	6.29	6.29	83.0 82.8	82.9	3.04 3.09	3.07		7.9 7.2	7.6	
			Surface	1.0	21.8	26.9 26.9	26.9	6.61 6.60	6.61		88.0 87.8	87.9	3.24 3.27	3.26		14.7 14.7	14.7	
16/03/21	9:50:25	22/cloudy	Middle	8.8	21.8	26.9	26.9	6.57	6.57	6.59	87.4	87.4	3.55	3.56	3.59	12.7	12.7	13.5
			Datta	40.7	04.5	26.9 27.6	07.0	6.56 6.32	0.00	0.00	87.3 84.1	01.1	3.57 3.94	0.05		12.6 13.0	40.4	
			Bottom	16.7	21.5	27.6	27.6	6.32	6.32	6.32	84.1	84.1	3.96	3.95		13.2	13.1	



Date	Sampling	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen ition (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	22.7	25.4 25.5	25.4	7.07 7.05	7.06		94.9 94.7	94.8	3.44 3.43	3.44		14.7 14.3	14.5	
18/03/21	10:45:40	23/Fine	Middle	8.1	22.6	26.1 26.1	26.1	6.78 6.77	6.78	6.92	91.3 91.1	91.2	5.14 5.17	5.16	4.65	13.1 13.3	13.2	13.7
			Bottom	15.2	22.0	27.6 27.6	27.6	6.25 6.20	6.23	6.23	83.8 83.1	83.5	5.36 5.38	5.37		13.1 13.6	13.4	
			Surface	1.0	23.2	25.2 25.3	25.3	7.13	7.08		96.6 95.0	95.8	1.82 1.94	1.88		14.5 14.7	14.6	
20/03/21	11:05:17	24/Fine	Middle	8.8	22.9	26.0	26.0	6.86	6.86	6.97	92.8	92.8	2.07	2.05	3.08	7.9	7.7	11.5
			Bottom	16.7	22.6	26.0 26.7	26.7	6.86 6.49	6.47	6.47	92.7 87.7	87.4	2.02 5.24	5.32		7.5 12.1	12.2	
			Surface	1.0	22.3	26.7 29.4	29.4	6.45 6.91	6.91		87.1 94.3	94.3	5.39 3.41	3.40		12.3 7.3	7.4	
22/03/21	10:15:39	17/Fine	Middle	8.6	22.3	29.4 29.4	29.4	6.91 6.89	6.89	6.90	94.2 93.9	93.9	3.38 4.66	4.68	4.50	7.5 16.7	16.8	12.5
			Bottom	16.2	22.2	29.4 29.5	29.5	6.89 6.90	6.91	6.91	93.9 94.1	94.2	4.69 5.40	5.42		16.9 13.0	13.2	-
					23.0	29.5 29.7	29.7	6.92 7.47		0.51	94.3 103.4	102.7	5.44 2.89			13.3 5.2		
			Surface	1.0		29.7 29.7		7.39 6.81	7.43	7.11	102.0 92.6		2.79 2.50	2.84		5.2 6.0	5.2	
25/03/21	15:12:13	22/Fine	Middle	8.9	22.0	29.7 29.7	29.7	6.75 6.68	6.78		91.8 90.8	92.2	2.45 2.49	2.48	2.60	6.5 5.2	6.3	5.6
			Bottom	16.7	22.0	29.7	29.7	6.67	6.68	6.68	90.7	90.8	2.49	2.49		5.2	5.2	
			Surface	1.0	22.4	29.4 29.4	29.4	6.97 6.97	6.97	6.92	95.3 95.3	95.3	2.84 2.88	2.86		9.2 9.3	9.3	
27/03/21	9:17:25	24/Cloudy	Middle	8.8	22.3	29.4 29.4	29.4	6.87 6.86	6.87		93.7 93.5	93.6	3.05 3.11	3.08	3.72	9.0 9.4	9.2	9.1
			Bottom	16.5	22.2	29.5 29.5	29.5	6.89 6.91	6.90	6.90	93.9 94.2	94.1	5.21 5.24	5.23		8.7 9.0	8.9	
			Surface	1.0	23.3	28.1 28.1	28.1	7.02 7.02	7.02	6.99	96.8 96.7	96.8	2.44 2.47	2.46		5.4 5.7	5.6	
30/03/21	9:50:44	26/Fine	Middle	8.8	23.3	28.2 28.2	28.2	6.97 6.96	6.97	0.99	96.0 95.9	96.0	2.84 2.87	2.86	2.76	6.0 6.3	6.2	6.9
			Bottom	16.6	23.2	28.4 28.4	28.4	6.88 6.89	6.89	6.89	94.9 94.9	94.9	2.94 3.02	2.98		9.0 9.0	9.0	

東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

Mid-Flood Tide

Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		ed Oxygen ation (%)	Τι	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Duration	Weather Condition	(1	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	20.9	26.6 26.5	26.6	6.80 6.82	6.81		88.9 89.1	89.0	4.78 4.51	4.65		14.3 14.8	14.6	
						20.5		6.63		6.71	86.8		4.96			14.6		
02/03/21	8:24:26	20/Cloudy	Middle	7.7	20.7	27.5	27.5	6.58	6.61		86.2	86.5	4.92	4.94	5.06	12.1	12.4	13.4
			Bottom	14.3	20.6	27.8	27.8	6.45	6.45	6.45	84.4	84.4	5.70	5.59		13.0	13.3	
						27.8 27.4		6.45 6.58			84.4 85.8		5.48 3.93			13.5 15.9		
			Surface	1.0	20.5	27.3	27.4	6.59	6.59		86.0	85.9	3.93	3.93		15.8	15.9	
04/03/21	10:09:35	18/Cloudy	Middle	8.6	20.5	27.5	27.5	6.49	6.49	6.54	84.7	84.7	3.97	4.01	4.20	8.0	8.1	11.2
04/03/21	10.03.00	10/Oloudy	windare	0.0	20.5	27.5	21.5	6.48	0.43		84.6	04.7	4.04	4.01	4.20	8.2	0.1	11.2
			Bottom	16.2	20.5	27.6 27.6	27.6	6.40	6.40	6.40	83.6	83.6	4.66	4.67		9.4	9.5	
						27.6		6.40 6.81			83.6 89.2		4.68 3.63			9.6 5.5		
			Surface	1.0	20.7	27.4	27.4	6.67	6.74		87.3	88.3	3.61	3.62		5.7	5.6	
06/03/21	10:49:17	21/Cloudy	Middle	8.8	20.6	27.7	27.7	6.54	6.53	6.64	85.5	85.4	3.60	3.55	3.50	9.4	9.3	8.3
00/03/21	10.49.17	21/01000	windare	0.0	20.0	27.7	21.1	6.52	0.00		85.3	00.4	3.50	0.00	5.50	9.2	5.5	0.5
			Bottom	16.6	20.4	27.8 27.8	27.8	6.36 6.30	6.33	6.33	83.0 82.3	82.7	3.34 3.33	3.34		9.8 9.9	9.9	
						27.8		6.50			84.8		3.33 4.59			9.9 5.4		
			Surface	1.0	20.7	26.5	26.5	6.50	6.50	0.00	84.7	84.8	4.73	4.66		5.6	5.5	
09/03/21	14:53:48	19/Fine	Middle	8.7	20.5	28.4	28.4	6.24	6.21	6.36	81.9	81.5	4.25	4.33	4.76	8.1	8.0	7.2
00,00,21	1.100.10	10.11110	inidato	0	20.0	28.4	20.1	6.18	0.21		81.1	0.1.0	4.40			7.9	0.0	
			Bottom	16.4	20.5	28.6 28.6	28.6	6.08 6.06	6.07	6.07	79.8 79.5	79.7	5.50 5.09	5.30		8.0 7.9	8.0	
						20.0		7.34			101.2		3.18			8.2		
			Surface	1.0	22.8	29.7	29.7	7.35	7.35	7.07	101.3	101.3	2.96	3.07		8.5	8.4	
11/03/21	9:21:13	21/Fine	Middle	9.1	22.0	29.7	29.7	6.83	6.79	1.01	92.9	92.4	2.61	2.61	2.84	10.5	10.4	10.2
		-				29.7		6.75			91.8		2.61			10.2		
			Bottom	17.2	22.0	29.7 29.7	29.7	6.62 6.62	6.62	6.62	90.0 90.0	90.0	2.87 2.79	2.83		11.8 11.8	11.8	
			Curfooo	1.0	21.3	26.9	26.9	6.58	6.60		86.7	86.8	2.24	2.26		5.0	4.8	
			Surface	1.0	21.3	26.9	26.9	6.61	6.60	6.52	86.9	86.8	2.27	2.26		4.6	4.8	
13/03/21	8:54:46	21/Fine	Middle	8.6	21.1	27.5	27.6	6.46	6.44	0.02	85.2	85.0	3.02	3.04	3.16	5.8	5.6	6.3
						27.6		6.42 6.32			84.8 83.4		3.05			5.3 8.9		
			Bottom	16.2	20.9	28.0 28.0	28.0	6.32	6.31	6.31	83.4	83.2	4.21 4.19	4.20		8.9	8.7	
			0	10	01.0	26.9	00.0	6.61	0.00		88.0	07.0	2.65	0.07		11.1		
			Surface	1.0	21.8	26.9	26.9	6.59	6.60	6.48	87.7	87.9	2.68	2.67		11.6	- 11.4	
16/03/21	9:28:50	22/cloudy	Middle	8.8	21.5	27.6	27.6	6.35	6.35	0.70	84.5	84.5	3.84	3.82	3.68	6.1	6.3	8.7
						27.6		6.35			84.4		3.80			6.4		
			Bottom	16.7	21.5	27.7 27.7	27.7	6.31 6.30	6.31	6.31	83.9 83.7	83.8	4.52 4.57	4.55		8.3 8.6	8.5	
	1					21.1		0.50			03.7	1	4.57	1		0.0		

東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

Mid-Flood Tide

Date	Sampling	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Duration	Weather Condition	1)	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	22.7	25.5 25.5	25.5	7.06 7.05	7.06		94.8 94.7	94.8	3.73 3.80	3.77		17.1 17.2	17.2	
18/03/21	10:24:44	23/Fine	Middle	8.5	22.6	26.0 26.0	26.0	6.85 6.80	6.83	6.94	92.2 91.4	91.8	4.66 4.68	4.67	4.50	15.3 15.1	15.2	14.3
			Bottom	15.9	21.9	27.5 27.5	27.5	6.17 6.16	6.17	6.17	82.7 82.5	82.6	4.99	5.06		10.9	10.5	
			Surface	1.0	23.3	25.1	25.1	7.13	7.10		96.5	96.1	2.07	2.07		12.5	12.7	
20/03/21	10:49:18	24/Fine	Middle	8.6	23.3	25.1 26.2	26.3	7.06 6.96	6.95	7.02	95.6 94.7	94.9	2.06 4.35	4.37	3.92	12.8 18.0	- 18.5	14.8
			Bottom	16.2	22.5	26.5 27.1	27.1	6.93 6.38	6.35	6.35	95.0 86.1	85.8	4.39 5.33	5.34		18.9 13.5	13.4	
			Surface	1.0	22.3	27.1 29.4	29.4	6.32 6.92	6.92		85.4 94.4	94.4	5.34 3.34	3.36		13.3 10.6	10.7	
00/00/04	0.50.17	4 - 1 - 1				29.4 29.4		6.92 6.93		6.92	94.3 94.4	-	3.37 4.03		0.01	10.7 13.8		10.0
22/03/21	9:53:47	17/Fine	Middle	8.9	22.3	29.4 29.5	29.4	6.90 6.91	6.92		94.1 94.2	94.3	4.09 4.30	4.06	3.91	13.1 13.3	- 13.5	12.3
			Bottom	16.9	22.2	29.5	29.5	6.92 7.24	6.92	6.92	94.4	94.3	4.33	4.32		12.4 5.2	12.9	
			Surface	1.0	22.7	29.7 29.7	29.7	7.27	7.26	7.12	99.5 100.0	99.8	2.46	2.47		5.3	5.3	
25/03/21	14:52:24	22/Fine	Middle	8.4	22.3	29.7 29.7	29.7	7.00 6.95	6.98		95.7 94.8	95.3	2.33 2.38	2.36	2.36	6.4 6.0	6.2	5.9
			Bottom	15.9	22.0	29.7 29.7	29.7	6.70 6.69	6.70	6.70	91.1 90.9	91.0	2.25 2.28	2.27		6.2 6.0	6.1	
			Surface	1.0	22.4	29.4 29.4	29.4	6.95 6.93	6.94	0.04	95.0 94.7	94.9	2.93 3.02	2.98		4.4 4.7	4.6	
27/03/21	8:55:52	24/Cloudy	Middle	8.7	22.3	29.4 29.4	29.4	6.88 6.87	6.88	6.91	93.9 93.6	93.8	3.22 3.24	3.23	3.39	5.1 5.3	5.2	7.7
			Bottom	16.4	22.2	29.5 29.5	29.5	6.91 6.91	6.91	6.91	94.2 94.2	94.2	3.94 3.97	3.96		13.3 13.1	13.2	
			Surface	1.0	24.1	28.2 28.2	28.2	7.21 7.21	7.21		100.9 100.9	100.9	2.14 2.17	2.16		4.5	4.4	
30/03/21	9:29:47	26/Fine	Middle	9.0	23.3	28.1 28.1	28.1	7.03	7.03	7.12	96.9 96.7	96.8	2.17 2.84 2.80	2.82	2.74	4.3 6.0 6.2	6.1	6.2
			Bottom	17.1	23.2	28.3	28.3	6.92	6.92	6.92	95.3	95.3	3.22	3.23		8.1	8.1	
						28.3		6.91			95.2		3.24			8.1		



Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	/ed Oxygen	(mg/L)		d Oxygen ition (%)	Tu	ırbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Duration	Weather Condition	(1	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	20.9	26.5 26.5	26.5	7.06 6.94	7.00		92.2 90.6	91.4	5.28 5.25	5.27		12.4 12.6	12.5	
02/03/21	8:02:45	20/Cloudy	Middle	8.3	20.6	27.5 27.5	27.5	6.63 6.58	6.61	6.80	86.8 86.2	86.5	5.56 5.71	5.64	5.64	12.7 12.6	12.7	12.6
			Bottom	15.7	20.5	27.8	27.8	6.48 6.46	6.47	6.47	84.9 84.6	84.8	6.07 5.99	6.03		12.0	12.6	
			Surface	1.0	20.5	27.3	27.3	6.65	6.66		86.7	86.7	3.93	3.95		9.0	9.1	
04/03/21	9:51:23	18/Cloudy	Middle	8.6	20.5	27.3 27.4	27.4	6.66 6.54	6.55	6.60	86.7 85.4	85.4	3.96 4.09	4.08	4.35	9.1 10.8	10.7	9.8
			Bottom	16.3	20.5	27.4 27.6	27.6	6.55 6.41	6.41	6.41	85.4 83.7	83.7	4.07 5.00	5.02		10.6 9.5	9.6	
			Surface	1.0	21.0	27.6 27.6	27.6	6.41 6.92	6.88		83.7 91.2	90.7	5.03 4.77	4.79		9.7 9.3	9.4	
						27.6 27.8		6.83 6.44		6.65	90.1 84.1		4.80 4.88			9.5 10.0		
06/03/21	10:30:21	21/Cloudy	Middle	8.6	20.5	27.8 27.8	27.8	6.39 6.27	6.42		83.6 81.9	83.9	4.89 5.43	4.89	5.04	10.2 5.6	10.1	8.4
			Bottom	16.2	20.4	27.8	27.8	6.25 6.61	6.26	6.26	81.7 85.9	81.8	5.45 4.18	5.44		5.9 6.0	5.8	
			Surface	1.0	20.8	25.7	25.7	6.62	6.62	6.45	86.0	86.0	4.15	4.17		6.3	6.2	
09/03/21	14:30:42	19/Fine	Middle	8.5	20.6	28.4 28.4	28.4	6.34 6.24	6.29		83.4 82.0	82.7	4.84 4.81	4.83	4.73	7.1 7.3	7.2	7.2
			Bottom	16.1	20.5	28.5 28.5	28.5	6.11 6.08	6.10	6.10	80.2 79.8	80.0	5.17 5.20	5.19		8.0 8.2	8.1	
			Surface	1.0	22.9	29.7 29.7	29.7	7.42 7.46	7.44	7.45	102.5 103.2	102.9	2.77 2.82	2.80		10.5 10.7	10.6	
11/03/21	9:00:33	21/Fine	Middle	8.5	22.1	29.7 29.7	29.7	6.91 6.79	6.85	7.15	94.1 92.4	93.3	3.05 3.07	3.06	3.10	9.7 9.8	9.8	9.6
			Bottom	16.1	22.0	29.7 29.7	29.7	6.70 6.66	6.68	6.68	91.1 90.5	90.8	3.44 3.47	3.46		8.6 8.3	8.5	
			Surface	1.0	21.2	27.0 27.0	27.0	6.87 6.77	6.82		90.6 89.4	90.0	3.52 3.50	3.51		15.2 15.0	15.1	
13/03/21	8:31:08	21/Fine	Middle	8.8	21.1	27.6 27.7	27.6	6.51 6.45	6.48	6.65	85.9 85.2	85.6	3.77 3.79	3.78	3.94	16.3 16.5	16.4	17.4
			Bottom	16.6	20.9	28.0 28.0	28.0	6.33 6.31	6.32	6.32	83.6 83.3	83.5	4.51 4.53	4.52		20.6	- 20.6	
			Surface	1.0	21.8	26.9 26.9	26.9	6.65 6.61	6.63		88.6	88.4	4.53 3.99 4.02	4.01		20.8 16.0 16.0	16.0	
16/03/21	9:05:47	22/cloudy	Middle	8.7	21.5	27.5	27.5	6.39	6.39	6.51	88.1 85.0	84.9	4.30	4.32	4.35	21.1	21.3	18.2
		,	Bottom	16.5	21.5	27.5 27.6	27.6	6.38 6.32	6.32	6.32	84.8 84.0	84.1	4.33 4.70	4.72		21.5 17.4	17.4	
				. 5.0		27.6		6.32			84.1		4.74			17.3		



Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	irbidity (NT	U)	Susper	nded Solids	s (mg/L)
Dale	Duration	Weather Condition	()	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	22.8	25.5 25.5	25.5	7.11 7.09	7.10		95.6 95.3	95.5	3.20 3.24	3.22		11.9 11.5	11.7	
18/03/21	10:00:40	23/Fine	Middle	8.4	22.4	26.1 26.1	26.1	6.66 6.65	6.66	6.88	89.3 89.1	89.2	5.02 5.04	5.03	4.47	12.0 12.2	12.1	12.3
			Bottom	15.8	22.0	27.4 27.4	27.4	6.23 6.19	6.21	6.21	83.5 82.9	83.2	5.13 5.20	5.17		13.0 13.2	13.1	
			Surface	1.0	23.2	25.5 25.5	25.5	7.05	7.04		95.5 95.4	95.5	3.18 3.35	3.27		13.4 13.8	13.6	
20/03/21	10:30:27	24/Fine	Middle	8.4	23.0	26.3	26.3	6.83	6.83	6.93	92.7	92.7	4.71	4.79	4.70	15.3	15.2	13.3
			Bottom	15.8	22.5	26.3 27.5	27.5	6.82 6.31	6.29	6.29	92.6 85.5	85.2	4.86 6.02	6.04		15.1 11.3	11.2	
			Surface	1.0	22.3	27.5 29.3	29.4	6.27 7.17	7.11	0.20	84.9 97.8	96.9	6.05 4.03	4.08		11.0 18.1	18.2	
						29.4 29.4	-	7.04 6.94		7.02	96.0 94.6		4.13 4.35			18.3 12.9		
22/03/21	9:32:21	17/Fine	Middle	8.6	22.3	29.4 29.5	29.4	6.93 6.93	6.94		94.5 94.5	94.6	4.37 5.02	4.36	4.49	12.9 13.9	12.9	15.0
			Bottom	16.3	22.2	29.5	29.5	6.93	6.93	6.93	94.5	94.5	5.05	5.04		13.6	13.8	
			Surface	1.0	22.2	29.7 29.7	29.7	6.93 7.05	6.99	6.90	94.7 96.7	95.7	2.65 2.76	2.71		6.2 6.5	6.4	
25/03/21	14:30:14	22/Fine	Middle	8.9	22.0	29.7 29.7	29.7	6.80 6.80	6.80	0.00	92.5 92.7	92.6	2.53 2.54	2.54	2.65	8.1 8.3	8.2	7.9
			Bottom	16.8	22.0	29.7 29.7	29.7	6.68 6.67	6.68	6.68	90.8 90.7	90.8	2.75 2.67	2.71		9.0 9.2	9.1	
			Surface	1.0	22.4	29.4 29.4	29.4	6.96 6.95	6.96		95.1 95.1	95.1	3.38 3.41	3.40		8.1 8.4	8.3	
27/03/21	8:30:27	24/Cloudy	Middle	8.7	22.3	29.4 29.4	29.4	6.85 6.85	6.85	6.90	93.4 93.4	93.4	3.80 3.83	3.82	3.82	6.8 6.5	6.7	8.9
			Bottom	16.4	22.2	29.5 29.5	29.5	6.90 6.91	6.91	6.91	94.0 94.2	94.1	4.22	4.24		11.9 11.8	11.9	
			Surface	1.0	23.9	29.3 28.2 28.2	28.2	7.15	7.15		99.7	99.7	3.14	3.16		5.9	5.8	
30/03/21	9:06:34	26/Fine	Middle	8.7	23.7	28.1	28.1	7.15 7.11	7.12	7.13	99.6 98.8	98.9	3.17 3.50	3.51	3.50	5.7 9.7	9.8	8.7
			Bottom	16.5	23.2	28.2 28.4	28.4	7.12 6.90	6.89	6.89	99.0 95.0	94.9	3.52 3.81	3.83		9.9 10.7	10.6	
						28.4		6.88			94.8		3.84			10.5		



Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		ed Oxygen ation (%)	Τι	urbidity (NT	U)	Suspe	nded Solid	s (mg/L)
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	20.8	27.0 26.9	26.9	6.72 6.74	6.73		87.9 88.1	88.0	4.42 4.45	4.44		6.8 6.7	6.8	
02/03/21	14:00:19	20/Cloudy	Middle	10.2	20.7	27.5 27.5	27.5	6.63 6.58	6.61	6.67	86.8 86.1	86.5	5.41 5.22	5.32	5.26	8.4 8.4	8.4	7.3
			Bottom	19.3	20.4	28.2	28.2	6.34 6.24	6.29	6.29	82.9 81.7	82.3	6.02 6.04	6.03		6.9 6.5	6.7	
			Surface	1.0	20.5	27.4	27.4	6.57 6.57	6.57		85.7 85.8	85.8	3.85 3.85	3.85		12.1 12.3	12.2	
04/03/21	14:30:18	18/Cloudy	Middle	10.4	20.5	27.5	27.5	6.49 6.48	6.49	6.53	84.7 84.5	84.6	4.37 4.16	4.27	4.41	9.5	9.6	11.1
			Bottom	19.8	20.5	27.7	27.7	6.40 6.39	6.40	6.40	83.5 83.5	83.5	5.12	5.13		11.3 11.6	11.5	
			Surface	1.0	20.7	27.4	27.4	6.78 6.67	6.73		88.9 87.4	88.2	3.94 3.87	3.91		12.9 13.1	13.0	
06/03/21	15:30:19	21/Cloudy	Middle	10.3	20.5	27.7	27.7	6.50 6.45	6.48	6.60	84.9 84.2	84.6	3.32 3.25	3.29	4.25	9.3 9.1	9.2	9.4
			Bottom	19.5	20.4	27.9 27.9	27.9	6.21 6.14	6.18	6.18	81.1 80.2	80.7	5.67 5.44	5.56		6.0 6.2	6.1	
			Surface	1.0	20.8	25.6 25.6	25.6	6.84 6.75	6.80		88.8 87.7	88.3	3.49 3.51	3.50		7.3 7.2	7.3	
09/03/21	10:00:46	19/Fine	Middle	10.9	20.6	28.4 28.4	28.4	6.34 6.29	6.32	6.56	83.4 82.7	83.1	4.99 5.02	5.01	4.71	6.4 6.5	6.5	6.2
			Bottom	20.8	20.5	28.6 28.6	28.6	6.11 6.08	6.10	6.10	80.2 79.9	80.1	5.60 5.67	5.64		4.8 4.9	4.9	
			Surface	1.0	22.4	29.7 29.7	29.7	7.01 7.02	7.02		96.0 96.1	96.1	3.22 3.21	3.22		10.3 10.5	10.4	
11/03/21	12:30:20	21/Fine	Middle	10.8	22.0	29.7 29.7	29.7	6.70 6.70	6.70	6.86	91.1 91.1	91.1	2.59 2.59	2.59	2.80	9.6 9.4	9.5	9.8
			Bottom	20.5	22.0	29.7 29.7	29.7	6.65 6.65	6.65	6.65	90.4 90.4	90.4	2.65 2.54	2.60		9.9 9.1	9.5	
			Surface	1.0	21.3	27.5 27.5	27.5	6.47 6.47	6.47	0.00	85.8 85.7	85.8	2.33 2.35	2.34		10.6 10.2	10.4	
13/03/21	13:00:15	21/Fine	Middle	9.2	21.0	27.9 27.9	27.9	6.30 6.29	6.30	6.38	83.2 83.0	83.1	3.02 3.05	3.04	3.31	12.2 12.1	12.2	11.4
			Bottom	17.4	20.9	28.0 27.9	28.0	6.24 6.26	6.25	6.25	82.5 82.7	82.6	4.55 4.57	4.56		11.5 11.7	11.6	
			Surface	1.0	21.8	26.9 26.9	26.9	6.61 6.60	6.61	6.50	88.0 88.0	88.0	3.94 4.03	3.99		14.3 14.1	14.2	
16/03/21	14:30:54	22/cloudy	Middle	11.1	21.6	27.2 27.3	27.3	6.45 6.44	6.45	6.53	85.8 85.6	85.7	4.62 4.60	4.61	4.68	15.2 15.8	15.5	14.9
			Bottom	21.1	21.5	27.7 27.7	27.7	6.28 6.27	6.28	6.28	83.5 83.4	83.5	5.41 5.50	5.46		14.8 15.0	14.9	



Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxyger	ı (mg/L)		d Oxygen ition (%)	Tu	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Dute	Duration	Weather Condition	(r	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	22.6	25.6 25.6	25.6	7.02	7.02	0.00	94.2 94.0	94.1	4.31 4.19	4.25		9.2 9.3	9.3	
18/03/21	14:30:42	23/Fine	Middle	10.1	22.4	26.1 26.2	26.2	6.73 6.68	6.71	6.86	90.2 89.6	89.9	4.32 4.94	4.63	4.74	11.3 11.2	11.3	9.6
			Bottom	19.2	21.9	27.7 27.7	27.7	6.21 6.29	6.25	6.25	83.3 84.4	83.9	5.30 5.36	5.33		8.4 8.3	8.4	
			Surface	1.0	23.3	25.1 25.2	25.1	7.11	7.08		96.2 95.2	95.7	2.66	2.73		11.2 11.3	11.3	
20/03/21	16:00:20	24/Fine	Middle	10.6	22.7	26.4 26.4	26.4	6.74	6.73	6.90	91.0 90.6	90.8	3.99 3.81	3.90	3.56	11.1	- 11.2	10.6
			Bottom	20.2	22.2	20.4 27.8 27.8	27.8	6.12 6.04	6.08	6.08	82.5 81.5	82.0	4.03	4.05		9.2	9.4	
			Surface	1.0	22.7	29.4	29.4	7.10 7.10	7.10		97.5 97.5	97.5	4.07 4.24 4.24	4.24		10.3	10.5	
22/03/21	16:00:39	17/Fine	Middle	10.7	22.3	29.4 29.4 29.4	29.4	6.95 6.94	6.95	7.02	94.7	94.7	5.23	5.27	5.27	10.6 15.1	- 15.1	11.7
			Bottom	20.4	22.2	29.5	29.5	6.91	6.91	6.91	94.6 94.3	94.3	5.31 6.30	6.29	-	15.1 9.9	9.7	
			Surface	1.0	22.0	29.5 29.7	29.7	6.91 6.77	6.77		94.2 92.0	92.0	6.28 2.58	2.62		9.4 5.1	- 5.3	
25/03/21	11:00:22	22/Fine	Middle	11.0	22.0	29.7 29.7	29.7	6.76 6.70	6.70	6.73	92.0 91.1	91.1	2.65 2.61	2.49	2.56	5.4 5.8	- 5.9	5.8
			Bottom	20.9	22.0	29.7 29.7	29.7	6.70 6.64	6.64	6.64	91.0 90.3	90.3	2.36 2.64	2.58		5.9 6.3	6.2	-
			Surface	1.0	22.4	29.7 29.4	29.4	6.64 6.97	6.98		90.2 95.3	95.4	2.51 3.94	3.96		6.1 12.1	- 12.5	
27/03/21	12:00:21	24/Cloudy	Middle	10.5	22.3	29.4 29.4	29.4	6.98 6.91	6.91	6.94	95.5 94.2	94.2	3.97 4.52	4.51	4.37	12.9 17.0	17.2	13.8
			Bottom	19.9	22.2	29.4 29.5	29.5	6.91 6.90	6.90	6.90	94.2 94.0	94.0	4.50 4.60	4.63		17.4 11.5	11.6	
			Surface	1.0	23.4	29.5 28.1	28.1	6.90 7.05	7.04		94.0 97.3	97.2	4.66 3.94	3.93		11.7 11.7	- 11.8	
30/03/21	14:00:15	26/Fine	Middle	11.2	23.3	28.1 28.2	28.2	7.03 6.95	6.95	7.00	97.1 95.8	95.8	3.92 4.69	4.70	4.52	11.9 13.8	- 13.6	12.1
30,00,21	14.00.13	20/1 1110		21.5	23.2	28.2 28.5	28.5	6.95 6.83	6.83	6.83	95.7 94.1	94.1	4.71 4.93	4.94	7.02	13.3 11.1	11.1	
			Bottom	21.5	23.2	28.5	20.0	6.83	0.03	0.03	94.1	94.1	4.95	4.94		11.0	11.1	



Monitoring Station : TM-FM

Date	Sampling	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen ition (%)	Tu	irbidity (NT	U)	Susper	nded Solids	s (mg/L)
Dulo	Duration	Weather Condition	1)	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	20.8	26.9 26.9	26.9	6.73 6.75	6.74	6.69	88.0 88.2	88.1	5.35 5.47	5.41		4.1 4.3	4.2	
02/03/21	14:22:39	20/Cloudy	Middle	9.1	20.7	27.4 27.4	27.4	6.65 6.62	6.64	0.09	87.1 86.7	86.9	5.04 4.84	4.94	5.16	5.0 5.2	5.1	5.0
			Bottom	17.2	20.5	28.0 28.0	28.0	6.45 6.36	6.41	6.41	84.4 83.2	83.8	5.06 5.19	5.13		5.6 5.7	5.7	
			Surface	1.0	20.5	27.3 27.3	27.3	6.64 6.64	6.64	0.50	86.5 86.5	86.5	3.94 3.88	3.91		13.3 13.1	13.2	
04/03/21	14:52:44	18/Cloudy	Middle	8.5	20.5	27.5 27.5	27.5	6.52 6.52	6.52	6.58	85.1 85.1	85.1	4.05 3.92	3.99	4.05	12.4 12.3	12.4	12.0
			Bottom	16.0	20.5	27.6 27.6	27.6	6.41 6.41	6.41	6.41	83.8 83.7	83.8	4.23 4.30	4.27		10.3 10.4	10.4	
			Surface	1.0	20.8	27.4 27.4	27.4	6.80 6.67	6.74	0.05	89.2 87.5	88.4	3.69 3.75	3.72		3.5 3.7	3.6	
06/03/21	15:49:21	21/Cloudy	Middle	8.7	20.7	27.5 27.5	27.5	6.58 6.56	6.57	6.65	86.2 86.0	86.1	3.97 4.03	4.00	3.84	4.2 4.0	4.1	4.1
			Bottom	16.3	20.4	27.8 27.8	27.8	6.31 6.30	6.31	6.31	82.3 82.2	82.3	3.79 3.79	3.79		4.5 4.7	4.6	
			Surface	1.0	20.8	25.8 25.7	25.8	6.61 6.64	6.63	6.49	85.8 86.2	86.0	4.15 4.12	4.14		6.9 6.4	6.7	
09/03/21	10:26:52	19/Fine	Middle	9.0	20.7	28.4 28.4	28.4	6.35 6.31	6.33	6.48	83.6 83.0	83.3	4.53 4.42	4.48	4.69	5.8 6.0	5.9	6.7
			Bottom	17.0	20.5	28.5 28.5	28.5	6.16 6.11	6.14	6.14	80.9 80.2	80.6	5.57 5.35	5.46		7.5 7.6	7.6	
			Surface	1.0	22.3	29.7 29.7	29.7	6.96 6.97	6.97	0.07	95.2 95.3	95.3	2.32 2.32	2.32		5.1 4.9	5.0	
11/03/21	12:55:27	21/Fine	Middle	8.7	22.1	29.7 29.7	29.7	6.77 6.78	6.78	6.87	92.1 92.3	92.2	2.16 2.30	2.23	2.29	8.3 8.7	8.5	7.1
			Bottom	16.3	22.0	29.7 29.7	29.7	6.69 6.68	6.69	6.69	90.9 90.9	90.9	2.39 2.24	2.32		7.6 7.7	7.7	
			Surface	1.0	21.2	27.5 27.5	27.5	6.45 6.48	6.47	6.39	85.2 85.9	85.6	2.24 2.27	2.26		7.4 7.7	7.6	
13/03/21	13:25:39	21/Fine	Middle	8.5	21.0	27.9 27.9	27.9	6.32 6.31	6.32	0.39	83.4 83.2	83.3	2.40 2.42	2.41	2.43	8.0 8.3	8.2	8.2
			Bottom	16.1	20.9	27.9 28.0	27.9	6.27 6.27	6.27	6.27	82.8 82.8	82.8	2.60 2.63	2.62		8.7 8.9	8.8	
			Surface	1.0	21.8	26.9 26.9	26.9	6.63 6.60	6.62	0.50	88.3 87.9	88.1	4.69 4.71	4.70		11.7 11.9	11.8	
16/03/21	14:55:45	22/cloudy	Middle	8.7	21.6	27.3 27.4	27.4	6.43 6.40	6.42	6.52	85.6 85.1	85.4	4.95 4.97	4.96	4.94	12.6 12.8	12.7	11.6
			Bottom	16.4	21.5	27.6 27.6	27.6	6.32 6.32	6.32	6.32	84.1 84.0	84.1	5.11 5.18	5.15		10.3 10.5	10.4	



Monitoring	Station	:	TM-FM1
monitoring	otation	-	

Date	Sampling	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	22.7	25.5	25.5	7.04	7.04		94.5	94.5	3.43	3.43		7.4	7.5	
			Gundoe	1.0	22.1	25.5	20.0	7.03	7.04	6.92	94.4	04.0	3.43	0.40		7.6	7.0	
18/03/21	14:53:58	23/Fine	Middle	8.6	22.6	26.0	26.0	6.81	6.80		91.5	91.4	4.99	5.01	4.54	7.9	7.9	7.9
10/00/21	1.00.00	20/1 11/0	inidato	0.0	22.0	26.0	20.0	6.78	0.00		91.3	•	5.02	0.01		7.9	1.0	
			Bottom	16.3	21.9	27.6	27.6	6.20	6.20	6.20	83.1	83.1	5.16	5.17		8.1	8.2	
						27.5		6.19			83.0		5.18			8.3		
			Surface	1.0	23.3	25.1	25.1	7.07	7.06		95.8	95.7	2.47	2.47		8.0	8.0	
						25.1		7.05		6.97	95.5		2.47			7.9		
20/03/21	16:20:26	24/Fine	Middle	8.3	22.9	26.0	26.0	6.89	6.87	0.01	93.1	92.9	2.87	3.00	3.05	8.8	8.9	8.8
						26.0		6.85			92.6		3.12			8.9		
			Bottom	15.6	22.7	26.4	26.4	6.63	6.63	6.63	89.6	89.6	3.77	3.69		9.8	9.6	
			Bottom	10.0		26.4	20.1	6.63	0.00	0.00	89.6	00.0	3.60	0.00		9.4	0.0	
			Surface	1.0	22.5	29.4	29.4	7.04	7.06		96.5	96.7	4.43	4.45		7.0	7.1	
						29.3		7.07		6.99	96.8		4.47			7.2		
22/03/21	16:24:35	17/Fine	Middle	8.3	22.3	29.4	29.4	6.94	6.92	0.00	94.6	94.4	5.04	5.08	4.93	7.6	7.5	7.6
22/00/21	10.21.00		inidalo	0.0	22.0	29.4	20.1	6.90	0.02		94.1	•	5.11	0.00		7.4		
			Bottom	15.7	22.2	29.5	29.5	6.92	6.93	6.93	94.4	94.4	5.30	5.27		8.0	8.2	
			Bottom			29.5	20.0	6.93	0.00	0.00	94.4	•	5.24	0.21		8.3	0.2	
			Surface	1.0	22.0	29.7	29.7	6.74	6.74		91.6	91.6	2.55	2.55		2.9	3.1	
			Ganade	1.0	22.0	29.7	20.7	6.73	0.74	6.72	91.6	01.0	2.54	2.00		3.3	0.1	
25/03/21	11:26:14	22/Fine	Middle	8.8	22.0	29.7	29.7	6.71	6.71	0.12	91.2	91.2	2.57	2.60	2.59	3.2	3.6	4.5
20/00/21	11.20.14	22/11/10	ivildule	0.0	22.0	29.7	20.7	6.70	0.71		91.1	01.2	2.63	2.00	2.00	4.0	0.0	4.0
			Bottom	16.7	22.0	29.7	29.7	6.66	6.66	6.66	90.5	90.5	2.66	2.63		6.8	6.9	
			Dottoin	10.7	22.0	29.7	20.7	6.66	0.00	0.00	90.5	00.0	2.60	2.00		6.9	0.0	
			Surface	1.0	22.4	29.4	29.4	6.95	6.96		95.0	95.1	3.21	3.22		7.6	7.7	
			Ganade	1.0	22.4	29.4	20.4	6.96	0.00	6.92	95.1	00.1	3.23	0.22		7.7	7.7	
27/03/21	12:26:22	24/Cloudy	Middle	8.6	22.3	29.4	29.4	6.89	6.89	0.52	94.0	93.9	3.94	3.96	3.80	9.4	9.4	9.2
21/05/21	12.20.22	24/010003	wilduic	0.0	22.5	29.4	23.4	6.88	0.05		93.8	55.5	3.97	5.50	5.00	9.4	5.4	5.2
			Bottom	16.2	22.2	29.5	29.5	6.90	6.91	6.91	94.0	94.1	4.22	4.24		10.4	10.6	
			Dottom	10.2	22.2	29.5	23.5	6.91	0.51	0.31	94.2	34.1	4.25	7.27		10.8	10.0	
			Surface	1.0	24.3	28.2	28.2	7.24	7.25		101.6	101.6	2.43	2.45		12.8	12.8	
			Sunace	1.0	27.5	28.1	20.2	7.25	1.20	7.12	101.6	101.0	2.47	2.40		12.8	12.0	
30/03/21	14:27:42	26/Fine	Middle	8.7	23.3	28.1	28.1	6.99	6.99	1.12	96.3	96.3	3.02	3.03	3.30	11.4	11.6	12.3
50/05/21	14.21.42	20/11110	wildule	0.7	20.0	28.1	20.1	6.98	0.00		96.2	30.0	3.04	5.00	0.00	11.8	11.0	12.0
			Bottom	16.3	23.2	28.3	28.3	6.91	6.91	6.91	95.3	95.3	4.44	4.43		12.6	12.6	
			Dottoill	10.5	20.2	28.3	20.0	6.91	0.81	0.81	95.2	33.5	4.41	4.43		12.6	12.0	



Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen ition (%)	Τι	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Dale	Duration	Weather Condition	(1	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	20.8	26.9 26.9	26.9	6.75 6.75	6.75		88.3 88.3	88.3	5.36 5.31	5.34		3.0 3.9	3.5	
02/03/21	14:39:49	20/Cloudy	Middle	7.8	20.7	27.5 27.5	27.5	6.64	6.63	6.69	87.0	86.8	4.78	4.85	4.97	4.8	5.0	4.7
			Bottom	14.5	20.6	27.9	27.9	6.61 6.48	6.46	6.46	86.6 84.9	84.6	4.91 4.73	4.74		5.1 5.5	5.6	
						27.9 27.3		6.43 6.63			84.3 86.4		4.74 4.05			5.7 10.5		
			Surface	1.0	20.5	27.3	27.3	6.64	6.64	6.57	86.5	86.5	4.04	4.05		10.7	10.6	
04/03/21	15:11:19	18/Cloudy	Middle	8.3	20.5	27.5 27.5	27.5	6.50 6.49	6.50		84.9 84.7	84.8	4.30 4.32	4.31	4.42	10.6 10.4	10.5	11.9
			Bottom	15.7	20.5	27.6 27.6	27.6	6.42 6.41	6.42	6.42	83.8 83.7	83.8	4.88 4.92	4.90		14.7 14.5	14.6	
			Surface	1.0	20.8	27.4	27.4	6.76	6.71		88.6	88.0	4.53	4.34		4.2	4.1	
06/03/21	16:04:22	21/Cloudy	Middle	7.8	20.6	27.4 27.7	27.7	6.65 6.53	6.52	6.61	87.3 85.5	85.4	4.15 4.38	4.50	4.56	4.0 4.5	4.5	4.5
00/00/21	10.04.22	2 1/0/0000				27.7 27.8		6.51 6.29			85.3 82.2		4.61 5.13			4.5 4.7		
			Bottom	14.6	20.4	27.8	27.8	6.24	6.27	6.27	81.5	81.9	4.56	4.85		4.9	4.8	
			Surface	1.0	20.8	25.8 25.8	25.8	6.61 6.62	6.62	6.47	85.8 86.0	85.9	3.99 4.10	4.05		4.8 4.6	4.7	
09/03/21	10:48:35	19/Fine	Middle	8.5	20.6	28.5 28.5	28.5	6.37 6.28	6.33	0.47	83.9 82.7	83.3	4.59 4.81	4.70	4.72	6.3 6.0	6.2	5.9
			Bottom	16.0	20.5	28.5 28.5	28.5	6.10 6.08	6.09	6.09	80.0 79.8	79.9	5.35 5.46	5.41		6.9 6.7	6.8	
			Surface	1.0	22.4	29.7	29.7	7.02	7.02		96.0	96.0	2.58	2.58		3.4	3.5	
11/03/21	10:10:15	04/5:	Middle		22.1	29.7 29.7	29.7	7.02 6.83	6.83	6.92	96.0 93.0	93.0	2.58 2.34	2.35	2.46	3.5 3.7	3.7	3.8
11/03/21	13:16:45	21/Fine	Middle	8.8	22.1	29.7 29.7	29.7	6.82 6.70	0.03		93.0 91.2	93.0	2.35 2.44	2.35	2.40	3.7 4.0	3.7	3.0
			Bottom	16.6	22.0	29.7	29.7	6.70	6.70	6.70	91.2	91.2	2.47	2.46		4.5	4.3	
			Surface	1.0	21.4	27.4 27.5	27.4	6.71 6.65	6.68	6.54	89.0 88.1	88.6	2.43 2.45	2.44		6.8 7.0	6.9	
13/03/21	13:50:47	21/Fine	Middle	8.7	21.0	27.8 27.9	27.8	6.43 6.38	6.41	0.54	84.9 84.1	84.5	2.60 2.63	2.62	2.70	7.4 7.4	7.4	7.4
			Bottom	16.4	20.9	28.0 28.0	28.0	6.30 6.29	6.30	6.30	83.2 83.1	83.2	3.02 3.04	3.03		7.9 7.8	7.9	
			Surface	1.0	21.8	26.9	26.9	6.63	6.62		88.3	88.1	3.44	3.38		7.0	7.1	
16/03/21	15:16:22	22/cloudy	Middle	8.9	21.6	26.9 27.3	27.3	6.60 6.43	6.42	6.52	87.9 85.5	85.4	3.31 4.21	4.24	4.12	7.2 8.1	8.1	8.2
10/03/21	13.10.22	zz/cioudy	wildule			27.4 27.6		6.41 6.31			85.2 83.9		4.26 4.77		7.12	8.1 9.3		0.2
			Bottom	16.8	21.5	27.6	27.6	6.31	6.31	6.31	83.9	83.9	4.75	4.76		9.5	9.4	



Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)			Tu	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		Surface	1.0	22.7	25.5 25.5	25.5	7.06	7.07		94.9 95.0	95.0	3.94 3.97	3.96		6.0 6.2	6.1	
15:13:51	23/Fine	Middle	8.1	22.6	26.0 26.0	26.0	6.82 6.79	6.81	6.94	91.6 91.3	91.5	5.02 5.09	5.06	4.72	6.5 6.5	6.5	6.5
		Bottom	15.3	21.9	27.5	27.5	6.25	6.22	6.22	83.8	83.4	5.13	5.15		6.9	6.9	
		Surface	1.0	23.2	25.4	25.5	7.10	7.07		96.2	95.8	2.68	2.81		8.0	8.1	
16:35:18	24/Fine	Middle	8.5	23.5	26.5	26.5	6.95	6.94	7.00	95.2	95.1	3.25	3.26	3.31	9.0	9.1	9.3
		Bottom	16.1	23.3	26.7	26.7	6.78	6.81	6.81	92.6	93.0	3.88	3.85		10.5	10.6	
		Surface	1.0	22.3	29.4	29.4	6.87	6.87		93.7	93.7	4.31	4.33		7.5	7.7	
16:44:03	17/Fine	Middle	8.8	22.2	29.5	29.5	6.88	6.89	6.88	93.8	93.9	4.50	4.51	4.51	9.0	9.1	9.9
		Bottom	16.6	22.2	29.5	29.5	6.92	6.92	6.92	94.3	94.3	4.69	4.70		13.1	13.1	-
		Surface	1.0	22.5	29.5 29.7	29.7	6.92 7.13	7.14		94.3 97.7	97.9	4.70 2.58	2.59		4.0	3.8	
11:46:16	22/Fine			-	29.7 29.7		7.15 7.00		7.08	98.0 95.7		2.60 2.52		2 53	3.5 3.9		3.5
11.40.10	22/1 IIIC			-	29.7 29.7		7.04 6.77		6 75	96.3 92.1		2.49 2.57		2.00	3.6 3.2		0.0
				-	29.7 29.4		6.72 6.93		0.75	91.3 94.6	-	2.39 3.41			3.0 13.0	-	
			-		29.4 29.4		6.93 6.90		6.92	94.7 94.0		3.47 4.03			13.2 13.4		
12:48:19	24/Cloudy	Middle	8.6	22.3	29.4	29.4	6.90	6.90		94.0	94.0	4.05	4.04	3.88	13.0	13.2	11.3
		Bottom	16.1	22.2	29.5	29.5	6.91	6.91	6.91	94.2	94.2	4.18	4.15		7.5	7.5	
		Surface	1.0	23.9	28.2	28.2	7.17	7.17	7.09	100.0	99.9	2.57	2.56		10.1	10.2	
14:47:53	26/Fine	Middle	8.9	23.3	28.1 28.1	28.1	7.01 7.01	7.01		96.7 96.7	96.7	3.02 3.08	3.05	3.02	13.2 13.0	13.1	12.1
		Bottom	16.8	23.2	28.4 28.4	28.4	6.87 6.86	6.87	6.87	94.7 94.6	94.7	3.44 3.47	3.46		13.0 13.1	13.1	
	Duration 15:13:51 16:35:18 16:44:03 11:46:16 12:48:19	Sampling Duration Temp (°C) / Weather Condition 15:13:51 23/Fine 16:35:18 24/Fine 16:44:03 17/Fine 11:46:16 22/Fine 12:48:19 24/Cloudy	Sampling DurationTemp (°C) / Weather ConditionMonitoring (r15:13:5123/FineMiddle15:13:5123/FineMiddle16:35:1824/FineMiddle16:35:1824/FineMiddle16:44:0317/FineMiddle16:44:0317/FineMiddle11:46:1622/FineMiddle11:46:1622/FineMiddle12:48:1924/CloudyMiddle12:48:1924/CloudyMiddle14:47:5326/FineMiddle	Sampling DurationTemp (°C) / Weather ConditionMonitor: Depth (m)15:13:5123/FineSurface1.015:13:5123/FineMiddle8.115:13:5123/FineMiddle8.116:35:1824/FineSurface1.016:35:1824/FineMiddle8.516:4:0317/FineSurface1.016:44:0317/FineSurface1.011:46:1622/FineMiddle8.811:46:1622/FineMiddle8.912:48:1924/CloudyMiddle8.611:46:1624/CloudyMiddle8.611:46:1624/CloudySurface1.012:48:1924/CloudySurface1.014:47:5326/FineSurface1.0	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Sampling Duration Temp (°C) / Weather Condition Monitoring Depth (°C) Temp (°C) Salini Value 15:13:51 23/Fine Surface 1.0 22.7 25.5 15:13:51 23/Fine Middle 8.1 22.6 26.0 15:13:51 23/Fine Middle 8.1 22.6 26.0 15:13:51 23/Fine Middle 8.1 22.6 26.0 16:35:18 24/Fine Surface 1.0 23.2 25.5 16:35:18 24/Fine Surface 1.0 23.3 26.7 16:44:03 17/Fine Surface 1.0 22.3 29.4 16:44:03 17/Fine Surface 1.0 22.2 29.5 11:46:16 22/Fine Surface 1.0 22.5 29.5 11:46:16 22/Fine Surface 1.0 22.3 29.7 12:48:19 24/Cloudy Middle 8.9 22.3 29.4 12:48:19 24/Cloudy Middle	Sampling Duration Temp (°C) / Weather Condition Monitoring Deph (°C) Temp (°C) Salinity (ppt) 15:13:51 23/Fine Surface 1.0 22.7 25.5 25.5 25.5 15:13:51 23/Fine Middle 8.1 22.6 26.0 26.0 26.0 15:13:51 23/Fine Middle 8.1 22.6 26.0 26.0 16:35:18 24/Fine Middle 8.5 23.5 25.5 25.5 16:35:18 24/Fine Middle 8.5 23.5 26.6 26.5 16:44:03 10/1 23.3 26.7 26.7 26.7 16:44:03 17/Fine Middle 8.8 22.2 29.5 29.5 16:44:03 17/Fine Middle 8.8 22.2 29.5 29.5 11:46:16 22/Fine Middle 8.9 22.3 29.7 29.7 11:46:16 22/Fine Middle 8.9 22.3 29.7 29.7	Sampling Duration Temp (°C) / Weather Condition Monitoring Depting (°C) Temp (°C) Salinity (ppt) Dissol Dissol 15:13:51 23/Fine Surface 1.0 22.7 25.5 25.5 7.06 15:13:51 23/Fine Middle 8.1 22.6 26.0 26.0 6.82 15:13:51 23/Fine Middle 8.1 22.6 27.5 27.5 6.25 16:35:18 24/Fine Surface 1.0 23.2 26.5 26.6 6.95 16:35:18 24/Fine Middle 8.5 23.5 26.6 26.6 6.95 16:35:18 24/Fine Middle 8.5 23.5 26.6 6.83 16:4:03 17/Fine Surface 1.0 22.3 29.4 29.4 6.87 16:4:03 17/Fine Middle 8.8 22.2 29.5 29.5 6.92 11:46:16 22/Fine Middle 8.9 22.3 29.7 29.7 7.10 <t< td=""><td>Sampling Duration Temp (°C) / Weather Condition Monitoring Depth (°C) Temp (°C) Salinity (ppt) Dissolved Oxygen 15:13:51 Surface 1.0 22.7 25.5 25.5 7.06 7.07 15:13:51 23/Fine Middle 8.1 22.6 26.0 26.0 6.82 6.81 23/Fine Middle 8.1 22.6 25.5 7.06 7.07 15:13:51 23/Fine Middle 8.1 22.6 26.0 26.0 6.82 6.81 16:35:18 Surface 1.0 23.2 25.5 7.03 7.07 16:35:18 Surface 1.0 23.2 26.6 26.5 6.93 6.94 16:35:18 Bottom 16.1 23.3 26.7 26.6 26.7 6.83 6.81 16:4:03 17/Fine Surface 1.0 22.3 29.4 29.4 6.92 6.89 6.89 11:46:16 Surface 1.0 22.5 29.5</td><td>Sampling Duration Temp (°C) (red) Monitoring Depth (°C) Temp (°C) Salinity (pt) Dissolved Oxygen (mgl.) Depth-average 10 2000 2000 2000 2000 7.00 7.00 0</td><td>Sampling Duration Temp (°C) / Weather (°C) Monitoring Depth (°C) Temp (°C) Salinity (pr) Dissolved Oxygen (mg/) Satura Sat</td><td>Sampling Duration Temp (N) Salinity (pr) Dissolved Oxygen (mg/L) Saluration (%) Duration Weather (N) Nonitoring Depth (N) Yalue Average Value Value</td><td>Sampling Duration Temp (°C) / Weather Monitoring Depth (m) Temp (°C) / (°C) Salinity (pp) Dissolved Oxygen (mg). Saturation (%) Tr. Duration Condition 0 22.5 25.5 7.06 7.07 91.6 91.6 3.94 15:13:51 23/Fine Middle 8.1 22.6 25.5 7.07 7.07 91.6 91.6 91.5 3.97 15:13:51 23/Fine Middle 8.1 22.6 25.5 7.07 7.07 91.6 91.6 91.5 3.97 16:35:18 Bottom 15.0 22.6 25.5 7.00 7.07 91.6 92.6 95.3 95.8 2.94 16:35:18 Middle 8.5 23.5 26.6 6.95 6.95 6.94 95.3 95.8 2.94 16:44:03 Middle 8.8 22.2 29.5 26.6 6.83 6.87 6.87 93.4 93.7 3.92 4.31 16:44:03 Middle</td><td>Sampling Duration Under Weighter Under Under Weighter Ord Weighter Under Weighter Under Weighter Under Weighter<br <="" td=""/><td>Sampling During transmission Condition Montor (C) (m) Montor (C) (m) Term (C) (m) Montor (C) (m) Term (C) (m) Saturation (C) (m) Saturation</td><td>Sampling During Condition Monitoring Depth (m) Term (m) Samplic (m) Saturation (m) Cubicity (M) Saturation (m) Cubicity (M) Saturation (m) Sat</td><td>Sampling Duration (nonlising) Temp (nonlising) Reprint (nonlising) Reprint (nonlising) Subsect (nonlising</td></td></t<>	Sampling Duration Temp (°C) / Weather Condition Monitoring Depth (°C) Temp (°C) Salinity (ppt) Dissolved Oxygen 15:13:51 Surface 1.0 22.7 25.5 25.5 7.06 7.07 15:13:51 23/Fine Middle 8.1 22.6 26.0 26.0 6.82 6.81 23/Fine Middle 8.1 22.6 25.5 7.06 7.07 15:13:51 23/Fine Middle 8.1 22.6 26.0 26.0 6.82 6.81 16:35:18 Surface 1.0 23.2 25.5 7.03 7.07 16:35:18 Surface 1.0 23.2 26.6 26.5 6.93 6.94 16:35:18 Bottom 16.1 23.3 26.7 26.6 26.7 6.83 6.81 16:4:03 17/Fine Surface 1.0 22.3 29.4 29.4 6.92 6.89 6.89 11:46:16 Surface 1.0 22.5 29.5	Sampling Duration Temp (°C) (red) Monitoring Depth (°C) Temp (°C) Salinity (pt) Dissolved Oxygen (mgl.) Depth-average 10 2000 2000 2000 2000 7.00 7.00 0	Sampling Duration Temp (°C) / Weather (°C) Monitoring Depth (°C) Temp (°C) Salinity (pr) Dissolved Oxygen (mg/) Satura Sat	Sampling Duration Temp (N) Salinity (pr) Dissolved Oxygen (mg/L) Saluration (%) Duration Weather (N) Nonitoring Depth (N) Yalue Average Value Value	Sampling Duration Temp (°C) / Weather Monitoring Depth (m) Temp (°C) / (°C) Salinity (pp) Dissolved Oxygen (mg). Saturation (%) Tr. Duration Condition 0 22.5 25.5 7.06 7.07 91.6 91.6 3.94 15:13:51 23/Fine Middle 8.1 22.6 25.5 7.07 7.07 91.6 91.6 91.5 3.97 15:13:51 23/Fine Middle 8.1 22.6 25.5 7.07 7.07 91.6 91.6 91.5 3.97 16:35:18 Bottom 15.0 22.6 25.5 7.00 7.07 91.6 92.6 95.3 95.8 2.94 16:35:18 Middle 8.5 23.5 26.6 6.95 6.95 6.94 95.3 95.8 2.94 16:44:03 Middle 8.8 22.2 29.5 26.6 6.83 6.87 6.87 93.4 93.7 3.92 4.31 16:44:03 Middle	Sampling Duration Under Weighter Under Under Weighter Ord Weighter Under Weighter Under Weighter Under Weighter <td>Sampling During transmission Condition Montor (C) (m) Montor (C) (m) Term (C) (m) Montor (C) (m) Term (C) (m) Saturation (C) (m) Saturation</td> <td>Sampling During Condition Monitoring Depth (m) Term (m) Samplic (m) Saturation (m) Cubicity (M) Saturation (m) Cubicity (M) Saturation (m) Sat</td> <td>Sampling Duration (nonlising) Temp (nonlising) Reprint (nonlising) Reprint (nonlising) Subsect (nonlising</td>	Sampling During transmission Condition Montor (C) (m) Montor (C) (m) Term (C) (m) Montor (C) (m) Term (C) (m) Saturation	Sampling During Condition Monitoring Depth (m) Term (m) Samplic (m) Saturation (m) Cubicity (M) Saturation (m) Cubicity (M) Saturation (m) Sat	Sampling Duration (nonlising) Temp (nonlising) Reprint (nonlising) Reprint (nonlising) Subsect (nonlising

東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

Mid-Ebb Tide

Date	Sampling	Ambient Temp (°C) /	Monitorin		Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		ed Oxygen ation (%)	Tu	urbidity (NT	U)	Suspe	nded Solid	s (mg/L)
Dule	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	20.8	26.7 26.7	26.7	6.75 6.76	6.76		88.2 88.4	88.3	5.25 5.13	5.19		8.5 8.8	8.7	
02/03/21	15:01:19	20/Cloudy	Middle	7.9	20.7	27.5	27.5	6.66 6.62	6.64	6.70	87.3 86.8	87.1	4.87	4.76	5.03	10.8	10.7	9.8
			Bottom	14.8	20.6	27.8 27.7	27.7	6.49 6.47	6.48	6.48	84.9 84.7	84.8	4.03 5.16 5.11	5.14		10.3 10.1 10.3	10.2	
			Surface	1.0	20.5	27.3	27.3	6.63	6.63		86.4	86.4	3.79	3.86		11.7	11.8	
04/03/21	15:32:33	18/Cloudy	Middle	8.5	20.5	27.3 27.5	27.5	6.63 6.50	6.50	6.56	86.4 84.8	84.8	3.92 4.22	4.23	4.19	11.9 11.0	11.2	10.6
			Bottom	16.0	20.5	27.5 27.6	27.6	6.49 6.40	6.40	6.40	84.7 83.5	83.5	4.23 4.50	4.49		11.4 8.6	8.7	
			Surface	1.0	21.0	27.6 27.6	27.6	6.40 6.86	6.83		83.5 90.4	90.0	4.48 4.27	4.35		8.8 14.1	14.2	
06/03/21	16:21:28	21/Cloudy	Middle	8.6	20.6	27.6 27.7	27.0	6.80 6.56	6.52	6.68	89.6 85.8	85.3	4.43 4.05	3.92	4.43	14.3 8.0	8.0	9.8
00/03/21	10.21.20	21/010000		16.2	20.0	27.7 27.8	27.8	6.48 6.28	6.27	6.27	84.7 82.1	81.9	3.78 5.01	5.02	4.45	8.0 7.0	7.2	9.0
			Bottom			27.8 25.7		6.26 6.60		0.27	81.7 85.8		5.03 3.96			7.3 7.3		
			Surface	1.0	20.8	25.5 28.5	25.6	6.62 6.32	6.61	6.45	86.0 83.2	85.9	3.95 4.89	3.96		7.2 6.3	7.3	
09/03/21	11:11:17	19/Fine	Middle	8.7	20.7	28.5 28.5	28.5	6.26 6.11	6.29		82.4 80.2	82.8	5.09	4.99	4.70	6.0 7.0	6.2	6.7
			Bottom	16.5	20.5	28.5	28.5	6.09	6.10	6.10	79.9	80.1	5.13	5.15		6.6	6.8	
			Surface	1.0	22.3	29.7 29.7	29.7	7.04 7.04	7.04	6.96	96.3 96.3	96.3	2.65 2.63	2.64		11.6 11.8	11.7	-
11/03/21	13:39:14	21/Fine	Middle	8.1	22.1	29.7 29.7	29.7	6.89 6.85	6.87		93.9 93.4	93.7	2.69 2.46	2.58	2.50	11.5 11.3	11.4	13.0
			Bottom	15.2	22.0	29.7 29.7	29.7	6.68 6.65	6.67	6.67	90.9 90.4	90.7	2.28 2.31	2.30		15.9 15.9	15.9	
			Surface	1.0	21.4	27.5 27.4	27.4	6.54 6.54	6.54	6.44	86.7 86.7	86.7	4.55 4.57	4.56		14.1 14.4	14.3	
13/03/21	14:13:16	21/Fine	Middle	8.9	21.0	27.9 27.9	27.9	6.35 6.33	6.34	0.77	83.8 83.6	83.7	5.21 5.23	5.22	5.08	13.5 13.6	13.6	13.4
			Bottom	16.9	20.9	28.0 28.0	28.0	6.28 6.27	6.28	6.28	82.9 82.8	82.9	5.44 5.47	5.46		12.5 12.4	12.5	
			Surface	1.0	21.8	27.0 27.1	27.0	6.61 6.57	6.59	0.40	88.1 87.4	87.8	3.29 3.34	3.32		21.8 21.5	21.7	
16/03/21	15:37:47	22/cloudy	Middle	8.6	21.6	27.4 27.4	27.4	6.39 6.39	6.39	6.49	85.0 84.9	85.0	3.55 3.57	3.56	3.74	20.4 21.6	21.0	19.6
			Bottom	16.2	21.5	27.6	27.6	6.33 6.32	6.33	6.33	84.2 84.1	84.2	4.33	4.36		16.0 16.1	16.1	

東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

Mid-Ebb Tide

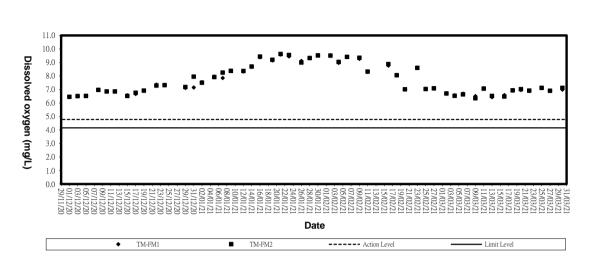
Date	Sampling	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen ition (%)	Tu	urbidity (NT	Ū)	Susper	nded Solids	s (mg/L)
Duic	Duration	Weather Condition	1) 1)	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	22.7	25.4 25.4	25.4	7.07 7.06	7.07	6.88	94.9 94.9	94.9	3.38 3.31	3.35		12.7 12.8	12.8	
18/03/21	15:36:50	23/Fine	Middle	7.8	22.4	26.1 26.0	26.0	6.72 6.65	6.69	0.88	90.0 89.1	89.6	5.11 5.10	5.11	4.84	9.3 9.1	9.2	10.4
			Bottom	14.5	22.0	27.3 27.3	27.3	6.20 6.18	6.19	6.19	83.1 82.8	83.0	6.03 6.08	6.06		9.0 9.2	9.1	
			Surface	1.0	23.4	25.3 25.3	25.3	7.11	7.08		96.6 95.5	96.1	2.76 2.68	2.72		16.0 16.1	- 16.1	
20/03/21	16:53:15	24/Fine	Middle	8.1	23.0	26.0 25.9	25.9	6.87 6.84	6.86	6.97	92.9 92.6	92.8	2.57	2.51	2.93	13.7 13.9	13.8	14.7
			Bottom	15.3	22.5	27.3 27.3	27.3	6.30 6.25	6.28	6.28	85.1 84.4	84.8	3.55 3.57	3.56		14.0 14.3	14.2	
			Surface	1.0	22.3	27.3 29.4 29.4	29.4	6.86 6.85	6.86		93.5 93.4	93.5	3.94 3.90	3.92		14.3 12.5 12.2	12.4	
22/03/21	17:08:36	17/Fine	Middle	8.8	22.2	29.4	29.4	6.87	6.88	6.87	93.7	93.8	4.55	4.56	4.51	14.0	14.1	14.1
			Bottom	16.6	22.2	29.5 29.5	29.5	6.89 6.91	6.92	6.92	93.9 94.2	94.3	4.57 5.03	5.04		14.2 16.0	15.9	
			Surface	1.0	22.3	29.5 29.7	29.7	6.92 6.99	7.02		94.3 95.4	96.0	5.05 2.62	2.62		15.8 7.6	7.7	
25/03/21	12:09:13	22/Fine	Middle	8.8	22.2	29.7 29.7	29.7	7.04 6.91	6.89	6.95	96.5 94.2	93.9	2.61 2.48	2.47	2.51	7.8 8.5	8.6	6.9
		-	Bottom	16.7	22.0	29.7 29.7	29.7	6.86 6.69	6.69	6.69	93.5 90.9	90.9	2.45 2.49	2.46	-	8.7 4.5	4.5	
			Surface	1.0	22.4	29.7 29.4	29.4	6.68 6.94	6.94	0.00	90.8 94.8	94.7	2.43 4.75	4.81		4.4 8.2	8.4	
07/00/04	40:40:55	04/01				29.4 29.4		6.93 6.89		6.91	94.6 93.9		4.86 4.91			8.5 8.7		
27/03/21	13:16:55	24/Cloudy	Middle	8.8	22.3	29.4 29.5	29.4	6.89 6.91	6.89		94.0 94.1	94.0	4.77 5.23	4.84	4.94	8.5 12.3	8.6	9.8
			Bottom	16.5	22.2	29.5 28.2	29.5	6.91 7.14	6.91	6.91	94.2 99.3	94.2	5.11 3.54	5.17		12.3 10.3	12.3	
			Surface	1.0	23.8	28.2	28.2	7.14	7.14	7.12	99.3	99.3	3.50	3.52	-	10.2	10.3	
30/03/21	15:09:32	26/Fine	Middle	8.7	23.7	28.1 28.1	28.1	7.11 7.09	7.10		98.7 98.5	98.6	4.03 4.07	4.05	4.20	9.7 9.2	9.5	9.3
			Bottom	16.5	23.2	28.4 28.3	28.4	6.91 6.90	6.91	6.91	95.2 95.0	95.1	5.68 4.38	5.03		8.1 8.3	8.2	



Appendix C3

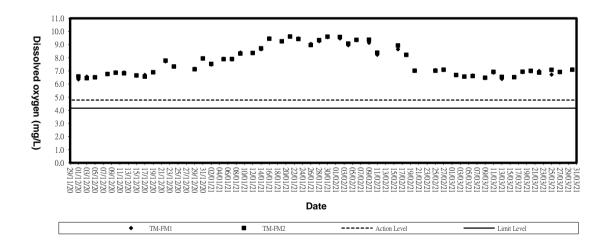
Graphical Plots of Impact Marine Water Quality Monitoring Data





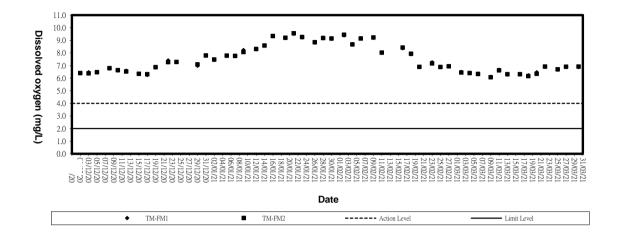
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide

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

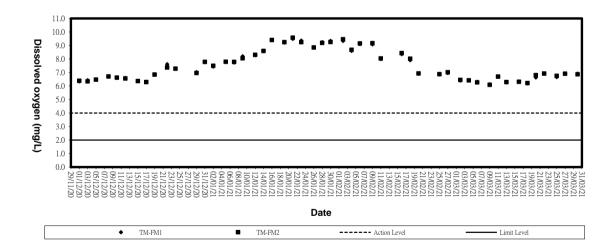




Dissolved Oxygen (Bottom) at Mid-Flood Tide

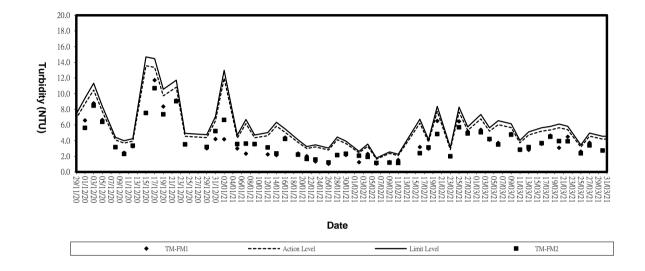


Dissolved Oxygen (Bottom) at Mid-Ebb Tide

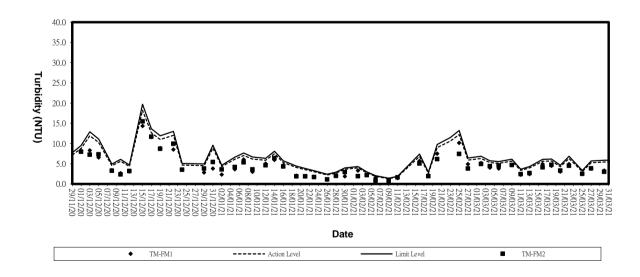




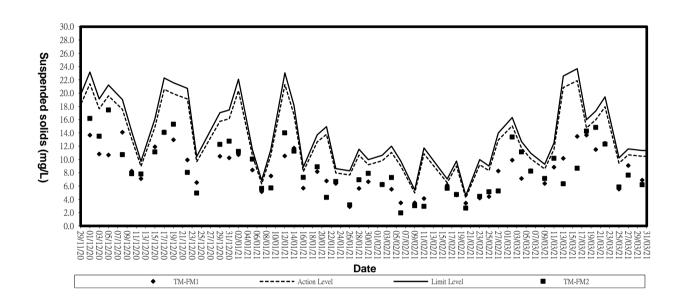
Turbidity (Depth-average) at Mid-Flood Tide



Turbidity (Depth-average) at Mid-Ebb Tide

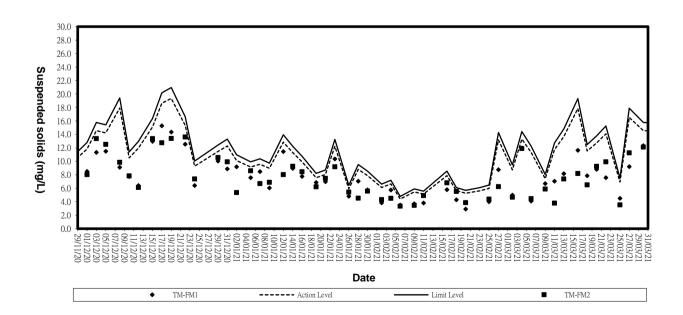






Suspended solids (Depth-average) at Mid-Flood Tide

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





Appendix D1

Calibration Certificates for Impact Noise Monitoring Equipments



Calibration Certificate

Certificate No.	101201		Page	1 of 3 Pages
Customer :	ETS-Testconsult Limited			
Address :	8/F., Block B, Veristrong Industr	ial Centre, 34-36 Au	Pui Wan St., Fo	tan, Hong Kong.
Order No. :	Q10544		Date of receipt	: 9-Feb-21
Item Tested			аналаналана (торо) - состоро, - составит	
Description	Sound Level Meter			
Manufacturer	: Rion		I.D.	: ET/EN/003/18
Model :	NL-52		Serial No.	: 00264520
Test Condit	ions			
Date of Test :	3-Mar-21		Supply Voltage) :
Ambient Temp	erature : (23 ± 3)°C		Relative Humid	lity: (50 ± 25) %
Test Specifi	cations			
Calibration chee	ck.			
Ref. Document/	Procedure: Z01, IEC 61672.			
Test Results	3			
All results were	within the IEC 61672 Type 1 spec	cification. (where ap	plicable)	
The results are	shown in the attached page(s).			
Main Test equip	oment used:			
Equipment No.	Description	<u>Cert. No.</u>		Traceable to
S017A	Multi-Function Generator	906713		SCL-HKSAR
S240	Sound Level Calibrator	003053		NIM-PRC & SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and 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. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by :	Appro	ved by :	CAL	
Elva Chong		ge economie	Kin Wong	
This Certificate is issued by:	Date:	3-Mar-21		
Hong Kong Calibration Ltd.				
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong I	Kong.			
Tel: 2425 8801 Fax: 2425 8646				



Calibration Certificate

Certificate No. 101201

Page 2 of 3 Pages

Results :

Acoustical signal test

1. Self-generated noise: 25.5dBA

2. Reference Sound Pressure Level

	UUT S	etting			
	Frequency	Time	Octave	Applied	UUT
Range (dB)	Weighting	Weighting	Filter	Value (dB)	Reading (dB)
20~130	A	F	OFF	94.0	94.0
		S	OFF		94.0
	C	F	OFF		94.0
	Z	F	OFF		94.0
	A	F	OFF	114.0	114.1
		S	OFF		114.1
	C	F	OFF		114.1
	Z	F	OFF		114.1

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

Electrical signal tests

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

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 2 dB
63 Hz	-26.4	- 26.2 dB, ± 1.5 dB
125 Hz	-16.4	- 16.1 dB, ± 1.5 dB
250 Hz	-8.8	- $8.6 \text{ dB}, \pm 1 \text{ dB}$
500 Hz	-3.4	$- 3.2 \text{ dB}, \pm 1.4 \text{ dB}$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1.1 \text{ dB}$
2 kHz	+1.3	$+$ 1.2 dB, \pm 1.6 dB
4 kHz	+1.1	$+ 1.0 \text{ dB}, \pm 1.6 \text{ dB}$
8 kHz	-1.0	- 1.1 dB, +2.1 dB ~ -3.1 dB
16 kHz	-7.9	- 6.6 dB, + 3.5 dB ~ - 17.0 dB

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



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 101201

Page 3 of 3 Pages

4. Frequency & Time weightings at 1 kHz

4.1 Frequency Weighting (Fast)

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

4.2 Time Weighting (A-weighted)

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

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

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 012hPa.
- 4. Microphone model: UC-59, S/N : 09668.
- 5. Preamplifier model : NH-25, S/N : 64646.
- 6. Firmware Version: 1.7
- 7. Power Supply Check: OK
- 8. The UUT was adjusted with the supplied sound calibrator at the reference sound pressure level before the calibration.

----- END -----



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No.	002951		Page	1 of 3	Pages
Customer :	ETS-Testconsult Limited				
Address :	8/F., Block B, Veristrong Industria	al Centre, 34-36 A	∖u Pui Wan St., Fo	tan, Hong Ko	
Order No. :	Q01189		Date of receipt		31-Mar-20
Item Tested					
Manufacturer :	Sound Level Meter Rion NL-52		I.D. Serial No.	: ET/EN/ : 002645	
Test Condition	ons				
Date of Test : Ambient Temp	6-Apr-20 erature : (23 ± 3)°C		Supply Voltage Relative Humi		5) %
Test Specific	cations				
Calibration chec Ref. Document/	k. Procedure: Z01, IEC 61672.				
Test Results	5	<u></u>			
	within the IEC 61672 Type 1 or n shown in the attached page(s).	nanufacturer's sp	ecification.		
Main Test equip		0.4 N-		Traceable	ho
Equipment No.	Description Multi-Function Generator	<u>Cert. No.</u> 906713		SCL-HKSA	
S017A S240	Sound Level Calibrator	904042		NIM-PRC &	& SCL-HKSAR
will not include allo overloading, mis-h for any loss or dan	n this Calibration Certificate only relate to wance for the equipment long term drift, andling, or the capability of any other labo nage resulting from the use of the equipm	pratory to repeat the r ent.	neasurement. Hong Ko	ong Calibration I	td. shall not be liable
The test equipmen The test results ap	t used for calibration are traceable to Inte ply to the above Unit-Under-Test only	ernational System of l	Jnits (SI), or by reference	ce to a natural c	onstant.
	A				
Calibrated by		A	pproved by :	Kin Wong	
	Elva Chong	D	ate: 6-Apr-20	Tan wong	
This Certificate is issued					

Hong Kong Calibration Lto. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Hong Kong Calibration Ltd. 香港校正 有限公司

Calibration Certificate

002951 Certificate No.

Page 3 of 3 Pages

4. Frequency & Time weightings at 1 kHz

4.1 Frequency Weighting (Fast)

4.1 1 Tequency	n eighting (- met)		DICC	100 (1(7)
UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
A	94.0	94.0 (Ref.)		± 0.4 dB
<u> </u>	94.0	94.0	0.0	
	94.0	94.0	0.0	

4.2 Time Weighting (A-weighted)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
Fast	94.0	94.0 (Ref.)		$\pm 0.3 \text{ dB}$
Slow	94.0	94.0	0.0	
Time-averaging	94.0	94.0	0.0	

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

Remarks: 1. UUT: Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 008 hPa.
- 4. Microphone model: UC-59, S/N: 03558
- 5. Preamplifier model : NH-25, S/N : 64644
- 6. Firmware Version: 1.7
- 7. Power Supply Check: OK
- 8. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END ------



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 002951

Page 2 of 3 Pages

Results :

Acoustical signal test

1. Self-generated noise: 16.8dBA (Mfr's Spec ≤ 17 dBA)

2. Reference Sound Pressure Level

	UUT S	etting			
Range (dB)	Frequency Weighting	Time Weighting	Octave Filter	Applied Value (dB)	UUT Reading (dB)
$20 \sim 130$	A	F	OFF	94.0	94.0
		S	OFF		94.0
	С	F	OFF		94.0
	Z	F	OFF		94.0
	A	F	OFF	114.0	114.0
		S	OFF		114.0
	С	F	OFF		114.0
	Z	F	OFF		114.0

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

Electrical signal tests

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

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.6	- 39.4 dB, ± 2 dB
63 Hz	-26.3	- 26.2 dB, ± 1.5 dB
125 Hz	-16.3	- 16.1 dB, ± 1.5 dB
250 Hz	-8.7	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- $3.2 \text{ dB}, \pm 1.4 \text{ dB}$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1.1 \text{ dB}$
2 kHz	+1.3	$+$ 1.2 dB, \pm 1.6 dB
4 kHz	+1.1	$+$ 1.0 dB, \pm 1.6 dB
8 kHz	-1.0	- 1.1 dB, +2.1 dB ~ -3.1 dB
16 kHz	-8.0	- $6.6 \text{ dB}, + 3.5 \text{ dB} \sim -17.0 \text{ dB}$

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



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 012476 Page 1 of 3 Pages			e 1 of 3 Pages		
Customer :	ETS-Testconsult Limited				
Address :	8/F., Block B, Veristrong Indus	trial Centre, 34-36 Au	Pui Wan St., Fo	otan, Hong Kong.	
Order No. :	Q04976		Date of receip	t: 8-Dec-20	
Item Tested					
Description	: Precision Integrating Sound Le	evel Meter			
Manufacturer	: Rion		I.D.	: ET/EN/003/12	
Model	: NL-31		Serial No.	: 00773032	
Test Condit	ions				
Date of Test: 11-Dec-20 Supply Voltage :					
Ambient Temp	perature : (23 ± 3)°C		Relative Humi	dity:(50 ± 25) %	
Test Specifi	cations				
Calibration che Ref. Document	ck. /Procedure : Z01, IEC 61672.				
Test Results	5				
All results were	within the IEC 61672 class 1 sp	ecification. (where ap	olicable)		
	shown in the attached page(s).		,		
Main Test equip	oment used:				
Equipment No.	Description	<u>Cert. No.</u>		Traceable to	
S017	Multi-Function Generator	C190926		SCL-HKSAR	
S240	Sound Level Calibrator	003053		NIM-PRC & SCL-HKSAR	

The values given in this Calibration Certificate only relate to the values measured at the time of the test and 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. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by :	Approv	ved by :	QAN
Elva Chong		<u> </u>	Kin Wong
This Certificate is issued by:	Date:	11-Dec-20	
Hong Kong Calibration Ltd.			
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Ko	ng.		
Tel: 2425 8801 Fax: 2425 8646			



Calibration Certificate

Certificate No. 012476

Page 2 of 3 Pages

Results :

1. Self-generated noise: 17.3dBA

2. Acoustical signal test

2. ILCOUDTION St	5			
U	UT Setting			
Level Range (dB)	Weight	Response	Applied Value (dB)	UUT Reading (dB)
20 - 100	L _A	Fast	94.0	94.0
20 100	7 1	Slow		94.0
	L _C	Fast	-	94.0
	Lp	Fast		94.0
30-120	L _A	Fast	94.0	94.0
50 120	-73	Slow		94.0
	L _C	Fast		94.0
	Lp	Fast		94.0
30 - 120	L _A	Fast	114.0	114.0
50 120	D _A	Slow	_	114.0
	L _C	Fast		114.0
				114.0
	Lp	Fast		114.0

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

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

Encouonay	Attenuation (dB)	IEC 61672 Type 1 Spec.
Frequency		
31.5 Hz	-39.6	- 39.4 dB, ± 2 dB
63 Hz	-26.3	- 26.2 dB, ± 1.5 dB
125 Hz	-16.2	- 16.1 dB, ± 1.5 dB
250 Hz	-8.7	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- $3.2 \text{ dB}, \pm 1.4 \text{ dB}$
1 kHz	0.0 (Ref.)	$0 \text{ dB}, \pm 1.1 \text{ dB}$
2 kHz	+1.3	+ 1.2 dB, ± 1.6 dB
4 kHz	+1.1	$+ 1.0 \text{ dB}, \pm 1.6 \text{ dB}$
8 kHz	-1.1	- 1.1 dB, + 2.1 dB ~ -3.1 dB
16 kHz	-6.6	- 6.6 dB, + 3.5 dB ~ - 17.0 dB

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



Calibration Certificate

Certificate No. 012476

Page 3 of 3 Pages

4. Frequency & Time weightings at 1 kHz

4.1 Frequency Weighting (Fast)

4.1 Proquency	Wolghung (1 abt)		1	
UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
A	94.0	94.0 (Ref.)		± 0.4 dB
С	94.0	94.0	0.0	
P	94.0	94.1	+0.1	

4.2 Time Weighting (A-weighted)

ſ	1.2 11110 (1008-18	Anniad	UUT	Difference	IEC 61672
	UUT	Applied			
	Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
	Fast	94.0	94.0 (Ref.)		$\pm 0.3 \text{ dB}$
-	Slow	94.0	94.0	0.0	
-	Time-averaging	94.0	94.0	0.0	

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

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 007hPa.
- 4. Microphone model: UC-53A, S/N : 01291.
- 5. Preamplifier model : NH-21, S/N : 25043.
- 6. Power Supply Check: OK
- 7. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No.	009927		Page	1	of	2	Pages
Customer :	ETS-Testconsult Limited						
Address :	8/F., Block B, Veristrong Indust	rial Centre, 34-36 Au	i Pui Wan St., Fo	otan,	Hong	Kon	g.
Order No. :	Q04004		Date of receipt	t :			6-Oct-20
Item Tested							
Description :	Sound Level Calibrator						
Manufacturer :	Rion		I.D.	:	ET/E	EN/0	02/01
Model :	NC-73		Serial No.	:	1019) 694	3
Test Conditi	ons						
Date of Test :	15-Oct-20		Supply Voltage	e :			
Ambient Temp	erature : (23 ± 3)°C		Relative Humic	dity	: (50 ±	£ 25)	i %
Test Specifi	cations						
Calibration chec	∧k						
	Procedure : F21, Z02.						
Hon. Doournone							
Test Results	3						
All results were	within the manufacturer's specif	ication.					
The results are	shown in the attached page(s).						
Main Test equip	oment used:						
Equipment No.		<u>Cert. No.</u>		<u>Tra</u>	ceable	<u>e to</u>	
S014	Spectrum Analyzer	005018		NIN	1-PRC) & S	SCL-HKSAR
S240	Sound Level Calibrator	003053		NIM	1-PRC) & S	SCL-HKSAR
S041	Universal Counter	001622		SCI	L-HKS	SAR	
S206	Sound Level Meter	007031		SCI	L-HKS	3AR	
The values given in	this Calibration Certificate only relate to	the values measured at	the time of the test a	nd an	y unce	rtainti	es quoted
will not include allow	wance for the equipment long term drift, andling, or the capability of any other lab	variations with environme	ental changes, vibrati	ion an	ia snoci	k aun	ng transportation,
for any loss or dam	age resulting from the use of the equipr	nent.					

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated	by	:	

Elva Chong

Approved by : Alan Chu 15-Oct-20 Date:

This Certificate is issued by: L Hong Kong Calibration Ltd. Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street,Kwai Chung, NT,Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 009927

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.
94.0 dB	94.1 dB	$\pm 1 \text{ dB}$

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

2. Frequency Accuracy

ſ	UUT Nominal Value	Measured Value	Mfr's Spec.
	1 kHz	0.984 kHz	± 2 %

Uncertainty : ± 0.1 %

- 3. Level Stability : 0.0 dBUncertainty : $\pm 0.01 \text{ dB}$
- Total Harmonic Distortion : < 0.5 % Mfr's Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remarks: 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 004 hPa

----- END -----



Appendix D2

Impact Noise Monitoring Results



Day-time Noise Monitoring`

Monitoring Location: TM-RN1 *

Date	Start Sampling	Noi	Noise Level dB (A)			Major Noise	Weather
Dale	Time (hh:mm)	Leq(30min)	L_{10}	L ₉₀	Speed (m/s)	Sources	Condition
02/03/2021	09:42	64.5	67.0	61.3	0.3	Vehicle passing by	Cloudy
04/03/2021	14:08	62.9	64.1	60.5	0.4	Vehicle passing by	Cloudy
09/03/2021	09:05	60.4	61.8	58.0	0.2	Vehicle passing by	Cloudy
11/03/2021	09:00	59.7	61.0	57.2	0.2	Vehicle passing by	Fine
16/03/2021	09:01	63.9	65.2	60.8	0.2	Vehicle passing by	Cloudy
18/03/2021	09:17	62.8	64.1	60.3	0.4	Vehicle passing by	Cloudy
23/03/2021	10:00	64.5	66.7	61.3	0.2	Vehicle passing by	Cloudy
25/03/2021	13:44	64.1	66.7	62.3	0.3	Vehicle passing by	Cloudy
30/03/2021	09:40	60.4	61.7	57.5	0.2	Vehicle passing by	Fine

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

Monitoring Location: TM-RN2 *

Dete	Start Sampling	Noise Level dB (A)			Wind	Major Noise	Weather
Date	Time (hh:mm)	L _{eq(30min)}	L_{10}	L_{90}	Speed (m/s)	Sources	Condition
02/03/2021	10:15	61.6	63.2	58.5	0.2	Vehicle passing by	Cloudy
04/03/2021	13:35	60.7	62.2	57.3	0.3	Vehicle passing by	Cloudy
09/03/2021	09:10	59.2	60.8	56.6	0.2	Vehicle passing by	Cloudy
11/03/2021	09:05	58.8	60.3	56.0	0.2	Vehicle passing by	Fine
16/03/2021	09:34	61.1	63.4	59.7	0.2	Vehicle passing by	Cloudy
18/03/2021	09:52	59.4	61.7	57.5	0.3	Vehicle passing by	Cloudy
23/03/2021	09:26	61.2	63.4	58.9	0.3	Vehicle passing by	Cloudy
25/03/2021	13:10	61.2	63.8	58.7	0.4	Vehicle passing by	Cloudy
30/03/2021	09:45	58.8	60.4	53.9	0.2	Vehicle passing by	Fine

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

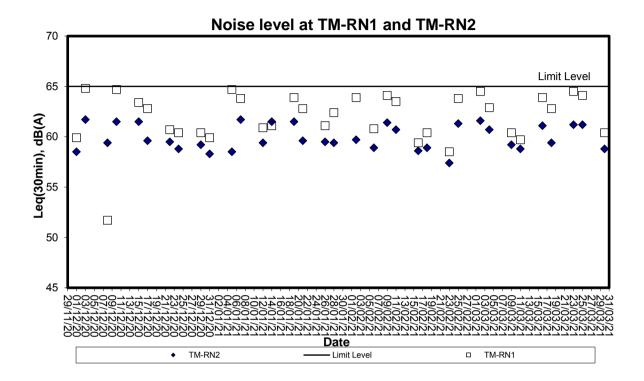


Appendix D3

Graphical Plots of Impact Noise Monitoring Data



Noise Monitoring (Day-time)





Appendix E

Weather Condition

5	Mean Pressure (hPa)	Air	Temperat	ure	Mean Dew Point	March 2 Mean Relative Humidity	Total Rainfall (mm)	Prevailing Wind Direction	Mean Wind Speed
Day		Absolute Daily Max (deg. C)	Mean (deg. C)	Absolute Daily Min (deg. C)	(deg. C)	(%)		(degrees)	(km/h)
1	***	24.2#	21.2	18.4#	18.1	83	0	10	4.2
2	***	23.8	20.2	18	14.1	70	0	350	8.7
3	***	19.7	18.2	17	13.5	74	0	150	8.2
4	***	18.6#	18	17.2#	16.5	91	3	160	5.5
5	***	21.5	19.9	18.6	18.5	91	0	150	6.3
6	***	22.4	20.6	19.7	19.4	93	2.5	230	5.8
7	***	20	19.3	18.8	17.8	91	0	20	4.1
8	***	21.3	19	17.8	15.5	80	0	150	9.1
9	***	21.8	19	16.8	15.1	79	0	160	7.1
10	***	22.8	19.7	17.5	14.9	74	0	150	8.2
11	***	24	20.5	18.5	16.4	77	0	160	9.3
12	***	27.1	22	18	17.6	77	0	150	5.4
13	***	23.4	21.1	19.6	16.3	74	0	150	10.7
14	***	23.6	20.8	19.4	16.4	76	0	150	10.5
15	***	25.3	21.6	18.6	16.7	74	0	150	8.9
16	***	27.1	22.7	19.1	18.2	77	0	160	6.1
17	***	27.8	23.4	19.8	19.6	80	0	160	7.1
18	***	24.8	22.9	21.8	20.1	84	0	160	8.6
19	***	27.5	23.4	21.4	19.8	81	0	160	8.8
20	***	28.3	23.7	20.3	19.7	79	0	160	6.1
21	***	22.6	19.6	16.1	14.4	72	0	20	10.2
22	***	19	16.6	14.7	7.7	56	0	20	11.8
23	***	20.2#	18.1	16.3#	8.7	54	0	20	5.1
24	***	24.1	20.6	17.5	13.5	64	0	20	6.2
25	***	24.2	21.8	20.3	15.6	68	0	150	11.2
26	***	24.7	21.6	19.3	16.1	71	0	150	11.1
27	***	27.4	23.7	21.5	19.8	80	0	10	6.4
28	***	28.8	24.8	21.9	21.1	81	0	160	5.8
29	***	29.3	25.6	22.8	22.1	82	0	160	8.4
30	***	29.4	26.3	24	22.7	81	0	150	12.2
31	***	29.9	26.2	24.6	22.7	82	0	150	14.5

Daily Extract of Meteorological Observations, March 2021 - Tuen Mun

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



Appendix F

Event-Action Plans

	Contractor		 Recity any unacceptatue practise appropriate appropriate 	 Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 		 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IC(E) within 3 working days of notification proposals Amend proposal if appropriate.
TY EXCEEDANCE	ER		. Notify Contractor	 Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented 		 Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE ACTION	IC(E)	ACTION LEVEL	 Check monitoring data submitted by the ET Check contractor's working method 	 Check monitoring data submitted by the ET Leader Check the Contractor's working method Check the Contractor's working method Discuss with ET and Contractor on possible remedial measures Advice the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures 		 Check monitoring data submitted by the ET Leader Check Contractor's working method Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures
Ш	FT Leader		 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, IC(E) and Contractor Transcrease Information Repeat measurement to confirm finding Increase monitoring frequency to daily 	 Identify source, investigate the causes of exceedance and propose remedial measures Inform IC(E) and Contractor Repeat measurements to confirm finding Income to confirm Repeat measurements to confirm Repeat measurements to confirm Repeat measurements to confirm Repeat measurements to confirm Repeat measurements Inform Inform Inform Inform Inform Inform Inform Repeat measurements Inform Inform<td>monitoring</td><td> 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 (CIC). EPD and ER informed of the results </td>	monitoring	 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, Contractor and EPD Repeat measurement to confirm finding Increase monitoring frequency to daily Assess the effectiveness of Contractor's remedial actions and keep (CIC). EPD and ER informed of the results
EVENT			1. Exceedance for one sample	2. Exceedance for two or more consecutive samples		1. Exceedance for one sample



	Contractor	 Take Immediate action to avoid furthe exceedances Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem atil not under control Stop the relevant activity of works as determined by the ER until the exceedance is abated.
TY EXCEEDANCE	æ	 Confirm receipt of notification of failure in writing Notify Contractor In consultation with the LC(E), are eventation with the LC(E), the remedial measures to be implemented Ensure remedial measures Ensure remedial measures Ensure remedial measures Consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated
ALL		- v.v. 4 v.
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE ACTION	IC(E)	 Discuss amongst ER, ET and Contractor on the potential remedial actions Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly Supervise the implementation of remedial measures
	ET Leader	 Identify source, investigate the causes of exceedance and propose remedial measures Notify IC(E), ER, EPD and Contractor Repeat measurement to confirm finding Increase monitoring frequency to daily Carry out analysis of contractor's working procedures to determine possible mitigation to be implemented discuss the remedial actions to be taken Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results If a finding
	1	
EVENT		2. Exceedance for two or more consecutive samples

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EVENT Action 1. Notify Level 2. Carry 3. Repo. 4. Discu 6. Increa	ET Leader Notify the IC(E) and the Contractor. 1 Carry out investigation. Report the results of investigation to the IC(E) and the Contractor. Discuss with the Contractor and Dimulate remedial measures. Increase monitoring frequency to check mitigation effectiveness Notify the IC(E), the ER, the EPD	ACTION IC(E) 1. Review the analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the ER contractor and 3. Supervise the implementation of remedial measures.	N + ci ei	ER Confirm receipt of notification of		Contractor Submit noise mitigation	
	D 0 10		નં રાંજ	ER Confirm receipt of notification of		Contractor Submit noise mitigation	
	0		ન ડાલ	Confirm receipt of notification of		Submit noise mitigation	
12 1.9 -34	ify the IC(E), the ER, the EPD	· · ····	4	failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented.	÷ ~	proposals to IC(E). Implement noise mitigation proposals.	
	fy the IC(E), the ER, the EPD	The state of the second st	_		ŀ	Training and sector sector sector.	
1. Notify		1. Discuss amongsi une EK, me EI	. <u>-</u>	Contiting receipt of nounceation of	2	take innineulate action to avoid further exceedance	
	drig ure contractor.	notantial remedial actions.	2	Notify the Contractor.	2	Submit proposals for remedial	
3. Repe	ement to confirm	2. Review the Contractor's remedial	લં	Require the Contractor to propose		actions to IC(E) within 3	
findings.	ings.	actions whenever necessary to		remedial measures for the		working days of notification.	
4. Increa	Increase monitoring frequency.	assure their effectiveness and		analysed noise problem.	ri	Implement the agreed	
	Carry out analysis of Contractor's	3. Supervise the implementation of		property implemented.	4.	Resubmit proposals if problem	-
bossi	ion to be		ະດີ	If exceedances continue, consider		still not under control.	
imple	implemented.			what activity of the work is	ຜ່	Stop the relevant activity of	
6. Infor	Ê			responsible and instruct the		works as determined by the ER	
EPD	EPD the causes & actions taken for			Contractor to stop that activity of		until the exceedances is	
-	he exceedances.			work until the exceedances is		abated.	_
7. Asse				abated.			
Contr							
keep						•	
	ER informed of the results						-
8. IT exc	It exceedance one to the						
const	construction works stops, cease						



		t 1. Check monitoring data ing submitted by ET > Confirm ET assessment if		3. Discuss with E1, EX and Contractor on the miligation		4	whenever necessary to ansure their effectiveness		ۍ ۲		. sances					•
EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE ACTION		 Notify EPD and other relevant governmental agencies in writing autor of house of house 	identification of the exceedance Discuss with IEC, ET and	Ū	3. Require contractor to propose	remedial measures for the analysed problem if related to the		4. Ensure renieura measures a property implemented	Assess the effectiveness of the militration measure							
OR WA		riting tion of	ice; lent	to IEC	ays of	5	ue to	ER and	tres to	e is oue	ion of	notion	ole time			
AND ACTION PLAN F	Contractor	Notify the ER and IEC in writing within 24 hours of identification of	exceedance Rectify unacceptable practice; Chock all blant and equinment:		and ER within 3 working days of the identification of an			 the construction works Discuss with ET, IEC and ER and 		IEC and EK it exceedance is one to the construction works within 4	working days of identification of		 Implement the agreed hingdaton measures within reasonable time 	scale		
NT A	-	<u>+-</u>	~~~~	5 4			сі — с	و. ور		9	Ę			ay		Г
EVE	ET cader	Let Identify sourc Reneat in-sit		24 hours of identification of the		working methods;	. Carry out investigation Report the results of investigation		exceedance and advise	contractor if exceedance is due to	Contractor's construction works	-	to the construction works within 4	8. Repeat measurement on next day		due to the construction works
ļ		<u>+-</u> ~			4		ഗ്യ				7			00)	_
Event		Action level	by one sampling day									-1.4 <i>84</i>		01.0		

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	IEC	 Check monitoring data submitted by ET Confirm ET assessment if exceedance is due / not due to the works Discuss with ET, ER and Contractor on the mitigation measures. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly. Assess the effectiveness of the implemented mitigation measures
EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEUANCE ACTION	ER	 Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance Discuss with IEC, ET and Contractor on the proposed miligation measures; Request Contractor to critically review the working methods; Ensure remedial measures are property implemented Assess the effectiveness of the implemented miligation measures.
r and action plan for wa Action	Contractor	in writing; he practice; of working of the bys of the ation and ER ays of the eed eed eed cale
EVEN	TT I andre	 ET Leader Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Notify Contractor in writing within 24 hours of identification of the exceedance Check monitoring data, all plant, equipment and Contractor's working methods; Carry out investigation 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 Discuss mitigation measures within 4 working of identification of an exceedance Bensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit Level.
Event		Limit level being exceeded by one sampling day

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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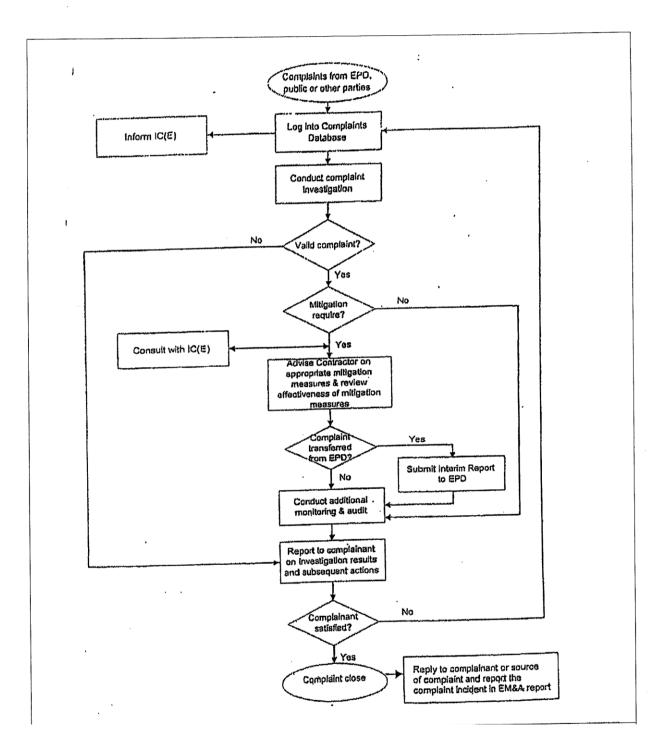
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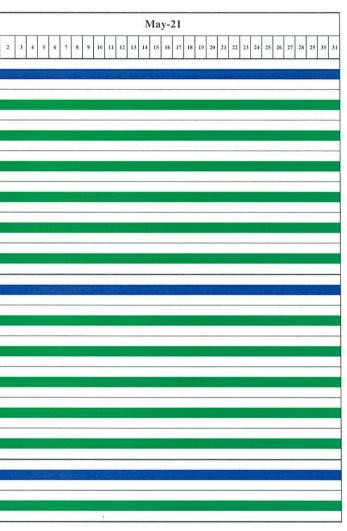
Appendix G

Construction Programme

China Harbour - Zhen Hua Joint Venture Contract No. CV/2015/07 Handling of Surplus Public Fill (2016 -2018)

Three Months Rolling Programme for the Period from 1-March-2021 to 31-May-2021 (Supplementary Agreement No.4)

				Mar-21	Apr-21	
Item	Description	From	То	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	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	1 2
1	Section 1C	1-Mar-21	31-May-21			
1.1	Operation of Fill Bank, surveillance system, tipping halls and recorder houses	1-Mar-21	31-May-21			
1.2	Operation of crushing plants	1-Mar-21	31-May-21			
1.3	Operation of the existing and expanded dewatering plants	1-Mar-21	31-May-21			
1.4	Collection and delivery of Public Fill from CWPFBP and MWPFRF to TKOFB	1-Mar-21	31-May-21			
1.5	Breaking up the incoming precast concrete units	1-Mar-21	31-May-21			
1.6	Carry out preliminary sorting on Public Fill for Three Runway System (3RS) project	1-Mar-21	31-May-21			
2	Section 2C	1-Mar-21	31-May-21			<u>85%</u>
2.1	Operation of Fill Bank, surveillance system, tipping halls and recorder houses	1-Mar-21	31-May-21			
2.2	Breaking up the incoming precast concrete units	1-Mar-21	31-May-21			
2.3	Operation of crushing plants	1-Mar-21	31-May-21			t-cart
2.4	Operation of glass cullet storage compartment at Portion B7	1-Mar-21	31-May-21			
2.5	Carry out preliminary sorting on Public Fill for Three Runway System (3RS) project	1-Mar-21	31-May-21			
3	Section 4B	1-Mar-21	31-May-21	1993年末期後期後には生活性的に使用することの1月19日であるというないですが、1月19日		물환분
3.1	Collection and delivery of Public Fill to the Designated Reclamation Sites in the Mainland	1-Mar-21	31-May-21			



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Appendix H

Weekly ET's Site Inspection Record

CEDD Contract No.: CV/2015/07

Handling of Surplus Public Fill (2016-2018) - Tuen Mun Area 38 Fill Bank



Inspection Date: $0 \frac{9}{103} \frac{1}{2021}$ Time:15:00Weather:Sunny / Fine / Cloudy / Overeast / Drizzle / Rain / Storm / HazyWind:Calm / Uppt / Breeze / StrongTemperature:19%Humidity:High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:		1	
	A	Alter	In
Name:			
	Gw CHAN	SANAMA	Liawh do
Title	lond	Emilt	E.T



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



Environmental Checklist		tages	*	Remark
	Yes	No	N/A	
Water Quality				
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	√			
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.				
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	\checkmark			
The material shall be properly covered to prevent washed away especially before rainstorm.	\checkmark			
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	√			
 Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. 	\checkmark			
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	V			
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	V			
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	√			
 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. 	√			
 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. 	V			
 Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal. 				
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	√			
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	√			
A waste collection vessel shall be deployed to remove floating debris.	√			
Landscape and Visual				
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. 	√	<u> </u>		
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	√			
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	V			
 Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level. 	√			
Lighting shall be set to minimise night-time glare.	\checkmark			

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Handling of Surplus Public Fill (2016 – 2018) - Tuen Mun Area 38 Fill Bank

				Remark
Environmental Checklist	Yes	tages No	N/A	
Waste Management				
Construction Waste Management				
 Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. 	V			
 Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. 	V			
 Mud and debris should be removed from waterworks access roads and associated drainage systems. 	\checkmark			
 Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. 	V			
 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. 	V			
 Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill. 	V			
 In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements. 	V			
 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 	V			
Chemical Waste Management				
 It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. 	V			
 After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 	√			
 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. 	V			
 Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area. 	V			-
The designated chemical waste storage area should only be used for storing chemical wastes.	<u>√</u>			
The set-up of chemical waste storage area should				and a second
 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.	√			
 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.	<u>√</u>			
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	V			
Be arranged so that incompatible materials are adequately separated.				

CEDD Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016 – 2018) - **Tuen Mun Area 38 Fill Bank**



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



Summary of the Weekly Site Inspection

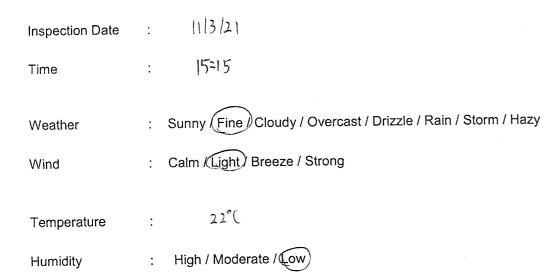
Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date

Remark

Letteration and the Advertision of the	Name	Title	Signature	Date
Checked by	Frankie Tang	ET Representative	Ant	04 March 2021
	l			

127 February 197





Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:			
		The	Mak
Name:	CEM	Edw Sully	Mak Kei Wai
Title	Alow	Ennethe	E,T

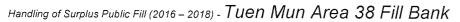
Page 1 of 7

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Handling of Surplus Public Fill (2016 – 2018) - Tuen Mun Area 38 Fill Bank

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





Environmental Checklist				Remark
Environmental Checklist	Yes	tages No	· · · · · · · · · · · · · · · · · · ·	
Mater Ouelity	Tes	NO	N/A	
Water Quality	1.50			
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	V			
 The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	\checkmark			
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	V			
 The material shall be properly covered to prevent washed away especially before rainstorm. 	V			
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	V			
 Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. 	V			
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	V			
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	√			· · · · · · · · · · · · · · · · · · ·
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	V			
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. 	V			
 The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	V			
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	V			
 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. 	1			
 Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal. 	V			
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	\checkmark			
 The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities. 	√			
 A waste collection vessel shall be deployed to remove floating debris. 	√			
Landscape and Visual				
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. 	√			
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	√			
 Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable. 	V			
 Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level. 	√			
Lighting shall be set to minimise night-time glare.	V			



Environmental Checklist		Implementation Stages*		Remark
			N/A	
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. 		1		
 Mud and debris should be removed from waterworks access roads and associated drainage systems. 	V			
 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. 	V			
 In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements. 	V			
 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 				
Chemical Waste Management				27 12 12
 It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. 	V			
 After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 	V			
 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.	1			
Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	\checkmark			
 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.	V			
 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). 	\checkmark			
 Be arranged so that incompatible materials are adequately separated. 	V			

CEDD Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016 – 2018) - **Tuen Mun Area 38 Fill Bank**



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



Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Dust emission were observed near rock crusher.	Provide the water spray properly.	210311_001	Yes	18/03/21

Remark

	Name	Title	Signature	Date
Checked by	Frankie Tang	ET Representative	to the	11 March 2021



<u>Photo</u>

and the second	
2021-08.19 18:05	
Photo 210311_001 (Near rock crusher)	

100 - 200 March 1993

CEDD Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016-2018) - Tuen Mun Area 38 Fill Bank



Inspection Date

: 18/03/2021 : 15:30

Time

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

Wind

Weather

: Calm / Light / Breeze / Strong

Temperature

Humidity

: 76°C : High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	\mathcal{V}	All	M
Name:	C.K.M	Susul	Dia In Cha
Title	ALow	Emelhin	E.T



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



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

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Handling of Surplus Public Fill (2016 – 2018) - Tuen Mun Area 38 Fill Bank

Environmental Checklist	Ś	tages	5*	Remark	
	Yes	No	N/A]	
Waste Management					
Construction Waste Management					
 Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. 	\checkmark				
 Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. 	\checkmark				
 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. 	V				
 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. 	V				
 Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill. 	V				
 In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements. 	V				
 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 	V				
Chemical Waste Management					
 It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. 	V				
 After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 	\checkmark				
 Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation. 	√				
Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	\checkmark				
 Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area. 	\checkmark				
 The designated chemical waste storage area should only be used for storing chemical wastes. 	\checkmark				
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. 	\checkmark				
Be enclosed on at least 3 sides and securely closed.	\checkmark				
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 	V				
Have adequate ventilation.	√				
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	\checkmark				
 Be arranged so that incompatible materials are adequately separated. 	√				

TO THE PROPERTY PROPERTY

CEDD Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016 – 2018) - Tuen Mun Area 38 Fill Bank



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

123



Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Follow up action to item no.1 on 11/03/21, water spray were provided.		210318_001	No	

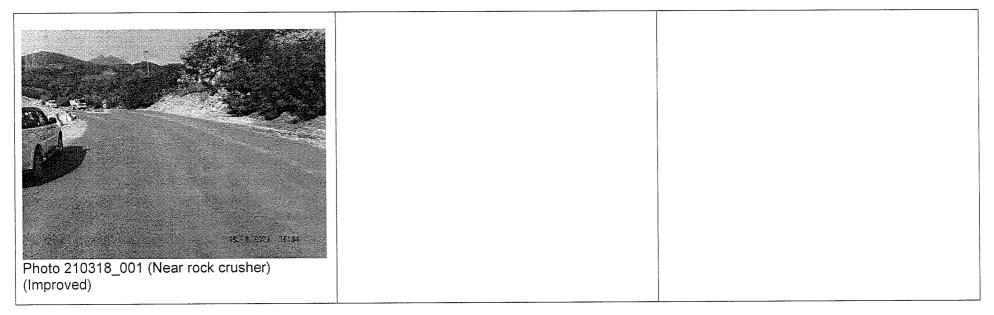
Remark

	Name	Title	Signature	Date
Checked by	Frankie Tang	ET Representative		11 March 2021 18 %

And a second second



<u>Photo</u>



CEDD Contract No.: CV/2015/07

Handling of Surplus Public Fill (2016-2018) - Tuen Mun Area 38 Fill Bank



: 25/03/2021 : 15:00 Inspection Date Time Weather

:

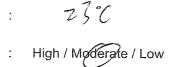
: Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy

Wind

: Calm / Light / Breeze / Strong

Temperature

Humidity



Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	Till Armo-		1
Nama			Min
Name:		CI CI MAR	
	TMYEUNIS	S.W. SUMA	Viasucho
Title	711/02	En Ma	7-1
		Enrolly	E.



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



Implementation Remark **Environmental Checklist** Stages* Yes No N/A Water Quality Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially $\sqrt{}$ Item 1 after rain storms $\sqrt{}$ The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. $\sqrt{}$. Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. $\sqrt{}$ a The material shall be properly covered to prevent washed away especially before rainstorm. $\sqrt{}$ The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation 8 $\sqrt{}$ 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 $\sqrt{}$ 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 $\sqrt{}$ 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 $\sqrt{}$ hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. $\sqrt{}$ 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 $\sqrt{}$ facilities. $\sqrt{}$ 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 $\sqrt{}$ 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 $\sqrt{}$ transport. Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be $\sqrt{}$ properly collected and treated before disposal. $\sqrt{}$ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the V vicinity of the barging facilities. $\sqrt{}$ A waste collection vessel shall be deployed to remove floating debris. Landscape and Visual $\sqrt{}$ The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. $\sqrt{}$ Surface of outer slopes of the Fill Bank shall preferably be hydroseeded. . $\sqrt{}$. Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable. Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained $\sqrt{}$ at bleast 3m above soil level. $\sqrt{}$ Lighting shall be set to minimise night-time glare.



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



Environmental Checklist		menta tages		Remark
	Yes		N/A	
 Warning panels should be displayed at the waste storage area. 	√			
 Waste storage area should be cleaned and maintained regularly. 	√			
Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.	√			
All generators, fuel and oil storage should be within bundle areas.	1			
Oil leakage from machinery, vehicle and plant should be prevented.	√			
 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. 	V			
 Training of site personnel in proper waste management and chemical handling procedures should be provided. 	√			· · · · · · · · · · · · · · · · · · ·
Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	V			
Proper storage and site practices to minimise the potential for damage or contamination of construction materials.				
The Environmental Permit should be displaced conspicuously on site.	1			
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). 	V			
 Any unused chemicals or those with remaining functional capacity should be recycled. 	√			· · · · · · · · · · · · · · · · · · ·
 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. 	V			
To encourage collection of aluminium cans by individual collectors.	1			
 Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce. 	1			
 A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods. 	√			
 A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system. 	1			



Summary of the Weekly Site Inspection:

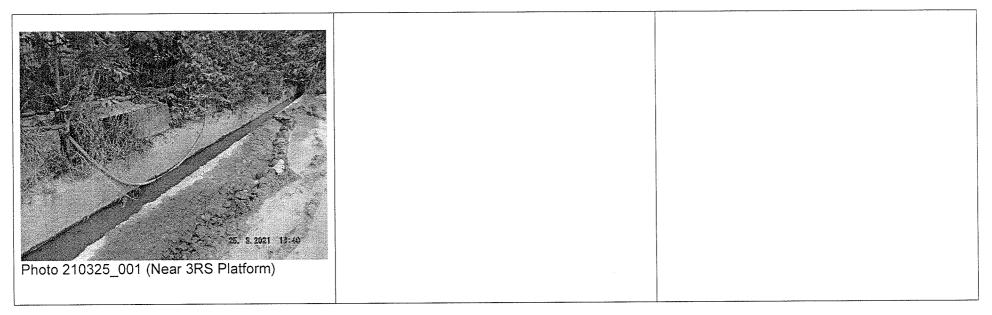
Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Muds were accumulated near 3RS platform.	To clean the accumulated mud properly.	210325_001	Yes	01/04/21

Remark

	Name	Title	Signature	Date
Checked by	Frankie Tang	ET Representative	A	25 March 2021



<u>Photo</u>





Inspection Date

Time

31/03/2021 14:20

:

:

Weather	:	Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind	:	Calm / Light / Breeze / Strong

Temperature

Humidity

: ZZ/°(: High / Møderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	12	Alec	M
Name:	0.4.16	Shigh	Ling for cho
Title	Alow/P5	Emill	ET



Remark

Implementation

Environmental Checklist	S	Stages*		
	Yes		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.	V	1		
All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	V			
 Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. 	V			
Unpaved areas should be watered regularly to avoid dust generation.	\checkmark			
The designated site main haul road shall be paved or regular watering.	√			
The haul road inside the site and public road around the site entrance should be kept clean and free from dust.	V			
Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	√		1	
Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	√			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	√			
Vehicle and equipment should be switched off while not in use.	1			
All plant and equipment should be well maintained e.g. without black smoke emission.	1			
Open burning should be prohibited.	1			
 Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311). 	V			
Noise Impact				
The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	V			
The constructions works should be scheduled to minimize noise nuisance.	V			
Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	√			
Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	V			
Air compressors and hand held breakers should have noise labels.	V			
Compressors and generators should operate with door closed.	V			
Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	V			
 Noisy equipment and mobile plant shall always be site away from NSRs. 	V		·	



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



Handling of Surplus Public Fill (2016 – 2018) - Tuen Mun Area 38 Fill Bank

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



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



Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
1	Follow up action to item no.1 on 25/03/21, accumulated muds were cleaned.		210331_001	No	

Remark

Reminder: Fill back the hole of the concrete block to prevent mosquito breeding.

	Name	Title	Signature	Date
Checked by	Frankie Tang	ET Representative		31 March 2021

100000038000000000000



<u>Photo</u>

(Improved)



Appendix I

Implementation Schedule of Mitigation Measures



Environmental Mitigation Implementation Schedule

	Location	Implementation Status				
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable	
Air Quality						
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	All areas		\checkmark			
 Water sprays shall be provided and used to dampen materials. 	All areas					
 All stockpile of aggregate or soil should be enclosed or covered and water applied in dry or windy condition. 	All areas					
 Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. 	All areas	√				
 Unpaved areas should be watered regularly to avoid dust generation. 	Site Egress					
 The designated site main haul road shall be paved or regular watering. 	All haul roads					
The public road around the site entrance should be kept clean and free from dust.	All areas					
 Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	Site Egress	\checkmark				
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	Site Egress					
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	All areas					
 Vehicle and equipment should be switched off while not in use. 	All areas					
 All plant and equipment should be well maintained e.g. without black smoke emission. 	All areas					
Open burning should be prohibited.	All areas					
 Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311). 	All areas	\checkmark				
Noise Impact						
 The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. 	All areas	\checkmark				
 Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	All areas					
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	All areas					
 Air compressors and hand held breakers should have noise labels. 	All areas					
 Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	All areas	\checkmark				
 Noisy equipment and mobile plant shall always be site away from NSRs. 	All areas					



	Location	Implementation Status					
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable		
Water Quality							
 The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained. 	All areas	\checkmark					
 Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels. 	All areas	\checkmark					
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	All areas	\checkmark					
The material shall be properly covered to prevent washed away especially before rainstorm.	All areas	\checkmark					
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	All areas	\checkmark					
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	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	\checkmark					
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	Wheel Washing facility	\checkmark					
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	Site Egress	\checkmark					
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. 	Site Office	\checkmark					
 The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	All areas	\checkmark					
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	All areas	\checkmark					
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	Along the seafront	\checkmark					
 A waste collection vessel shall be deployed to remove floating debris. 	Along the seafront	\checkmark					
Landscape and Visual							
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	All areas						
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	Completed slopes	\checkmark					
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	Completed slopes	\checkmark					
• Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at least 3m above soil level.	Site boundary	\checkmark					
Lighting shall be set to minimise night-time glare.	All areas	\checkmark					
Waste Management							
Construction Waste Management							
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	All areas						



		Location	Implementation Status					
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable		
•	Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	All areas	\checkmark					
٠	Mud and debris should be removed from waterworks access roads and associated drainage systems.	All areas						
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	All areas	V					
•	Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	All areas						
•	In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	All areas	\checkmark					
•	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	All areas						
С	hemical Waste Management							
•	It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Waste Storage Area	\checkmark					
•	After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Waste Storage Area	\checkmark					
•	Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	Waste Storage Area						
•	Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	Waste Storage Area	\checkmark					
•	Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	Waste Storage Area	\checkmark					
•	The designated chemical waste storage area should only be used for storing chemical wastes.	Waste Storage Area	\checkmark					
Tł	ne set-up of chemical waste storage area should							
•	Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	Waste Storage Area	\checkmark					
•	Be enclosed on at least 3 sides and securely closed.	Waste Storage Area	\checkmark					
•	Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	Waste Storage Area	\checkmark					
•	Have adequate ventilation.	Waste Storage Area	\checkmark					
•	Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	Waste Storage Area	\checkmark					
•	Be arranged so that incompatible materials are adequately separated.	Waste Storage Area	\checkmark					
•	Warning panels should be displayed at the waste storage area.	Waste Storage Area	\checkmark					



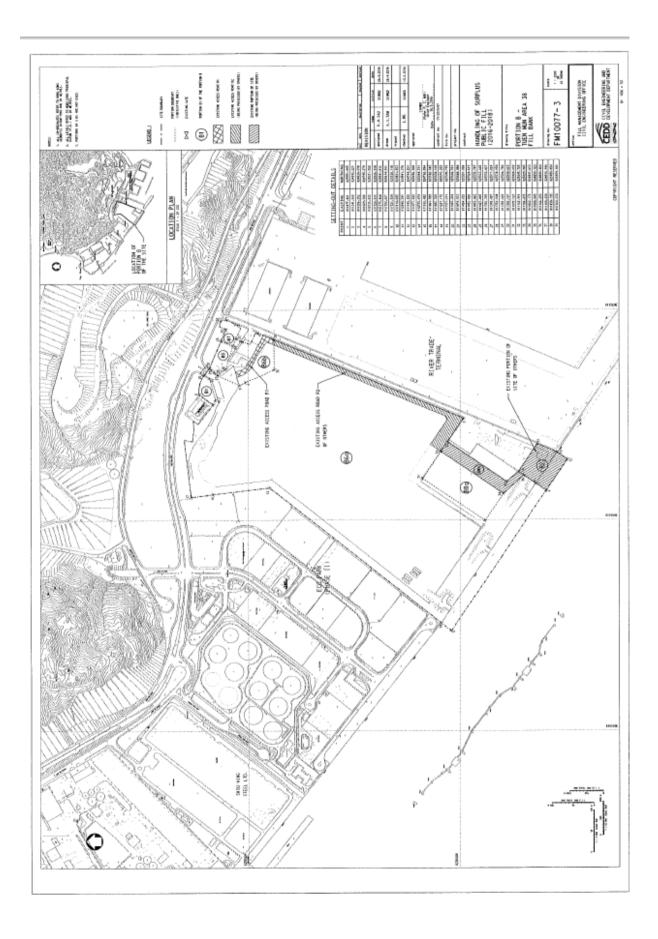
		Location	Implementation Status					
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable		
•	Waste storage area should be cleaned and maintained regularly.	Waste Storage Area						
•	Chemical waste should be transported by a registered chemical waste collector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



Appendix J

Site General Layout plan







Appendix K

Monthly Summary Waste Flow Table

		Actual Quantitie	es of Inert C&I	D Materials Gene	erated Monthly	Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan	0	0	0	0	0	0	0	0	0	0	78.83
Feb	0	0	0	0	0	0	0	0	0	0	45.73
Mar	0	0	0	0	0	0	0	0	0	0	96.48
Apr											
May											
Jun											
Sub-total											
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total											

Monthly Summary Waste Flow Table for 2021

Notes: (1) The performance targets are given in PS Clause 1.110(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.



Appendix L

Monitoring Schedule for the Coming Month



Contract No. CV/2015/07 Handling of Surplus Public Fill (2016-2018) Tuen Mun 38

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28-Mar	29-Mar	30-Mar 24-hr TSP 24-hr RSP NM WQM Mid-flood (09:00-10:30) Mid-ebb (14:00-15:30)		1-Apr 1-hr TSP x 3, NM 24-hr TSP 24-hr RSP Weekly SI (pm) WQM Mid-flood (09:30-11:00) Mid-ebb (14:30-16:00)	2-Apr	3-Apr
4-Apr		6-Apr	24-hr RSP	8-Apr 1-hr TSP x 2 NM Weekly SI (pm) WQM Mid-ebb (10:30-12:00) Mid-flood (15:30-17:00)		10-Apr 1-hr TSP x 1 NM WQM Mid-ebb (10:00-11:30) Mid-flood (16:00-17:30)
11-Apr	12-Apr	13-Apr 24-hr TSP 24-hr RSP NM WQM Mid-flood (08:30-10:00) Mid-ebb (13:30-15:00)		15-Apr 1-hr TSP x 2 NM Weekly SI (pm) WQM Mid-flood (09:00-10:30) Mid-ebb (14:30-16:00)		17-Apr 1-hr TSP x 1 Mid-flood (09:30-11:00) Mid-ebb (15:00-16:30)
18-Apr 25-Apr	24-hr TSP 24-hr RSP NM WQM Mid-flood (09:30-11:00) Mid-ebb (16:00-17:30)	20-Apr	21-Apr 1-hr TSP x 2 NM WQM Mid-flood (09:00-10:30) Mid-ebb (16:00-17:30) 28-Apr	Weekly SI (pm)		24-Apr 1-hr TSP x 1 WQM Mid-ebb (10:00-11:30) Mid-flood (15:00-16:30) 1-May
24-hr TSP 24-hr RSP		1-hr TSP x 2 NM WQM Mid-ebb (10:30-12:00) Mid-flood (16:30-18:00)		1-hr TSP x 1 NM Weekly SI (pm) WQM Mid-flood (09:00-10:30) Mid-ebb (13:30-15:00) 06/04/2021, water guality more		24-hr TSP 24-hr RSP

Remark: Due to the Public Fill Facilities will close on general holidays 28/03/2021 and Easter from 02/04/2021 to 06/04/2021, water quality monitoring on 03/04/21 and 06/04/21 will be cancelled. will be cancelled.

April 2021



Appendix M

Reporting Month Monitoring Schedule



Contract No. CV/2015/07 Handling of Surplus Public Fill (2016-2018) Tuen Mun 38

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

March 2021

Sunday	Monday	Tuesday		Wednesday		Thursday		Friday		Saturday	
28-Feb	1-Mar	2	2-Mar		3-Mar		4-Mar		5-Mar		6-Mar
24-hr TSP 24-hr RSP		1-hr TSP x 2 NM				1-hr TSP x 1 Weekly SI (pm) NM				24-hr TSP 24-hr RSP	
		WQM				WQM				WQM	
		Mid-flood				Mid-flood				Mid-flood	
		(08:00-09:30)				(09:30-11:00)				(10:30-12:00)	
		Mid-ebb (14:00-15:30)				Mid-ebb (14:30-16:00)				Mid-ebb (15:30-17:00)	
7-Mar	8-Mar		9-Mar	10	0-Mar	(14.30-10.00)	11-Mar		12-Mar	(13.30-17.00)	13-Mar
		1-hr TSP x 2 NM				1-hr TSP x 1 NM		24-hr TSP 24-hr RSP		1-hr TSP x 2	
						Weekly SI (pm)					
		WQM				WQM				WQM	
		Mid-ebb				Mid-flood				Mid-flood	
		(10:00-11:30) Mid-flood				(09:00-10:30) Mid-ebb				(08:30-10:00) Mid-ebb	
		(14:30-16:00)				(12:30-14:00)				(13:00-14:30)	
14-Mar	15-Mar		6-Mar	1	7-Mar		18-Mar		19-Mar	(10.00 11.00)	20-Mar
		1-hr TSP x 1				24-hr TSP 24-hr RSP NM				1-hr TSP x 2	
		NM				Weekly SI (pm)					
		WQM				WQM				WQM	
		Mid-flood				Mid-flood				Mid-flood	
		(09:00-10:30)				(10:00-11:30)				(10:30-12:00)	
		Mid-ebb (14:30-16:00)				Mid-ebb (14:30-16:00)				Mid-ebb (16:00-17:30)	
21-Mar	22-Mar		B-Mar	24	4-Mar	(14.30-10.00)	25-Mar		26-Mar	(10.00-17.30)	27-Mar
		1-hr TSP x 1 NM		24-hr TSP 24-hr RSP		1-hr TSP x 2 NM				1-hr TSP x 1	
	wow					Weekly SI (pm)					
	WQM Mid-flood					WQM Mid-ebb				WQM Mid-flood	
	(09:30-11:00)					(11:00-12:30)				(08:30-10:00)	
	Mid-ebb					Mid-flood				Mid-ebb	
	(16:00-17:30)					(14:30-16:00)				(12:00-13:30)	
28-Mar	29-Mar	30)-Mar	31	1-Mar		1-Apr		2-Apr		3-Apr
		24-hr TSP 24-hr RSP		Weekly SI (pm)		1-hr TSP x 2				1-hr TSP x 1	
		NM	S	SSEMC		NM					
		WQM				WQM				WQM	
		Mid-flood (09:00-10:30)				Mid-flood (09:30-11:00)				Mid-flood (10:30-12:00)	
		(09.00-10.30) Mid-ebb				(09.30-11.00) Mid-ebb				(10.30-12.00) Mid-ebb	
		(14:00-15:30)				(14:30-16:00)				(15:30-17:00)	



Appendix N

QA/QC Results of Laboratory Analysis



QA/QC Results of Laboratory Analysis of Total Suspended Solids

	QC Sample Analysis	Sample	Duplicate	Samp	le Spike
Sampling Date	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
· •	100.8	FC1-S	6.06	FM2-M	105.7
	99.4	FM2-B	0.00	EM1-S	87.8
2021/3/2	100.0	EM1-M	4.38	EC2-B	98.3
	102.4	FC1-S	3.23	FM2-M	100.6
	101.6	FM2-B	1.20	EM1-S	99.0
2021/3/4	100.5	EM1-M	0.80	EC2-B	107.6
	100.9	FC1-S	4.40	FM2-M	104.7
	102.4	FM2-B	3.45	EM1-S	86.8
2021/3/6	96.2	EM1-M	1.94	EC2-B	89.8
	98.0	FC1-S	3.64	FM2-M	105.8
	101.9	FM2-B	5.78	EM1-S	97.5
2021/3/9	101.9	EM1-M	3.39	EC2-B	88.4
	100.2	FC1-S	4.44	FM2-M	92.2
	98.5	FM2-B	1.08	EM1-S	84.6
2021/3/11	101.9	EM1-M	3.55	EC2-B	99.1
	103.6	FC1-S	2.03	FM2-M	86.3
	98.2	FM2-B	7.62	EM1-S	95.6
2021/3/13	102.5	EM1-M	2.60	EC2-B	87.4
	102.9	FC1-S	4.14	FM2-M	93.6
	97.1	FM2-B	0.74	EM1-S	101.6
2021/3/16	98.9	EM1-M	0.80	EC2-B	96.8
	104.0	FC1-S	3.57	FM2-M	97.2
	103.9	FM2-B	2.28	EM1-S	95.1
2021/3/18	102.5	EM1-M	3.25	EC2-B	85.1
	103.7	FC1-S	1.06	FM2-M	95.5
	100.4	FM2-B	1.69	EM1-S	94.8
2021/3/20	101.1	EM1-M	2.30	EC2-B	95.2
	101.6	FC1-S	4.74	FM2-M	85.0
	102.7	FM2-B	2.23	EM1-S	99.8
2021/3/22	102.1	EM1-M	4.20	EC2-B	103.3
	101.3	FC1-S	2.67	FM2-M	98.8
	101.5	FM2-B	3.64	EM1-S	106.4
2021/3/25	104.4	EM1-M	0.00	EC2-B	88.5
	100.3	FC1-S	1.44	FM2-M	91.8
	101.7	FM2-B	3.77	EM1-S	98.9
2021/3/27	101.9	EM1-M	1.06	EC2-B	89.2
	103.8	FC1-S	1.96	FM2-M	81.8
	100.1	FM2-B	1.06	EM1-S	87.6
2021/3/30	99.5	EM1-M	3.45	EC2-B	89.4

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

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



Appendix O

Complaint Log



Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
001	Lung Mun Road near Tuen Mun Area 38 Fill Bank	24 May 2017	One complaint received on 24 May 2017, which was forwarded to ET on 03 June 2017, from public against the rocks and debris deposited on the road surface along Lung Mun Road near Tuen Mun Area 38 Fill Bank. The complainant complained that waste generated caused an environmental nuisance.	 Refer to the ET site investigation on 06 June 2017, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road; Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day; Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission. 	Closed

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002	Lung Mun Road near Tuen Mun Area 38 Fill Bank	16 April 2018	One complaint received on 16 April 2018 from public and forwarded to ET by email at 10:51 on 25 May 2018. The complaint detail was"來往屯門第 38 區填料庫的龍門路沿 路有很多泥頭車出入,泥頭會從車上掉至路面上,要求部 門跟進及回覆。"	 Refer to the ET site investigation on 26 May 2018, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. Details of Action(s) Taken by the Contactor: Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day; Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road; Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; Site vehicles for transporting materials are covered properly by using clean tarpaulin sheets; Regular cleaning at the site haul road is provided. 	Closed
003	Lung Mun Road near Tuen Mun Area 38 Fill Bank	26 June 2018	One complaint received on 26 June 2018 from public and forwarded to ET by email at 13:58 on 03 July 2018. The complaint detail was" 當天水車於 6 時出動洗街,導致交通 阻塞."	 Refer to the ET site investigation on 07 July 2018, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. Details of Action(s) Taken by the Contactor: Improve the road washing plan to avoid washing in traffic peak peroid Revised the road washing schedule as soon as possible once there is traffic jam 	Closed



Figures



