





Contract No. 13/WSD/17

Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Monthly EM&A Report No.56 (Period from 1 October to 31 October 2024)

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Position	Environmental Team Leader		
Signature	tot.		
Date:	11 November 2024		



Our ref.: LES/J2024-01/CS/L048 Date : 11 November 2024

By Post and Email

Water Supplies Department New Works Branch Consultants Management Division 6/F, Sha Tin Government Offices, 1 Sheung Wo Che Road, Sha Tin, New Territories

Attn: Mr. W F Cheung/ S K Wong

Dear Sirs,

Independent Environmental Checker (IEC) for Construction and Operation of the First Stage Desalination Plant at Tseung Kwan O (Quotation Ref. No. TKO1/IEC/003)

Verification of Monthly Environmental Monitoring and Audit (EM&A) Report for

October 2024

Referring to the Monthly Environmental Monitoring and Audit Report (October 2024) Rev.2.0 as submitted by the Environmental Team on 11 November 2024, we hereby verify the captioned report for further submission to the Director's Representative of the Project according to Clause 3.5 of the Environmental Permit EP-503/2015/B and Further Environmental Permit FEP-01/503/2015/B.

Should you have any queries, please contact the undersigned at 61496683, or email at serenashek@lamenviro.com.

Yours sincerely, For and On Behalf Of Lam Environmental Services Limited

Serena Shek Independent Environmental Checker

Binnies (Att Aurecon (Att

(Attn.: Derek Lai) (Attn.: Toby Wan) By E-mail By E-mail





REVISION HISTORY

Rev.	Description of Modification	DATE
1.	Awaiting for comments	07/11/2024
2.	Revised according to the comments	11/11/2024





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EXECUTIVE SUMMARY

INTRODUCTION

- A1. The Project, Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (EP No. FEP 01/503/2015/B) for the construction and operation of the Contract.
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Contract, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Contract.
- A3. This is the 56th Monthly EM&A Report, prepared by ASCL, for the Contract summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O Area 137 (TKO 137) during the reporting period from 1 October to 31 October 2024.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction noise level at selected NSRs and Contractor's environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, Landscape and Visual and Ecology.

SUMMARY OF MAIN WORKS UNDERTAKEN & KEY MITIGATION MEASURES IMPLEMENTED

A5. Key activities carried out in this reporting period for the Contract included the followings:

All Area

- Security Fence footing construction work
- Footpath Construction
- Landscape Construction
- Irrigation System Construction
- Water Pressure Test for FS and PL system
- Landscape planting work
- Traffic signage work
- E&M Works and Mechanical Installation

PWST

- Water Test in Tank A
- Waterproofing work at Roof Slab on Tank A
- Installation of building services, electrical switchboards and cables
- Installation of mechanical equipment, steel pipe, Pressure Test





Administration Building
External wall aluminum features installation
Finishing works for dog house
• Minor Installation of building services, electrical switchboards & cables, Pressure
Test, T&C
Chemical building
Defect rectification
Repairing the defects inside the dangerous store
Combined Shaft & Pump House
Internal finishing, defect rectification
Construction of hose reel cabinet
• T&C
ActiDAFF
Installation of access opening covers for filtered water tank
• Carrying out finishing works for staircase no. 3.
Minor Installation of mechanical equipment, piping system
• Minor Installation of building services, electrical switchboards and cables,
Installation of FRP Enclosure System
Product Water Storage Tank Building
• Minor Installation of building services, cable laying and termination, PV Panel
Installation, Testing & Commissioning
OSCG Building
Protective Coating for DG Rooms
Installation of Railing on Brine Maker Tank
• Minor Installation of building services, cables and pipe works, T&C
• Tank surface cleaning, T&C
Reverse Osmosis Building
 Installation of Signage, AP doors, sanitary fitting, sanitary ware in toilet, tiling
work and water meter cabinets
 Minor Installation of building services, minor cable laying and termination,
Testing & Commissioning, PV Panel Installation
Post Treatment Building
Installation of Cat Ladders in Water Tanks
Placing Soil Mix at Roof Curb Construction for Rescue Opening at Water Tapka
Curb Construction for Rescue Opening at Water Tanks
 Installation of building services, piping system, mechanical equipment and piping
system, Pressure Test
Inspection gallery
Construction of roof tiling works
Installation of steel balustrade at roof
 Installation of movement joints





- Construction of block works
- Minor Installation of building service, T&C

RO and Electrical Building

- Installation of Glass House
- Minor Installation of building services, electrical switchboards and cables
- Minor Installation of mechanical pipework and raised Floor,
- PV Panel Installation, T&C

Chiller plant & Main Electrical Building

• Minor Installation of building services, electrical switchboards and cables, Pressure Test, T&C

Others

- Slope works
- Construction works of extended access road
- A6. The major environmental impacts brought by the above construction works include:
 - Construction dust and noise generation from construction works and excavation works and slope works;
 - Waste generation from the construction activities
- A7. The key environmental mitigation measures implemented for the Contract in this reporting period associated with the above construction works include:
 - Dust suppression by regular wetting and water spraying for construction works;
 - Reduction of noise from equipment and machinery on-site and regular inspection to machinery and plants/vehicles on-site to ensure proper functioning;
 - Deployment of silt curtain at the inshore water outflow;
 - Sorting and storage of general refuse and construction waste; and
 - Deployment protective fencing for trees

SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

- A8. No noise monitoring was conducted during the reporting period since there are no Contract -related construction activities undertaken within a radius of 300m from the monitoring locations. No exceedance of the action Level was recorded during the reporting period.
- A9. The construction phase marine water quality programme was ceased from 1 September 2023 due to the completion of marine-related construction works.
- A10. Water quality monitoring of the discharge of dechlorinated effluent in disinfection procedure is completed in December 2023. The hourly dechlorinated effluent monitoring during the discharge is finished.

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- A11. In this reporting period, 63 times of landfill gas monitoring were periodically conducted at TKO Area 137 (Ch1+120 Ch1+800) until 31 October 2024. No exceedances of action level and limit level was observed.
- A12. Joint site inspections of the construction work by ET and IEC were carried out on 28 October 2024 to audit the mitigation measures implementation status.

COMPLAINT HANDLING AND PROSECUTION

A13. No environmental complaint, notification of summons and prosecution was received in the reporting period.

REPORTING CHANGE

A14. According to the contractor's information, the TKODP commenced operation phase on 1 July 2024. The outstanding construction works were being carried out during this reporting period.

SUMMARY OF UPCOMING KEY ISSUES AND KEY MITIGATION MEASURES

A15. Key activities anticipated in the next reporting period for the Contract will include the followings:

All Area

- Security Fence footing construction work
- Footpath Construction
- Landscape Construction
- Irrigation System Construction
- Water Pressure Test for FS and PL system
- Landscape planting work
- Traffic signage work
- E&M Works and Mechanical Installation

PWST

- Water Test in Tank A
- Waterproofing work at Roof Slab on Tank A
- Installation of building services, electrical switchboards and cables
- Installation of mechanical equipment, steel pipe, Pressure Test

Administration Building

- External wall aluminum features installation
- Finishing works for dog house
- Minor Installation of building services, electrical switchboards & cables, Pressure Test, T&C

Chemical building

- Defect rectification
- Repairing the defects inside the dangerous store





Combined Shaft & Pump House
Internal finishing, defect rectification
Construction of hose reel cabinet
• T&C
ActiDAFF
Installation of access opening covers for filtered water tank
Carrying out finishing works for staircase no. 3.
Minor Installation of mechanical equipment, piping system
• Minor Installation of building services, electrical switchboards and cables,
Installation of FRP Enclosure System
Product Water Storage Tank Building
• Minor Installation of building services, cable laying and termination, PV Panel
Installation, Testing & Commissioning
OSCG Building
Protective Coating for DG Rooms
Installation of Railing on Brine Maker Tank
Minor Installation of building services, cables and pipe works, T&C
• Tank surface cleaning, T&C
Reverse Osmosis Building
• Installation of Signage, AP doors, sanitary fitting, sanitary ware in toilet, tiling
work and water meter cabinets
• Minor Installation of building services, minor cable laying and termination,
Testing & Commissioning, PV Panel Installation
Post Treatment Building
Installation of Cat Ladders in Water Tanks
Placing Soil Mix at Roof
Curb Construction for Rescue Opening at Water Tanks
• Installation of building services, piping system, mechanical equipment and piping
system, Pressure Test
Inspection gallery
Construction of roof tiling works
Installation of steel balustrade at roof
Installation of movement joints
Construction of block works
Minor Installation of building service, T&C
RO and Electrical Building
Installation of Glass House
 Minor Installation of building services, electrical switchboards and cables
 Minor Installation of mechanical pipework and raised Floor,
• PV Panel Installation, T&C





Chiller plant & Main Electrical Building

• Minor Installation of building services, electrical switchboards and cables, Pressure Test, T&C

Others

- Construction works of extended access road
- A16. The major environmental impacts brought by the above construction works will include:
 - Construction dust and noise generation from excavation and construction works;
 - Waste generation from construction activities.
- A17. The key environmental mitigation measures for the Contract in the coming reporting period associated with the above construction works will include:
 - Reduction of noise from equipment and machinery on-site;
 - Dust suppression by regular wetting and water spraying for construction works and at main haul road;
 - Sorting and storage of general refuse and construction waste;
 - Deployment of silt curtain at the inshore water outflow;
 - Deployment protective fencing for trees.



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1. BASIC CONTRACT INFORMATION

BACKGROUND

- 1.1. The Acciona Agua, S.A. Trading, Jardine Engineering Corporation, Limited and China State Construction Engineering (Hong Kong) Limited as AJC Joint Venture (AJCJV) is contracted to carry out the Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (DPTKO) under Contract No. 13/WSD/17 (the Contract).
- 1.2. Acuity Sustainability Consulting Limited (ASCL) is commissioned by AJCJV to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment Report (EIA Report) (Register No. AEIAR-192/2015) and Environmental Monitoring and Audit Manual (EM&A Manual) for the Contract; and to carry out the Environmental Monitoring and Audit (EM&A) programme in fulfillment of the EIA Report's EM&A requirements and Contract No. 13/WSD/17 Specification requirements.
- 1.3. Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Environmental Permit (No. EP-503/2015/B) to Water Supplies Department (WSD); and granted the Further Environmental Permit (No. FEP-01/503/2015/B) to AJCJV for the Contract.
- 1.4. According to the contractor's information, the TKODP commenced operation phase on 1 July 2024. The outstanding construction works were being carried out during this reporting period.

THE REPORTING SCOPE

1.5. This is the 56th Monthly EM&A Report for the Contract which summarizes the key findings of the EM&A programme during the reporting period from 1 October to 31 October 2024.

CONTRACT ORGANIZATION

1.6. The Contract Organization structure for Construction Phase is presented in **Figure 1.1**.

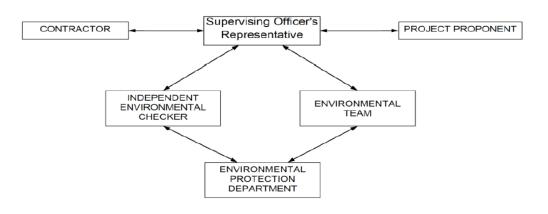


Figure 1.1 Contract Organization Chart

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1.7. Contact details of the key personnel are presented in **Table 1.1** below:

Table 1.1Contact Details of Key Personnel

Party	Position	Name	Telephone no.
Contract Proponent (Water Supplies Department)	SE/CM2	SE/CM2 Milton Law	
Supervising Officer	Project Manager	Augustine Li	2608-7671
(Binnies Hong Kong Limited)	Chief Resident Engineer	David Wong	5229-8638
	Project Manager	Stephen Yeung	2807-4665
The Jardine Engineering Corporation, Limited, China State	Environmental Monitoring Manager	Brian Kam	9456-9541
Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading	Operation Manager	Arnes Parra, Victor	6468-6710
	Environmental Monitoring Manager	Tommy Law	6468-1782
Acuity Sustainability Consulting Limited	Environmental Team Leader	Toby Wan	9719-5422
Lam Environmental Services Limited	Independent Environmental Checker (IEC)	Serena Shek	6149-6683

SUMMARY OF CONSTRUCTION WORKS

- 1.8. Details of the major construction activities undertaken in this reporting period are shown below. The master programme is presented in **Appendix A**.
- 1.9. Key activities carried out in this reporting period for the Contract included the followings:

All Area

- Security Fence footing construction work
- Footpath Construction
- Landscape Construction
- Irrigation System Construction
- Water Pressure Test for FS and PL system
- Landscape planting work
- Traffic signage work





 PWST Water Test in Tank A Waterproofing work at Roof Slab on Tank A Installation of building services, electrical switchboards a Installation of mechanical equipment, steel pipe, Pressurf Administration Building External wall aluminum features installation Finishing works for dog house Minor Installation of building services, electrical switchboards at the test of te	
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• Minor Installation of building services, minor cable la	wing and terminat
Testing & Commissioning, PV Panel Installation	
Post Treatment Building	
 Installation of Cat Ladders in Water Tanks 	
 Placing Soil Mix at Roof 	





- Curb Construction for Rescue Opening at Water Tanks
- Installation of building services, piping system, mechanical equipment and piping system, Pressure Test

Inspection gallery

- Construction of roof tiling works
- Installation of steel balustrade at roof
- Installation of movement joints
- Construction of block works
- Minor Installation of building service, T&C

RO and Electrical Building

- Installation of Glass House
- Minor Installation of building services, electrical switchboards and cables
- Minor Installation of mechanical pipework and raised Floor,
- PV Panel Installation, T&C

Chiller plant & Main Electrical Building

• Minor Installation of building services, electrical switchboards and cables, Pressure Test, T&C

Others

- Slope works
- Construction works of extended access road
- 1.10. A summary of the valid permits, licences, and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.





Table 1.2Summary of the Status of Valid Environmental Licence, Notification,Permit and Documentations

	Valid Period		-		
Permit/Licences From To		Status	Remark		
Environmental Peri	mit				
EP-503/2015/B	Throughout	the Contract	Valid	-Issued on 3 April 2024	
FEP – 01/503/2015/B	5	the Contract	Valid	-Issued on 3 April 2024	
Notification of Cons Dust) Regulation (F		s under the Aiı	Pollutio	on Control (Construction	
451539	Throughout	the Contract	Valid	-	
Billing Account for I	Disposal of Cor	nstruction Was	ste		
7036276	Throughout	the Contract	Valid	-	
Sludge (Special Was	ste) Disposal (A	Admission Tic	ket)		
17913	01/07/2024	31/12/2024	Valid	-	
17372	12/06/2024	31/12/2024	Valid	-	
Chemical Waste Pro	oducer Registra	ation			
5213-839-A2987- 01	Throughout	the Contract	Valid	-	
Wastewater Dischar	rge Licence (La	and and Marin	e works))	
WT00035775-2020	23/08/2021	31/07/2025	Valid	-	
WT00044188-2023	16/06/2023	30/06/2028	Valid	 For Plant T&C and operation. Variation sampling point S.P.1 is approved by the EPD on 25 June 2024 (EPD ref.: EP640/W3/D1358/46 2874). The variation of application of discharge license was submitted on 9 September 2024 and pending for EPD approval 	
Construction Noise Permit					
GW-RE0667-24	22/06/2024	20/12/2024	Valid	-	
	1	11	1	1	

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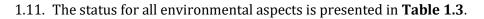


Table 1.3Summary of Status for Key Environmental Aspects under the EM&A
Manual

Parameters	Status			
Water Quality				
Baseline Monitoring under EM&A Manual	The baseline water quality monitoring was conducted between 12 May 2020 to 6 Jun 2020.			
Construction Phase Impact Monitoring	Ceased from 1 September 2023			
Operation phase Marine Impact Monitoring	On-going			
Impact Monitoring of Effluent Discharge from Main Disinfection	Completed			
Noise				
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4			
Impact Monitoring	Completed			
Waste Management				
Mitigation Measures in Waste Management Plan	On-going			
Landfill Gas				
Regular Monitoring when construction works are within the 250 m Consultation Zone	On-going			
Ecology (Coral)				
Operation phase Regular Coral Monitoring (Monthly)	On-going			
Ecology (Fishery)				
Operation phase Regular Fishery Monitoring (Seasonally)	On-going			
Ecology (Landscape)				
Operation phase Landscape and Visual Site Inspection	On-going			
Environmental Audit				
Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	On-going			

1.12. Other than the EM&A work by ET, environmental briefings, trainings, and regular environmental management meetings were conducted, in order to enhance



environmental awareness and closely monitor the environmental performance of the contractors.

1.13. The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Contract during the reporting period is provided in **Appendix C**.



aurecon

2. Noise

MONITORING REQUIREMENTS

- 2.1. To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby noise sensitive receivers (NSRs), during construction phase. The NSRs selected as monitoring station are (i) NSR4 Creative Secondary School, (ii) NSR24 PLK Laws Foundation College, and (iii) NSR31 School of Continuing and Professional Studies CUHK respectively.
- 2.2. Construction noise level were measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq 30min was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. Construction works would follow stipulations of the valid Construction Noise Permits if works had to be conducted during restricted hours or public holidays. **Table 2.1** summarizes the monitoring parameters, frequency, and duration of the impact noise monitoring.

Time	Duration	Interval	Parameters
Daytime: 0700-1900	Day time: 0700-1900 (during normal weekdays)	Continuously in $L_{eq 5min}/L_{eq 30min}$ (average of 6 consecutive $L_{eq 5min}$)	L _{eq 30min} L10 30min & L90 30min

Table 2.1Noise Monitoring Parameters, Time, Frequency and Duration

MONITORING LOCATIONS

- 2.3. The monitoring locations were normally made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. A correction of +3dB(A) should be made to the free-field measurements.
- 2.4. According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.

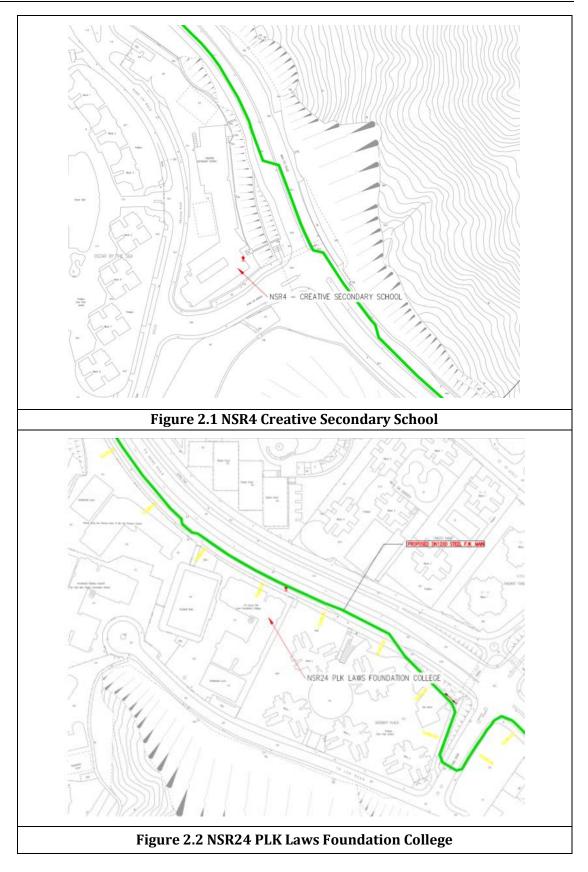
NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR 4	Creative Secondary School	Roof Floor	1 m from facade
NSR 24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-field
NSR 31	School of Continuing and Professional Studies - CUHK	Roof Floor	1 m from facade

Table 2.2Noise Sensitive Receivers

2.5. Three noise monitoring locations for impact monitoring at the nearby sensitive receivers are shown in **Figure 2.1-2.3**.

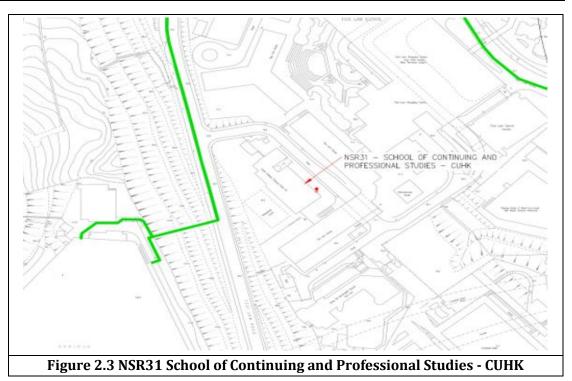












IMPACT MONITORING METHODOLOGY

- 2.6. Integrated sound level meter will be used for the noise monitoring. The meter will be in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meter will be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements will be accepted as valid only if the calibration levels before and after the noise measurements agree to within 1.0 dB(A).
- 2.7. Noise measurements were not made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

ACTION AND LIMIT LEVELS

2.8. The Action/Limit Levels are in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities – Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 are presented in **Table 2.3**.





Table 2.3Action and Limit Levels for Noise per EM&A Manual

Time Period	Action		Limit (dB(A))
	When one documented	•	70 dB(A) for school
0700-1900 on normal	complaint is received from any		and
weekdays	one of the noise sensitive	•	65 dB(A) during
	receivers		examination period

Note: Limits specified in the GW-TM and IND-TM for construction and operation noise, respectively.

2.9. If exceedances were found during noise monitoring, the actions in accordance with the Event and Action Plan shall be carried out according to **Appendix D**.

MONITORING RESULTS AND OBSERVATIONS

2.10. Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out when there are Contract-related construction activities undertaken within a radius of 300m from the monitoring stations. As no Contract-related construction activities were undertaken in the reporting month within a radius of 300m from the monitoring stations as shown in **Figure 2.4**, no impact noise monitoring was conducted in the reporting period.

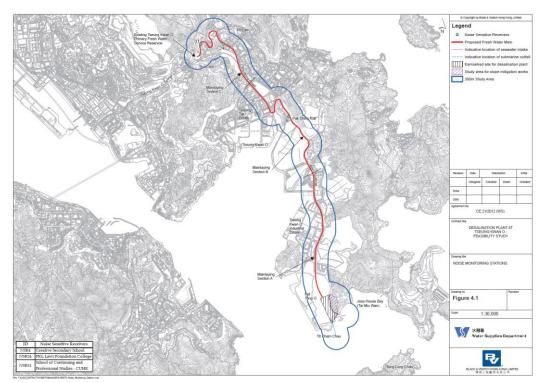


Figure 2.4 Site Layout Plan with Noise Sensitive Receivers and Desalination Plant

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3. WATER QUALITY

- 3.1. In accordance with the recommendations of the EIA, water quality monitoring is required during dredging for the submarine pipelines and, during operation phase. The following Section provides details of the water quality monitoring to be undertaken by the Environmental Team (ET) to verify the distance of sediment and brine plume dispersion and to identify whether the potential exists for any indirect impacts to occur to ecological sensitive receivers.
- 3.2. The water quality monitoring programme was be carried out to allow any deteriorating water quality to be readily detected and timely action taken to rectify the situation.
- 3.3. Water quality monitoring for the Contract can be divided into the following stages:
 - Dredging activities during construction phase;
 - Discharge of effluent from main disinfection during construction phase; and
 - Operation activities during operation phase.

WATER QUALITY PARAMETERS

3.4. The parameters that have been selected for measurement in situ and in the laboratory are those that were either determined in the EIA to be those with the most potential to be affected by the construction works or are a standard check on water quality conditions. Parameters to be measured in the impact monitoring are listed in **Table 3.1**.

 Table 3.1
 Parameters measured in the Impact Marine Water Quality Monitoring

Parameters	Unit	Abbreviation
In-situ measurements		
Dissolved oxygen	mg/L	DO
Temperature	٥C	-
pH	-	-
Turbidity	NTU	-
Salinity	0/00	-
Total Residual Chlorine NOTE1	mg/L	TRC
Laboratory measurements		
Suspended Solids	mg/L	SS
Iron-Soluble	mg/L	Fe
Anti-scalant as Reactive Phosphorus	mg/L	PO4 as P-

NOTE 1: Monitoring of Total Residual Chlorine will be conducted when cleaning and sterilization of the new freshwater main is carried out.

3.5. In addition to the water quality parameters, other relevant data were also being measured and recorded in Water Quality Monitoring Logs, including the location of the sampling stations, water depth, time, weather conditions, sea conditions, tidal stage, current direction and velocity, special phenomena and work activities undertaken around the monitoring and works area that may influence the monitoring results.

MONITORING EQUIPMENT

3.6. For water quality monitoring, the following equipment were used:

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Dissolved Oxygen and Temperature Measuring Equipment - The instrument was a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and was operable from a DC power source. It was capable of measuring: dissolved oxygen levels in the range of 0 - 20 mg/L and 0 - 200% saturation; and a temperature of 0 - 45 degrees Celsius. It has a membrane electrode with automatic temperature compensation complete with a cable of not less than 35 m in length. Sufficient stocks of spare electrodes and cables were available for replacement where necessary (e.g. YSI model 59 DO meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

Turbidity Measurement Equipment - The instrument was a portable, weatherproof turbidity-measuring unit complete with cable, sensor and comprehensive operation manuals. The equipment was operated from a DC power source, it has a photoelectric sensor capable of measuring turbidity between 0 - 1000 NTU and complete with a cable with at least 35 m in length (for example Hach 2100P or an approved similar instrument).

Salinity Measurement Instrument - A portable salinometer capable of measuring salinity in the range of 0 - 40 ppt was provided for measuring salinity of the water at each monitoring location.

Water Depth Gauge – A portable, battery-operated echo sounder (for example Seafarer 700 or a similar approved instrument) was used for the determination of water depth at each designated monitoring station. This unit will preferably be affixed to the bottom of the work boat if the same vessel is to be used throughout the monitoring programme. The echo sounder was suitably calibrated.

Positioning Device – A Global Positioning System (GPS) was used during monitoring to allow accurate recording of the position of the monitoring vessel before taking measurements. The Differential GPS, or equivalent instrument, was suitably calibrated at appropriate checkpoint (e.g. Quarry Bay Survey Nail) to verify that the monitoring station is at the correct position before the water quality monitoring commence.

Water Sampling Equipment - A water sampler, consisting of a PVC or glass cylinder of not less than two litres, which can be effectively sealed with cups at both ends, was used. The water sampler has a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.

Total Residual Chlorine -Total residual chlorine (TRC) shall be measured in-situ using approved test kit.

SAMPLING / TESTING PROTOCOLS

3.7. All in situ monitoring instruments were checked, calibrated, and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at monthly intervals throughout the stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use.





3.8. On-site calibration of field equipment was following the "*Guide to On-Site Test Methods for the Analysis of Waters*", BS 1427: 2009. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was made available so that monitoring can proceed uninterrupted even when equipment is under maintenance, calibration etc.

LABORATORY MEASUREMENT AND ANALYSIS

- 3.9. Sufficient volume of each water sample was collected for carrying out the laboratory analyses. Using chain of custody forms, collected water samples were transferred to a HOKLAS accredited laboratory (Acumen Laboratory and Testing Limit HOKLAS 241) for immediate processing. The determination work was start within the next working day after collection of the water samples. Analytical methodology and sample preservation of other parameters were based on the latest edition of Standard Methods for the Examination of Waste and Wastewater published by APHA, AWWA and WPCF and methods by USEPA, or suitable method in accordance with requirements of HOKLAS or another internationally accredited scheme. The QA/QC details were in accordance with the requirements of HOKLAS or another internationally accredited scheme.
- 3.10. Parameters for laboratory measurements, standard methods and detection limits are presented in **Table 3.2**.

detection limits of marine water quanty monitoring						
Parameters	Standard Methods	Detection Limit	Reporting Limit	Precision		
Dissolved oxygen	Instrumental, CTD	0.1	-	±25%		
Temperature	Instrumental, CTD	0.1	-	±25%		
рН	Instrumental, CTD	0.1	-	±25%		
Turbidity	Instrumental, CTD	0.1	-	±25%		
Salinity	Instrumental, CTD	0.1	-	±25%		
Suspended Solids	APHA 23 rd Ed 2540D	1.0	2.5	±17%		
Iron	APHA 3111 B	0.2	-	±25%		
Total residual chlorine	Test Kit (Lovibond MD200)	Lowest limit = 0.01mg/L; Upper limit = 6 mg/L	-	±25%		

Table 3.2Laboratory measurements, standard methods, and corresponding
detection limits of marine water quality monitoring

MONITORING LOCATION

Construction Phase

3.11. The Impact water quality monitoring was ceased from 1 September 2023 due to the completion of marine-related construction works.



Operation phase

3.12. The operation phase impact water quality monitoring locations are in accordance with the EM&A Manual and detailed in **Table 3.3** below. A schedule for water quality monitoring was prepared by the ET and submitted to IEC and EPD prior to the commencement of the monitoring.

Station	Easting	Northing	Description
CE	843550	815243	Upstream control station at ebb tide
CF	846843	810193	Upstream control station at flood tide
WSR1	846864	812014	Ecological sensitive receiver at Tung Lung Chau
WSR2	847645	812993	Fisheries sensitive receiver at Tung Lung Chau
WSR3	848023	813262	Ecological sensitive receiver at Tung Lung Chau
WSR4	847886	814154	Ecological sensitive receiver at Tai Miu Wan
WSR16	845039	815287	Ecological sensitive receiver at Fat Tong Chau
WSR33	847159	814488	Ecological sensitive receiver at Tai Miu Wan
WSR36	846878	814081	Ecological sensitive receiver at Kwun Tsai
WSR37	846655	813810	Ecological sensitive receiver at Tit Cham Chau
NF1	846542	813614	Edge of Mixing zone, ~ 200m west of outfall diffuser
NF2	846942	813614	Edge of Mixing zone, ~ 200m east of outfall diffuser
NF3	846742	813414	Edge of Mixing zone, ~ 200m south of outfall diffuser

Table 3.3	Location of Imr	oact Water Qualit	ty Monitoring Stations
I UDIC DID	Location of him	Juce match Quan	ly Montel mg blactons

3.13. WSR1 to WSR37 were identified in accordance with Annex 14 of the EIAO-TM as well as Clause 3.4.4.2 of the Environmental Impact Assessment Study Brief for Desalination Plant at Tseung Kwan O (No. ESB-266/2013). WSR1 to WSR3 are sited near the Tung Lung Chau Fish Culture Zone; WSR16 and WSR36 are sited near the coral assemblages along the coastlines of Fat Tong Chau and Kwun Tsai respectively; WSR 4 and WSR33 are sited near the Coastal Protection Area and coral assemblages in waters of Tai Miu Wan; WSR37 is sited near the fisheries resource including spawning and nursery grounds at the coastal water of Tit Cham Chau. NF1 to NF3 are the Edge of Mixing zone.





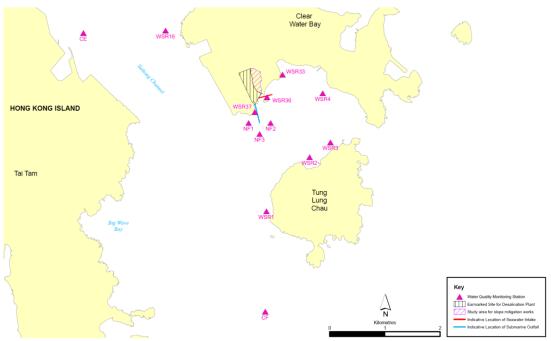


Figure 3.1 Impact water quality monitoring locations under EM&A Manual

SAMPLING FREQUENCY

Operation phase

3.14. Impact water quality monitoring were carried out three days per week during the commission phase. Monitoring at each station was undertaken once per day. The interval between two sets of monitoring was not less than 36 hours. The monitoring frequency would be increased in the case of exceedances of Action/Limit Levels if considered necessary by ET. Monitoring frequency would be maintained as far as practicable.

SAMPLING DEPTHS & REPLICATION

3.15. During impact water quality monitoring, each station was sampled, and measurements/ water samples were taken at three depths, 1 m below the sea surface, mid-depth, and 1 m above the seabed. For in situ measurements, duplicate readings were made at each water depth at each station. Duplicate water samples were collected at each water depth at each station.

ACTION AND LIMIT LEVELS

Operation phase

3.16. The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. The Action/Limit Levels have been derived and are presented in Table 3.4.

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Table 3.4Derived Action and Limit Levels for Water Quality

Parameters	Action	Limit					
Operation phase Impact Monitoring							
DO in mg/L	Surface and Middle	Surface and Middle					
	7.30 mg L ⁻¹	4 mg L ⁻¹					
	Bottom	Bottom					
	7.31 mg L ⁻¹	2 mg L ⁻¹					
	<u>Tung Lung Chau Fish Culture Zone</u>	Tung Lung Chau Fish Culture Zone					
	5.1 mgL ⁻¹ or level at control station	5.0 mgL ⁻¹ or level at control station					
	(Whichever the lower)	(Whichever the lower)					
SS in mg/L	5.00 mg L ⁻¹ or 20% exceedance of	6.00 mg L ⁻¹ or 30% exceedance of value					
(Depth-	value at any impact station	at any impact station compared with					
averaged)	compared with corresponding data	corresponding data from control					
	from control station	station					
Turbidity in	2.41 NTU or 20% exceedance of	2.84 NTU or 30% exceedance of value					
NTU (Depth-	value at any impact station	at any impact station compared with					
averaged)	compared with corresponding data	corresponding data from control					
	from control station	station					
Salinity in	34.25 PSU or 9% exceedance of	34.56 PSU or 10% exceedance of value					
PSU (Depth-	value at any impact station	at any impact station compared with					
averaged)	compared with corresponding data	corresponding data from control					
	from control station	station					
Iron in mg/L	0.3 mg/L	0.3 mg/L					
(Depth-							
averaged)							
Total residual	0.01 mg/L	0.01 mg/L					
chlorine in							
mg/L							

Notes:

ii.For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

iii.For Turbidity, SS, iron and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

iv.Monitoring of Total Residual Chlorine (Disinfection) will be conducted when cleaning and sterilization of the new freshwater main is carried out.

i."Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.





MONITORING RESULTS AND OBSERVATIONS

Construction Phase

3.17. Referring to EM&A Manual, the general water quality monitoring should be carried out when there are marine-related construction activities undertaken. General water quality monitoring at the ten monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36 and WSR37) was ceased from 1 September 2023 due to the completion of marine-related construction works.

Operation phase

3.18. According to the contractor's information, the operation phase of TKODP commenced on 1 July 2024. Details of the operation phase marine water quality monitoring and continuous monitoring of effluent quality will be presented in the Operation Monthly EM&A Report.



4. WASTE

4.1. The waste generated from this Contract includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the Contract are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Contract, the quantities of different types of waste generated in the reporting month are summarized in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix G**.

Table 4.1	Quantities of Waste Generated from the Contract during the reporting period
-----------	---

	Actual Quantities of Inert C&D Materials Generated Monthly						Actual	Quantities of	C&D Wastes	Generated M	lonthly
Reporting 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 ⁽¹⁾	Chemical Waste	Others, e.g., general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Oct 2024	78.140	0.000	0.000	0.000	78.140	0.000	0.000	0.000	0.000	0.000	71.810

Notes: (1) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



5. LANDFILL GAS MONITORING

MONITORING REQUIREMENT

5.1. In accordance with Section 11 of the EM&A Manual, monitoring of landfill gas is required for construction works within the 250m Consultation Zone. Part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone; and part of the 1,200 mm diameter fresh water mains along Wan Po Road falls within the SENT Landfill and SENT Landfill Extension Consultation Zones, TKO Stage II/III Restored Landfill and TKO Stage I Restored Landfill Consultation Zones.

MONITORING PROGRAMME

5.2. Since part of the desalination plant (Wan Po Road and MIC compound/Basketball Court) and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone in this contract (**Figure 5.1**), landfill gas monitoring would be required for Wan Po Road and MIC compound/Basketball Court (**Figure 5.2**) if excavations were conducted at more than 300mm deep. Although SENT Landfill Extension has commenced operation since November 2021, no excavation works were conducted at MIC compound/Basketball Court. Hence no landfill gas monitoring would be scheduled for MIC compound/Basketball Court at the current stage.

MONITORING LOCATION

- 5.3. Monitoring of oxygen, methane, carbon dioxide and barometric pressure would be performed for excavations at 1m depth or more within the consultation Zone.
- 5.4. During construction of works within the consultation zones, excavations of 1m depth or more was monitored:
 - At the ground surface before excavation commences;
 - Immediately before any worker enters the excavation;
 - At the beginning of each working day for the entire period the excavation remains open; and
 - Periodically through the working day whilst workers are in the excavation.
- 5.5. For excavations between 300mm and 1m deep, measurements were carried out:
 - Directly after the excavation has been completed; and
 - Periodically whilst the excavation remains open.
- 5.6. The area required to be monitored for landfill gas in the reporting period is shown in **Figure 5.1**.



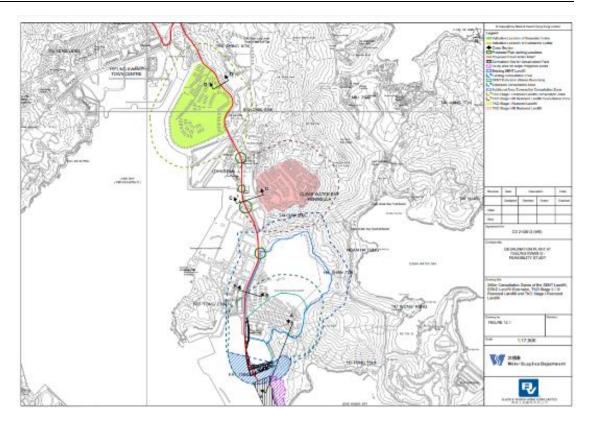


Figure 5.1 Overview of the SENT Extension Consultation Zone and the Contract Site Area

MONITORING PARAMETERS

5.7. The landfill gas monitoring parameters and the action and limit level are summarized in **Table 5.1**.

Parameters	Action Level	Limit Level	
Oxygen (O ₂)	<19% 02	< 19% 0 ₂	
Methane (CH ₄)	>10% LEL	>20% LEL	
Carbon Dioxide (CO ₂)	>0.5% CO ₂	>1.5% CO ₂	

Table 5.1Action and Limit Level for Landfill Gas Monitoring Equipment

MONITORING EQUIPMENT

- 5.8. Landfill Gas monitoring was carried out using intrinsically-safe, portable multi-gas monitoring instruments. The gas monitoring equipment is:
 - Complying with the Landfill Gas Hazard Assessment Guidance Note as intrinsically safe;
 - Capable of continuous barometric pressure and gas pressure measurements;
 - Normally operated in diffusion mode unless required for spot sampling, when it should be capable of operating by means of an aspirator or pump;
 - Having low battery, fault and over range indication incorporated;
 - Capable of storing monitoring data, and shall be capable of being downloaded directly;
 - Measure in the following ranges:



methane	0-100% Lower Explosion Limit (LEL) and 0-100% v/v;
oxygen	0-25% v/v;
carbon dioxide	0-5% v/v; and
barometric pressure	mBar (absolute)

• alarm (both audibly and visually) in the event that the concentrations of the following are exceeded:

methane	>10% LEL;
oxygen	<19%
carbon dioxide	>0.5% by volume
barometric pressure	mBar (absolute)

5.9. Monitoring equipment used in the reporting period are summarized in **Table 5.2**. The Landfill Gas monitoring equipment calibration certificate is presented in **Appendix E**.

Table 5.2Landfill Gas Monitoring Equipment

Equipment	Brand and Model	Calibration Expiry Date
Portable Gas Detector	GMI PS500 - 25492809/21	29 July 2025

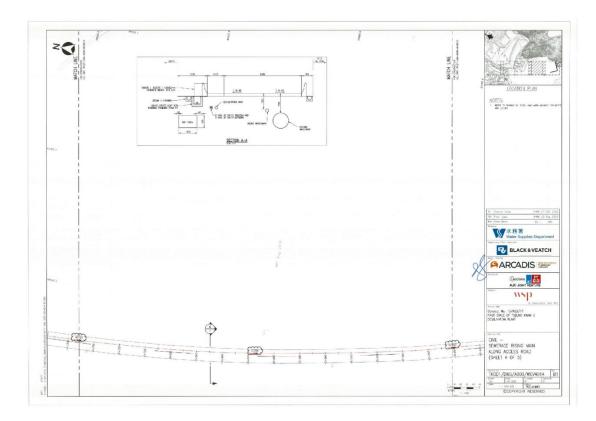


Figure 5.2 Location Map for Landfill Gas Monitoring at TKO Area 137 (-0+440 - -0+760)

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Figure 5.3 Location Map for Landfill Gas Monitoring at TKO Area 137 (-0+740 - -1+060)

MONITORING RESULTS AND OBSERVATIONS

5.10. In this reporting period, 63 times of landfill gas monitoring were periodically conducted during excavations at 300mm to 1m depth within the consultation zone and whenever workers entered the excavation on the day at TKO Area 137 (Ch1+120 – Ch1+800) until 31 October 2024. No exceedances of action level and limit level was observed.



6. ECOLOGY(LANDSCAPE)

MONITORING REQUIREMENTS

6.1. In accordance with Section 8.1 of the EM&A Manual, weekly site audit shall be carried out by the ET include checking whether good site practices are being properly implemented by the Contractor and the extent of the works area within the Clear Water Bay Country Park should be checked by the ET during the weekly site audit.

SITE INSPECTION

- 6.2. Weekly site audit was carried out by the ET in the reporting month, no trespass by the Contractor outside the works area of the Project and Clear Water Bay Country Park, and no damage to the vegetation and rocky shore outside the Project area was observed in the reporting month. Retained trees was properly protected during the construction works, no unacceptable construction works was observed.
- 6.3. If non-compliance were found during the construction works, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix D**.



7. ECOLOGY (CORAL MONITORING)

7.1. Under the approval conditions of the EIA Report for the Project, an EM&A programme on coral for the operation phase of the Project is recommended. Pursuant to these EIA approval conditions and Condition 3.1 of the EP and FEP, details of the regular coral monitoring programme have been proposed based on the baseline coral monitoring results in the Report on Pre-Operation Baseline Coral Monitoring and Regular Coral Monitoring Methodology.

MONITORING LOCATION

7.2. In accordance with Appendix B Section 5.1 of the approved supplementary EM&A Manual, two indirect impact sites (C2 and C3) and one control site (C8) as shown in **Figure 7.1** should be monitored during the operation Phase. Pre-operation coral survey should be conducted at the indirect impact and control sites. Ten selected hard coral colonies with similar species should be tagged at each of the control and indirect impact sites before commencement of the operation phase. Tagged hard coral colonies should be monitored in open waters during the pre-operation phase and operation phase.

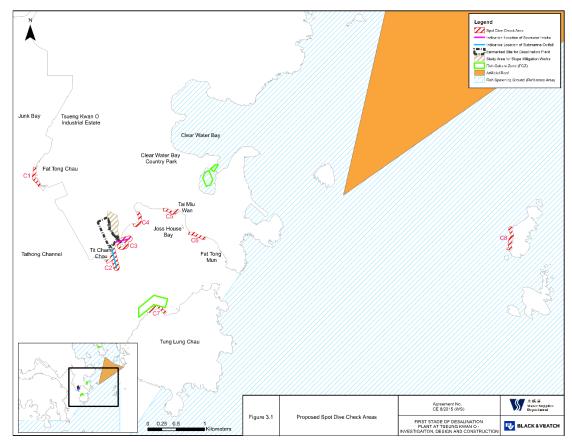


Figure 7.1 Spot Dive Check Areas Two Proposed Indirect Impact Sites (C2 and C3) and one control site (C8) during operation Phase



ACTION AND LIMIT LEVELS

7.3. The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. The Action/Limit Levels have been derived and are presented in Table 7.1.

 Table 7.1
 Action and Limit Level for Coral Monitoring Equipment

Parameter	Action Level Definition	Limit Level Definition
Mortality	If during Impact Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded on the tagged corals at the control site, then the Action Level is	If during Impact Monitoring a 25% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded on the tagged corals at the control site, then the Limit Level is
	exceeded	exceeded

Note: If the defined Action Level or Limit Level for coral monitoring is exceeded, the actions as set out in **Table E3 of Appendix D** will be implemented.

7.4. If non-compliance were found during the construction works, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix D**.

MONITORING FREQUENCY

7.5. Operation phase coral monitoring shall be monitored once per month as the requirement of the first year of operational phase.

MONITORING RESULT AND OBSERVATION

7.6. According to the contractor's information, the operation phase of TKODP commenced on 1 July 2024. Details of the operation phase coral monitoring will be presented in the Operation Monthly EM&A Report.



8. ECOLOGY (FISHERY MONITORING)

8.1. The purpose of the operation phase regular fisheries monitoring programme is to monitor the potential impacts on fisheries resources in the vicinity of the project site. Apart from the regular fisheries monitoring programme, a water quality monitoring programme in addition to the water quality monitoring programme in the approved EM&A Manual is also described in Section 2.4 to (i) provide supplementary information in the interpretation of the findings of the fisheries monitoring and (ii) assist the monitoring of the potential impact on the Tung Lung Chau Fish Culture Zone (FCZ) in Joss House Bay.

MONITORING LOCATION

- 8.2. In accordance with Section 2.3 of the approved Methodology Paper on Regular Fisheries Monitoring, it is recommended to set up six (6) fisheries monitoring locations in Joss House Bay and its vicinity to monitor the fisheries resources.
- 8.3. Two (2) sampling locations are set up in close proximity of the direct footprint of the proposed submarine utilities around TKO Area 137. These sampling locations represent the potential Project impact zones (i.e. areas at and in close proximity to the footprint of the proposed submarine utilities that will be directly affected by the Project works).
- 8.4. Two (2) gradient locations are proposed between the proposed submarine utilities and Tung Lung Chau FCZ to assist in the interpretation and identification of any potential fisheries impact in the vicinity of the FCZ.
- 8.5. Two (2) reference locations are proposed in the outer Joss House Bay between the waters of Tung Lung Chau and Fat Tong Mun. These reference locations are further away and will not be affected by the Project discharge (based on the EIA prediction) and will serve as control stations. Any significant fisheries impact identified at the reference locations should be caused by other natural factors or non-Project activities. The trends of fisheries conditions recorded in the reference locations will be used to assist in the interpretation of the trends of fisheries impact identified in the impact and gradient locations.
- 8.6. The coordinates of the proposed monitoring locations are shown in **Figure 8.1**.



aurecon

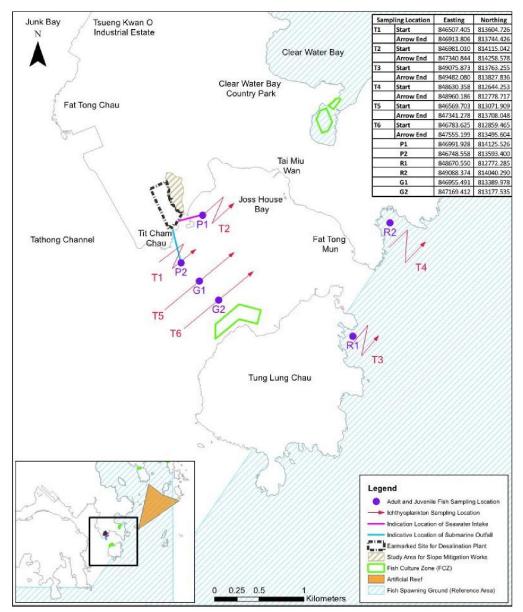


Figure 8.1 Monitoring location of regular fishery monitoring during pre-operation Phase

MONITORING FREQUENCY

- 8.7. Operation phase fishery monitoring shall be carried out 2 times in wet season (April to October) and 2 times in dry season (November to March) to examine the following:
 - Fish species composition;
 - Abundance: number of fish captured;
 - Diversity of fish resources: species diversity and evenness;
 - Size: range of total length; Biomass in weight; and
 - Values of catches of commercial species: catch per unit effort (CPUE) and yield per unit effort (YPUE).



MONITORING RESULT AND OBSERVATION

8.8. According to the contractor's information, the operation phase of TKODP commenced on 1 July 2024. Details of the operation phase fishery monitoring will be presented in the Operation Monthly EM&A Report.



9. SUMMARY OF EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

9.1. The Environmental Complaint Handling Procedure is shown in below **Figure 9.1**:

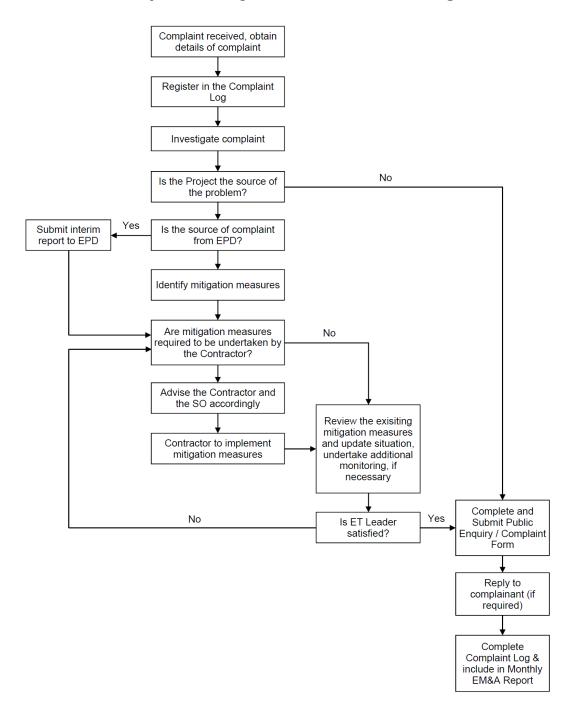


Figure 9.1 Environmental Complaint Handling Procedures



- 9.2. No noise monitoring was conducted during the reporting period since there are no Contract-related construction activities undertaken within a radius of 300m from the monitoring locations. No action Level exceedance for construction noise monitoring was recorded in the reporting month.
- 9.3. Construction phase general water quality monitoring at the ten monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36 and WSR37) are ceased from 1 September 2023 due to the completion of marine-related construction works.
- 9.4. The operation phase of TKODP commenced on 1 July 2024. Details of the operation phase marine water quality monitoring, continuous monitoring of effluent quality, coral monitoring, fishery monitoring and operation landfill gas monitoring will be presented in the Operation Monthly EM&A Report.
- 9.5. In this reporting period, 63 times of landfill gas monitoring were periodically conducted at TKO Area 137 (Ch1+120 Ch1+800) until 31 October 2024. No exceedances of action level and limit level was observed.
- 9.6. No environmental complaint, notification of summons and prosecution Statistics on complaint and notification of summons and prosecution are summarized in **Appendix I**.



10. EM&A SITE INSPECTION

10.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 3, 8, 15, 22 and 28 October 2024 at the site portions listed in **Table 10.1** below.

Date	Inspected Site Portion	Time
3 October 2024	TKO Area 137	14:30 - 15:30
8 October 2024	TKO Area 137	14:30 - 15:30
15 October 2024	TKO Area 137	14:30 - 15:30
22 October 2024	TKO Area 137	14:30 - 15:30
28 October 2024	TKO Area 137	09:15 - 12:30

Table 10.1	Summaries of Site Inspection Record

- 10.2. Joint site inspection with IEC was carried out on 28 October 2024.
- 10.3. Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 10.2**.

Table 10.2	Site Observations
------------	-------------------

Date	Environmental Observations	Follow-up Status
3 October 2024	No major environmental deficiency was observed.	N/A
8 October 2024	No major environmental deficiency was observed.	N/A
15 October 2024	No major environmental deficiency was observed.	N/A
22 October 2024	No major environmental deficiency was observed.	N/A
28 October 2024	No major environmental deficiency was observed.	N/A

10.4. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix C**. Site inspection proforma of the reporting period is provided in **Appendix H**.



11. FUTURE KEY ISSUES

11.1. Works to be undertaken in the next reporting month are:

All Area

- Security Fence footing construction work
- Footpath Construction
- Landscape Construction
- Irrigation System Construction
- Water Pressure Test for FS and PL system
- Landscape planting work
- Traffic signage work
- E&M Works and Mechanical Installation

PWST

- Water Test in Tank A
- Waterproofing work at Roof Slab on Tank A
- Installation of building services, electrical switchboards and cables
- Installation of mechanical equipment, steel pipe, Pressure Test

Administration Building

- External wall aluminum features installation
- Finishing works for dog house
- Minor Installation of building services, electrical switchboards & cables, Pressure Test, T&C

Chemical building

- Defect rectification
- Repairing the defects inside the dangerous store

Combined Shaft & Pump House

- Internal finishing, defect rectification
- Construction of hose reel cabinet

• T&C

ActiDAFF

- Installation of access opening covers for filtered water tank
- Carrying out finishing works for staircase no. 3.
- Minor Installation of mechanical equipment, piping system
- Minor Installation of building services, electrical switchboards and cables, Installation of FRP Enclosure System

Product Water Storage Tank Building

• Minor Installation of building services, cable laying and termination, PV Panel Installation, Testing & Commissioning

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OSCG Building

- Protective Coating for DG Rooms
- Installation of Railing on Brine Maker Tank
- Minor Installation of building services, cables and pipe works, T&C
- Tank surface cleaning, T&C

Reverse Osmosis Building

- Installation of Signage, AP doors, sanitary fitting, sanitary ware in toilet, tiling work and water meter cabinets
- Minor Installation of building services, minor cable laying and termination, Testing & Commissioning, PV Panel Installation

Post Treatment Building

- Installation of Cat Ladders in Water Tanks
- Placing Soil Mix at Roof
- Curb Construction for Rescue Opening at Water Tanks
- Installation of building services, piping system, mechanical equipment and piping system, Pressure Test

Inspection gallery

- Construction of roof tiling works
- Installation of steel balustrade at roof
- Installation of movement joints
- Construction of block works
- Minor Installation of building service, T&C

RO and Electrical Building

- Installation of Glass House
- Minor Installation of building services, electrical switchboards and cables
- Minor Installation of mechanical pipework and raised Floor,
- PV Panel Installation, T&C

Chiller plant & Main Electrical Building

• Minor Installation of building services, electrical switchboards and cables, Pressure Test, T&C

Others

- Construction works of extended access road
- 11.2. The major environmental impacts brought by the above construction works will include:
 - Construction dust and noise generation from excavation and construction works;
 - Waste generation from construction activities.
- 11.3. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
 - Dust suppression by regular wetting and water spraying for construction works;



- Reduction of noise from equipment and machinery on-site by regular checking of on-site plant/vehicle to ensure proper functioning;
- Sorting and storage of general refuse and construction waste;
- Deployment of silt curtain at the inshore water outflow; and
- Deployment protective fencing for trees



12. CONCLUSIONS AND RECOMMENDATIONS

- 12.1. This is the 56th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 October to 31 October 2024, in accordance with the EM&A Manual and the requirement under FEP-01/503/2015/B.
- 12.2. No noise monitoring was conducted in the reporting period due to the construction activities not being undertaken within a radius of 300m from the monitoring locations.
- 12.3. The construction phase marine water quality programme was ceased from 1 September 2023 due to the completion of marine-related construction works.
- 12.4. The operation phase of TKODP commenced on 1 July 2024. Details of the operation phase marine water quality monitoring, continuous monitoring of effluent quality, coral monitoring, fishery monitoring and operation landfill gas monitoring will be presented in the Operation Monthly EM&A Report.
- 12.5. In this reporting period, 63 times of landfill gas monitoring were periodically conducted at TKO Area 137 (Ch1+120 Ch1+800) until 31 October 2024. No exceedances of action level and limit level was observed.
- 12.6. Weekly environmental site inspections were conducted during the reporting period. Observations and reminders were reported during the site inspections. All items are rectified within the reporting period. The environmental performance of the project was therefore considered satisfactory.
- 12.7. According to the environmental site inspections performed in the reporting month, the Contractor is reminded to pay attention on chemical storage, site hygiene and dust suppression mitigation measures.
- 12.8. No environmental complaint, notification of summons and prosecution was received in the reporting period.
- 12.9. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.





Appendix A

Master Programme

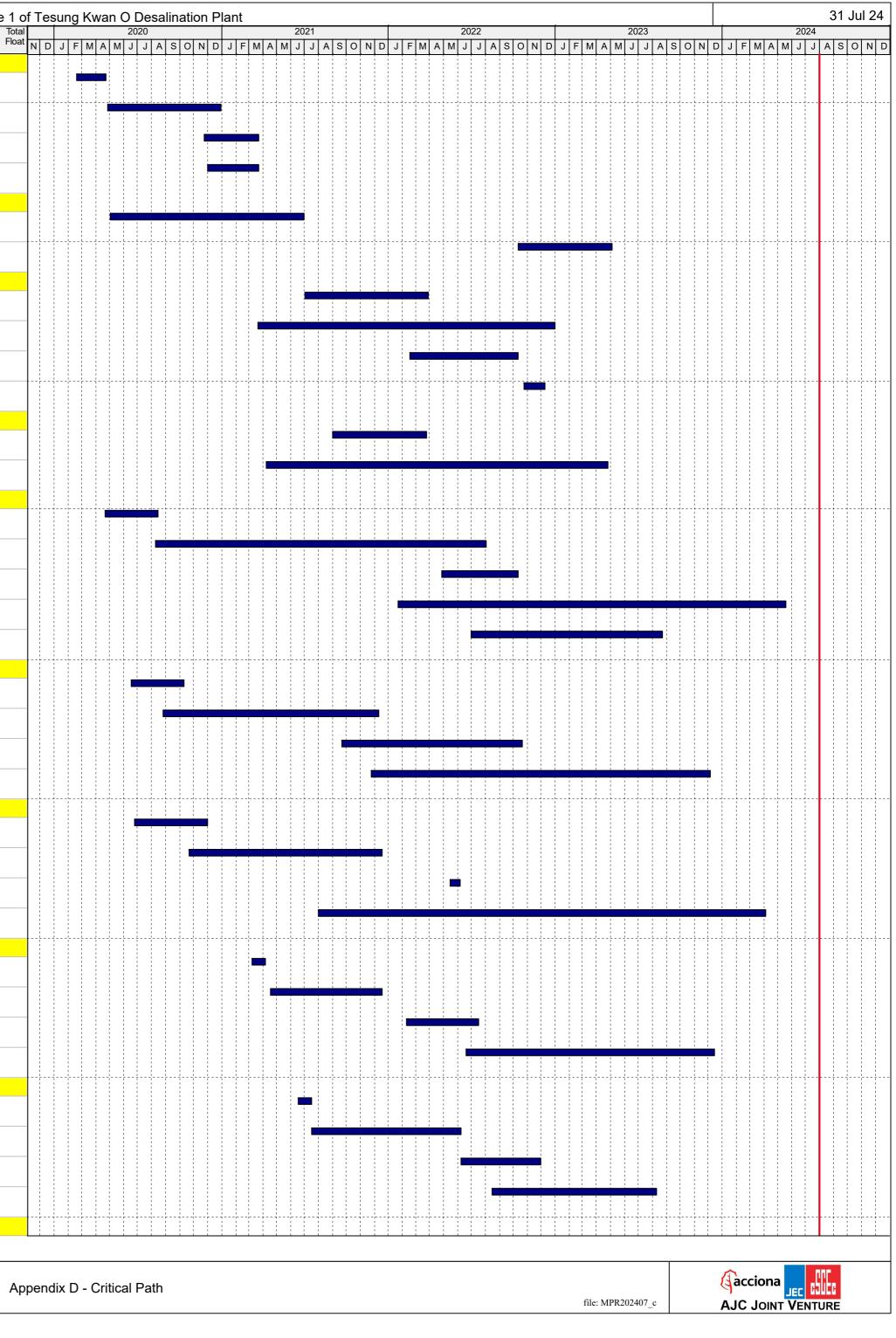
/ ID	Activity Name	Baseline Duration	Baseline Start	Baseline Finish		Actual / Planned Start	Actual / Planned Finish	Actual % Complete	Variance Finish Date	Total Float	of Te
roject Progra	amme Updated as at 31 Jul 2024										
Key Dates	cont and Completion Date										
KD0000100	nent and Completion Date Letter of Acceptance	0	15-Nov-19		0	15-Nov-19A		100%	0		\$ L
KD0000110	Commencement of the Works	0	30-Dec-19		0	30-Dec-19A		100%	0		-
KD0000120	Original Completion of the Works (1170 Days)	0		13-Mar-23	0		13-Mar-23 A	100%	0		
KD0000130	Revised Completion of the Works (324 Days EOT Granted)	0			0	14-Mar-23 A	31-Jan-24 A	100%	-		-
KD0000510					0		30-Jun-24 A	100%			-
	Planned Completion of the Works	0			U		30-Jun-24 A	100%			
Possession (KD0000200	of Site Possession of First Stage Portion A	0	30-Dec-19		0	30-Dec-19A		100%	0		
KD0000210	Possession of First Stage Portion B	0	30-Dec-19		0	30-Dec-19A		100%	0		
KD0000220	Possession of Area for Access Road	0	30-Dec-19		0	30-Dec-19A		100%	0		-
											-
KD0000230	Possession of Temporary Works Area 1	0	30-Dec-19		0	30-Dec-19A		100%	0		
KD0000240	Possession of Temporary Works Area 2	0	30-Dec-19		0	30-Dec-19A		100%	0		
KD0000250	Possession of Temporary Works Area 3	0	30-Dec-19		0	30-Dec-19A		100%	0		
KD0000260	Possession of Temporary Works in Clear Water Bay Country Park	0	30-Dec-19		0	30-Dec-19A		100%	0		
xecutive Sur						J					
Preliminary S ES0001000	Setup Mobilization and Preliminary Set Up	191	30-Dec-19	07-Jul-20	0	30-Dec-19A	20-Jul-20 A	100%	-13		
Civil Design	AIP and DDA										
	AIP Civil Design Submission and Approval	330	30-Dec-19	23-Nov-20	0	30-Dec-19A	31-Aug-20 A	100%	84		
ES0001020	DDA Civil Design Submission and Approval	414	28-Feb-20	16-Apr-21	0	22-Jan-20 A	01-Sep-21 A	100%	-138		-
1&E Design	AIP and DDA										
ES0002000	M&E AIP Process Mechanical Submission and Approval	477	30-Dec-19	19-Apr-21	0	30-Dec-19A	22-Dec-20 A	100%	118		
ES0002010	M&E DDA Process Mechanical Submission and Approval	679	08-Feb-20	17-Dec-21	0	21-Jul-20 A	02-Sep-21 A	100%	106		
ES0002020	M&E AIP Instrumentation & Control Submission and Approval	607	31-Jan-20	28-Sep-21	0	04-Feb-20 A	25-Feb-20 A	100%	581		
ES0002030	M&E DDA Instrumentation & Control Submission and Approval	514	22-Jul-20	17-Dec-21	0	13-Feb-21 A	14-Apr-23 A	100%	-482		-
ES0002050	M&E DDA Renewable Energy Submission and Approval	382	16-Aug-20	01-Sep-21	0	17-Aug-20 A	31-Dec-20 A	100%	244		-
ES0002060	M&E AIP Building Services Submission and Approval	226	30-Dec-19	11-Aug-20	0	30-Dec-19A	30-Oct-20 A	100%	-80		-
ES0002065	M&E Design Basis & Civil Guidance Dwg	112	30-Dec-19	19-Apr-20	0	30-Dec-19A	24-Jul-20 A	100%	-96		-
				· ·	-						
ES0002070	M&E DDA Building Services Submission and Approval	306	28-Feb-20	29-Dec-20	0	01-Mar-20 A	30-Jun-21 A	100%	-183		
ES0002085	M&E AIP Site Wide Electrical Submission and Approval	155	09-Jun-20	10-Nov-20	0	21-Mar-20 A	22-Jul-20 A	100%	111		
ES0002090	M&E CMS Lift Submission and Approval	140	27-Aug-20	13-Jan-21	0	01-Oct-20 A	20-Jul-21 A	100%	-188		
ES0002095	M&E DDA Site Wide Electrical Submission and Approval	140	11-Nov-20	30-Mar-21	0	23-Jul-20 A	04-Jun-21 A	100%	-66		
ES0002100	M&E DDA T&C Design Submission and Approval	155	29-Mar-22	30-Aug-22	0	01-Aug-21 A	05-Oct-23 A	100%	-401		
Procurement	of Major Plant & Equipment Schedule										
ES0002320	M&E Procurement of Major Plant, Equipment, Material and Delivery	901	14-Mar-20	31-Aug-22	0	04-Feb-20 A	16-Jan-23 A	100%	-137		
ES2420	M&E Procurement of Mechanical Equipment - Intake Pumps	595	18-May-20	02-Jan-22	0	04-Feb-20 A	11-May-22 A	100%	-128		
ES2430	M&E Procurement of Mechanical Equipment - ActiDAFF Underdrain	333	30-Oct-20	27-Sep-21	0	02-Aug-20 A	14-Mar-22 A	100%	-168		
ES2440	M&E Procurement of Mechanical Equipment - ActiDAFF Media	298	15-Mar-21	06-Jan-22	0	23-Jul-20 A	14-Oct-22 A	100%	-281		
ES2450	M&E Procurement of Mechanical Equipment - RO and ERD Rack	274	22-Feb-21	22-Nov-21	0	22-Jul-20 A	28-Dec-21 A	100%	-36		
ES2460	M&E Procurement of Mechanical Equipment - RO Membrane	755	29-Mar-20	22-Apr-22	0	12-Feb-20 A	28-Dec-22 A	100%	-249		
ES2470	M&E Procurement of Electrical Equipment - CLP Substation for LV	300	14-Mar-20	07-Jan-21	0	14-Mar-20 A	28-Feb-21 A	100%	-52		
L02410	Switchboard / Genset / Building Services	300		01-Jal 1-2 1	U	1-+-IVIdI-2UA		100%	-02		

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2020 J F M A M J J A S O N D J	2021 F M A M J J A S O N D	2022 J F M A M J J A S O N D	2023 J F M A M J J A S C	2024 D N D J F M A M J J A S O N D
ter of Acceptance				
Commencement of the Works				
			S Original Completion	of the Works (1170 Days)
				Revised Completion of the Work Flanned Comple
Possession of First Stage Portion A				
Possession of First Stage Portion B				
Possession of Area for Access Road				
Possession of Temporary Works Area 1				
Possession of Temporary Works Area 2				
Possession of Temporary Works Area 3				
Possession of Temporary Works in Clea	r Water Bay Country Park			
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ix D - Critical Path			file: MPR202407_c	
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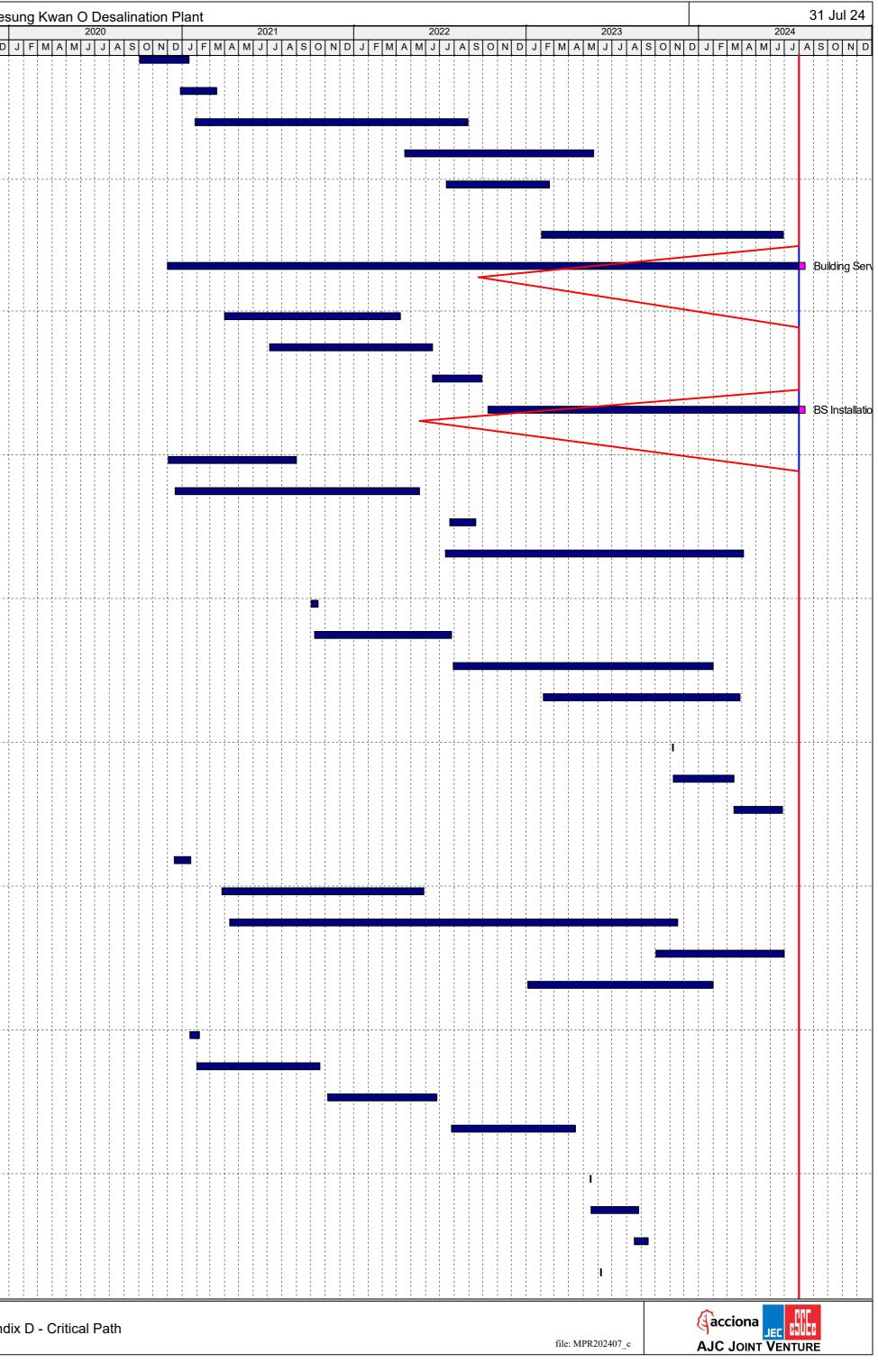
NSD/17	Activity Name	Baseline Duration	Baseline Start	Baseline Finish	Remaining Duration	Actual / Planned Start	Design, Bu Actual / Planned Finish	Actual % Complete	Variance Finish Date	age 1 o Total Float
32kV Subst S0001460	tation Excavation and Formation Works for 132kV Substation	15	16-Mar-20	30-Mar-20	0	19-Feb-20 A	23-Apr-20 A	100%	-24	
ES0001470	Construction of 132kV Substation	233	31-Mar-20	18-Nov-20	0	27-Apr-20 A	30-Dec-20 A	100%	-42	
S0001480	Architectural Finishes for 132kV Substation	126	11-Sep-20	14-Jan-21	0	23-Nov-20 A	22-Mar-21 A	100%	-67	
S0002240	M&E Installation of 132kV Substation	93	20-Nov-20	20-Feb-21	0	01-Dec-20 A	22-Mar-21 A	100%	-30	
ombine Sh	aft									
ES0001060	Construction of Combine Shaft	257	27-Mar-20	08-Dec-20	0	02-May-20 A	30-Jun-21 A	100%	-204	
S0002120	M&E Installation at Combine Shaft	160	03-Jan-22	11-Jun-22	0	11-Oct-22 A	06-May-23 A	100%	-328	
take	DN2500 Ding, logking for Inteks Dingling	162	00 Dec 20	20 May 21	0	02.101.21.4	20 Mar 22 A	100%	212	
S0001070	DN2500 Pipe Jacking for Intake Pipeline	163	09-Dec-20	20-May-21	0	02-Jul-21 A	28-Mar-22 A	100%	-312	
S0001080	Receiving Pit and Marine Intake Structure	416	11-Nov-20	31-Dec-21	0	22-Mar-21 A	30-Dec-22 A	100%	-364	
S0001110	Construction of Intake Land Structure (Combined Shaft)	193	21-May-21	29-Nov-21	0	17-Feb-22 A	10-Oct-22 A	100%	-315	
S0001120	Architectural Finishes for Intake Land Structure	32	30-Nov-21	31-Dec-21	0	24-Oct-22 A	08-Dec-22 A	100%	-342	
utFall S0001090	DN1650 Pipe Jacking for Outfall Pipeline	140	29-Dec-20	17-May-21	0	01-Sep-21 A	24-Mar-22 A	100%	-311	
S0001100	Receiving Pit, Outfall and Diffuser Pipeline	343	18-Dec-20	25-Nov-21	0	08-Apr-21 A	25-Apr-23 A	100%	-516	
ctiDAFF										
S0001140	Excavation for ActiDAFF	97	02-May-20	06-Aug-20	0	22-Apr-20 A	15-Aug-20 A	100%	-9	
S0001150	Construction of ActiDAFF Structure	393	11-Sep-20	08-Oct-21	0	10-Aug-20 A	03-Aug-22 A	100%	-299	
S0001160	Architectural Finishes for ActiDAFF	183	07-Jul-21	05-Jan-22	0	28-Apr-22 A	10-Oct-22 A	100%	-278	
S0002130	M&E Installation at ActiDAFF	257	28-Sep-21	11-Jun-22	0	22-Jan-22 A	20-May-24 A	100%	-708	
ES0002140	M&E Installation of Filter Water Tank and Pumping Station	137	29-Nov-21	14-Apr-22	0	01-Jul-22 A	24-Aug-23 A	100%	-496	
everse Osr	nosis Building									
ES0001170	Excavation at RO Building	270	24-Jun-20	20-Mar-21	0	18-Jun-20 A	10-Oct-20 A	100%	161	
ES0001180	Construction of RO Building	321	16-Nov-20	02-Oct-21	0	25-Aug-20 A	11-Dec-21 A	100%	-70	
ES0001190	Architectural Finishes for RO Building	106	09-Aug-21	22-Nov-21	0	20-Sep-21 A	21-Oct-22 A	100%	-333	
ES0002150	M&E Installation of RO Building	315	23-Nov-21	03-Oct-22	0	24-Nov-21 A	05-Dec-23 A	100%	-428	
roduct Wat	er Storage Tank									
ES0001240	Excavation and Soil Nail System for Product Water Storage Tank	106	10-Aug-20	23-Nov-20	0	24-Jun-20 A	01-Dec-20 A	100%	-8	
S0001250	Construction of Product Water Storage Tank	276	24-Nov-20	26-Aug-21	0	21-Oct-20 A	18-Dec-21 A	100%	-114	
ES0001260	Architectural Finishes for Product Water Storage Tank	70	27-Aug-21	04-Nov-21	0	16-May-22 A	07-Jun-22A	100%	-215	
ES0002210	M&E Installation of Product Water Tank	78	12-Jan-22	30-Mar-22	0	31-Jul-21 A	04-Apr-24 A	100%	-736	
	er Pumping Station									
S0001270	Excavation for Product Water Pump Station	47	22-Oct-20	07-Dec-20	0	08-Mar-21 A	07-Apr-21 A	100%	-121	
S0001280	Construction of Product Water Pump Station	270	22-Jan-21	18-Oct-21	0	17-Apr-21 A	18-Dec-21 A	100%	-61	
ES0001290	Architectural Finishes for Product Water Pumping Station	106	25-Sep-21	08-Jan-22	0	10-Feb-22 A	16-Jul-22 A	100%	-189	
ES0002215	M&E Installation of Product Water Pump Station	78	12-Jan-22	30-Mar-22	0	20-Jun-22 A	14-Dec-23 A	100%	-624	
<mark>hemical Bu</mark> S0001300	uilding Excavation for Chemical Building	42	12-Aug-20	22-Sep-20	0	17-Jun-21 A	17-Jul-21 A	100%	-298	
ES0001310	Construction of Chemical Building	255	23-Sep-20	04-Jun-21	0	17-Jul-21 A	09-Jun-22A	100%	-370	
ES0001310	Architectural Finishes for Chemical Building		·				30-Nov-22 A			
		73	05-Jun-21	16-Aug-21	0	09-Jun-22 A		100%		
ES0002220	M&E Installation of Chemical Building	264	02-Sep-21	23-May-22	0	15-Aug-22 A	10-Aug-23 A	100%	-443	
	on Building					-	1			

Target Bar

Critical Bar



D	Activity Name	Baseline Duration	Baseline Start	Baseline Finish	Remaining Duration	Actual / Planned Start	Actual / Planned Finish	Actual % Complete	Variance Finish Date	Total Float
S0001330	Piling Works for Administration Building	110	19-Oct-20	05-Feb-21	0	03-Oct-20 A	16-Jan-21 A	100%	20	Fioal
S0001340		31	06-Feb-21	08-Mar-21	0	28-Dec-20 A	15-Mar-21 A	100%	-7	
	Excavation for Administration Building				0					
S0001350	Construction of Administration Building	339	09-Mar-21	10-Feb-22	0	28-Jan-21 A	29-Aug-22 A	100%	-200	
S0001360	Architectural Finishes for Administration Building	204	26-Aug-21	17-Mar-22	0	19-Apr-22 A	22-May-23 A	100%	-431	
S0002230	M&E Installation of Admin Building	184	16-Nov-21	18-May-22	0	15-Jul-22 A	18-Feb-23A	100%	-276	
uilding Se	rvices & Lift Installation									
S0002270	Lift Installation	147	18-Mar-22	11-Aug-22	0	02-Feb-23 A	28-Jun-24 A	100%	-686	
S0002280	Building Services Installation	676	27-Nov-20	03-Oct-22	12	01-Dec-20 A	12-Aug-24	85%	-679	-194
<mark>SCG Build</mark> S0001400		05	11 Dec 00	04 Jan 04	0	04. 0 == 04.0	00.477.00.4	400%	400	
	Excavation for On-site Chlorine Generation Building	25	11-Dec-20	04-Jan-21	0	01-Apr-21 A	09-Apr-22 A	100%	-460	
S0001410	Construction of On-site Chlorine Generation Building	291	05-Jan-21	22-Oct-21	0	05-Jul-21 A	15-Jun-22 A	100%	-236	
S0001420	Architectural Finishes for On-site Chlorine Generation Building	59	23-Oct-21	20-Dec-21	0	16-Jun-22 A	28-Sep-22 A	100%	-282	
S0002200	BS Installation of On-site Chlorine Generation Building (DG inspection)	162	21-Dec-21	31-May-22	12	11-Oct-22 A	12-Aug-24	90%	-804	-194
<mark>ost Treatm</mark> S0001210	ent Building Excavation and ELS for Post Treatment Building	126	19-Dec-20	23-Apr-21	0	03-Dec-20 A	01-Sep-21 A	100%	-131	
S0001220	Construction of Post Treatment Building	209	14-Apr-21	08-Nov-21	0	17-Dec-20 A	19-May-22 A	100%	-192	
S0001230	Architectural Finishes for Post Treatment Building	59	11-Oct-21	08-Dec-21	0	22-Jul-22 A	16-Sep-22 A	100%	-282	
S0002180	M&E Installation of Post Treatment Building	199	09-Dec-21	25-Jun-22	0	14-Jul-22 A	04-Apr-24 A	100%	-649	
<mark>udge Thic</mark> S0001680	kener Excavation for Sludge Thickener	73	19-Apr-21	30-Jun-21	0	02-Oct-21 A	16-Oct-21 A	100%	-108	
S0001690	Construction of Sludge Thickener	121	02-Jul-21	30-Oct-21	0	02-00t-21A	26-Jul-22 A	100%	-269	
S0001700	Architectural Finishes for Sludge Thickener	44	01-Nov-21	14-Dec-21	0	29-Jul-22 A	31-Jan-24 A	100%	-778	
S0002190	M&E Installation of Sludge Thickener	141	15-Dec-21	04-May-22	0	06-Feb-23 A	28-Mar-24 A	100%	-693	
orkshop S0001560	Excavation for Workshop	7	21-May-21	27-May-21	0	06-Nov-23 A	07-Nov-23 A	100%	-894	
S0001570	Construction of Workshop	179	28-May-21	22-Nov-21	0	08-Nov-23 A	15-Mar-24 A	100%	-844	
S0001580	Architectural Finishes for Workshop	81	17-Nov-21	05-Feb-22	0	16-Mar-24 A	26-Jun-24 A	100%	-872	
	· · · · · · · · · · · · · · · · · · ·		17-1100-21	00-160-22	0		20-3411-247	100 /0	-072	
spection (S0001590	Piling for Inspection Corridor (Elevated Walkway)	60	09-Jan-21	09-Mar-21	0	15-Dec-20 A	19-Jan-21 A	100%	49	
S0001600	Excavation for Inspection Corridor	121	14-Apr-21	12-Aug-21	0	26-Mar-21 A	28-May-22 A	100%	-289	
S0001610	Construction of Inspection Corridor	299	06-May-21	28-Feb-22	0	12-Apr-21 A	16-Nov-23 A	100%	-626	
S0001620	Architectural Finishes for Inspection Corridor	99	08-Feb-22	17-May-22	0	03-Oct-23 A	29-Jun-24 A	100%	-774	
			00-1 60-22	17-IVIAy-22					-//4	
S0001625	Building Services for Inspection Corridor	0			0	03-Jan-23 A	01-Feb-24 A	100%		
ain Electri S0001430	cal and Central Chiller Plant Building Excavation for Main Electrical and Central Chiller Plant Building	20	11-Jan-21	30-Jan-21	0	18-Jan-21 A	06-Feb-21 A	100%	-7	
S0001440	Construction of Main Electrical and Central Chiller Plant Building	227	01-Feb-21	15-Sep-21	0	01-Feb-21 A	20-Oct-21 A	100%	-35	
S0001450	Architectural Finishes for Main Electrical and Central Chiller Plant Building	99	20-Jul-21	26-Oct-21	0	06-Nov-21 A	25-Jun-22 A	100%	-242	
S0002260	M&E Installation for Main Electrical and Central Chiller Plant Building	152		25-Jun-22		27-Jul-22 A	14-Apr-23 A	100%	-293	
		152	25-Jan-22	25-Jun-22	0	27-JUI-22 A	14-Api-23 A	100%	-295	
uard Hous S0001490	Excavation for Guard House at Main Gate	7	15-Sep-21	21-Sep-21	0	16-May-23 A	17-May-23 A	100%	-603	
S0001500	Construction of Guard House at Main Gate	149	23-Sep-21	18-Feb-22	0	18-May-23 A	26-Aug-23 A	100%	-554	
S0001510	Architectural Finishes for Guard House at Main Gate	76	19-Feb-22	05-May-22	0	18-Aug-23 A	15-Sep-23 A	100%	-498	
S0001520	Excavation for Guard House near Pier	8	21-May-21	28-May-21	0	07-Jun-23 A	09-Jun-23 A	100%	-742	
.00001020		Ö	∠ 1-1viay-21	20-11/1dy-21	U	UT-JUII-23A	05-JULI-23A	100%	-142	



VSD/17	Activity Name	Baseline Duration	Baseline Start	Baseline Finish	Remaining Duration	Actual / Planned Start	Design, Bu Actual / Planned Finish	Actual % Complete	Variance Finish Date	Tota Floa
S0001530	Construction of Guard House near Pier	147	29-May-21	22-Oct-21	0	10-Jun-23 A	10-Oct-23 A	100%	-718	FIUE
S0001540	Architectural Finishes for Guard House near Pier	74	23-Oct-21	04-Jan-22	0	05-Oct-23A	23-Mar-24 A	100%	-809	
		14	23-00-21	04-Jan-22	U	05-00-23A	23-1VId1-24 A	100 78	-009	
<mark>02 Tanks /</mark> S0001370	Areas Filling to Formation for CO2 Tanks Area	29	22-Jun-21	20-Jul-21	0	14-Dec-21 A	17-Dec-21 A	100%	-150	
S0001380	Construction of CO2 Tanks Area	116	21-Jul-21	13-Nov-21	0	21-Dec-21 A	10-Mar-22 A	100%	-117	
S0002170	M&E Installation of CO2 Tanks Area	84	27-Jan-22	20-Apr-22	0	11-Mar-22 A	03-Oct-23 A	100%	-531	
				20740122	Ŭ		00 000 2077	100 /0		
iesel Emer S0002250	gency Generator M&E Diesel Emergency Generator	57	25-Feb-22	22-Apr-22	0	18-Jan-23 A	28-Jul-23 A	100%	-462	
witch Roor	m and Transformer Installation									
S0002300	M&E Installation of HV/LV Switchroom and Transformer (Admin)	242	16-Nov-21	15-Jul-22	0	27-Jul-22 A	20-Apr-23 A	100%	-279	
iscellaneo	us									
S0001630	Remaining Architectural Finishes for All Buildings	322	11-Jan-22	28-Nov-22	0	09-Dec-22 A	29-Jun-24 A	100%	-579	
S0001640	External Process and Non Process Pipe	655	18-Dec-20	03-Oct-22	0	27-May-21 A	23-Nov-23 A	100%	-416	
S0001650	Drainage and Cable Duct	518	04-Jun-21	03-Nov-22	0	25-Apr-22 A	18-Jul-23 A	100%	-257	
S0001660	Slope Mitigation Works	684	23-Nov-20	07-Oct-22	76	28-Sep-21 A	15-Oct-24	50%	-739	-25
S0001670	Landscaping Works	469	28-Oct-21	08-Feb-23	0	01-Mar-23 A	18-May-24 A	100%	-465	
S0002290	M&E PV Panels	215	23-Nov-21	25-Jun-22	0	05-Jan-23 A	29-Jul-24 A	100%	-764	
S0002310	M&E Chiller & Irrigation System Installation	298	27-Oct-21	20-Aug-22	0	25-Aug-23 A	30-May-24 A	100%	-648	
							-			
S0002350	M&E Installation of Surge Vessel	70	24-Feb-22	04-May-22	0	15-Sep-23 A	30-Oct-23 A	100%	-544	
S0002390	M&E Installation of Thickened Sludge Holding Tank	42	09-Dec-21	19-Jan-22	0	27-Mar-23 A	31-Jan-24 A	100%	-742	
<mark>atutory Su</mark> S0002330	bmission & Inspection Statutory Submission & Inspection	1148	11-Jan-20	03-Mar-23	2	03-Dec-19A	02-Aug-24	100%	-518	-18
		1140	11-0a11-20	00-iviai-20	2	00-000-19A	<u>ve nug-24</u>	10070	-010	- 10
sting and S0002400	Commissioning M&E Precomissioning	229	12-Jun-22	26-Jan-23	0	22-Apr-23 A	29-Mar-24 A	100%	-428	
S0002410	M&E Commissioning	213	04-Jul-22	01-Feb-23	0	02-Jun-23 A	30-Jul-24 A	100%	-544	
S0002420	M&E Performance Test	40	02-Feb-23	13-Mar-23	0	28-Nov-23 A	26-Apr-24 A	100%	-409	
		-+0	02100-20		v	201101-207		100 /0	700	
	t of Major Plant & Equipment Schedule gs and Valves									
ressure Relief	The second s	0		08-Sep-21	0		02-Oct-20 A	100%	341	
); Receipt of offers - Pressure relief valves	30	09-Sep-21	08-Oct-21	0	03-Oct-20 A	27-Oct-20 A	100%	346	
): Technical Validation - Pressure relief valves	30	09-Oct-21	07-Nov-21	0	28-Oct-20 A	05-Mar-21 A	100%	248	
P-PV-A51IK-0	Negotiation and Award / Client Approval - Pressure relief valves	60	08-Nov-21	06-Jan-22	0	06-Mar-21 A	19-Nov-21 A	100%	49	
P-PV-A51IK-0	0 Manufacture and FAT - Pressure relief valves	187	07-Jan-22	12-Jul-22	0	20-Nov-21 A	22-Jul-22 A	100%	-9	
P-PV-A51IK-(Transport & Customs - Pressure relief valves	50	13-Jul-22	31-Aug-22	0	23-Jul-22 A	31-Jul-22 A	100%	32	
P-PV-A51IK-(0 1st delivery date to site - Pressure relief valves	0		31-Aug-22	0		31-Jul-22 A	100%	32	
strumenta	tion, Control & Automation									
ypass Level In		0		12-Apr-21	0		16-Sep-20 A	100%	208	
	- Receipt of offers - Bypass Level Indicators	30	13-Apr-21	12-May-21	0	17-Sep-20 A	20-Oct-20 A	100%	205	
			· · · · · · · · · · · · · · · · · · ·			-				
	- Technical Validation - Bypass Level Indicators	30	13-May-21	11-Jun-21	0	21-Oct-20 A	25-Nov-20 A	100%	199	
P-IC-A08FK2	- Negotiation and Award / Client Approval - Bypass Level Indicators	60	12-Jun-21	10-Aug-21	0	26-Nov-20 A	30-Jun-21 A	100%	42	
	- Manufacture and FAT - Bypass Level Indicators	90	11-Aug-21	08-Nov-21	0	01-Jul-21 A	22-Jul-22 A	100%	-255	
		1				40.0	00.0.4.00.4	+		
	- Transport & Customs - Bypass Level Indicators	50	09-Nov-21	28-Dec-21	0	18-Sep-22 A	26-Oct-22 A	100%	-301	

sung Kwan O Desalination Plant	2021	2022 2023	31 Jul 24
J F M A M J J A S O N D J F			D J F M A M J J A S O N D
			Statutory Sub
•		elief valves essure relief valves n - Pressure relief valves	
		and Award / Client Approval - Pressure relief valves Manufacture and FAT - Pressure relief valves Transport & Customs - Pressure relief valves	
	 NR Receipt - Bypass Level Indicator Receipt of offers - Bypass Level I Technical Validation - Bypass I Negotiation and Award I 		dicators
dix D - Critical Path		file: MPR202407_c	Gacciona

	Activity Name	Baseline	Bacolino Start	Baseline Finish	Domoinin	g Actual / Planned	Actual / Planned	Actual %	Variance	Total	r Č	2020	on Plant	2021	Ī		2022	Î	2023		20	24
		Duration	Daseline Start	Dascille Tillist	Duration	Start	Finish		Finish Date		JFM	AMJJASO	N D J F M A		SOND	J F M A M				N D J F		
	1st delivery date to site - Bypass Level Indicators	0		28-Dec-21	0		26-Oct-22 A	100%	-301								• 1	st delivery date to s	site - Bypass Lev	el Indicators		
el Transmitter																						
C-A08FK1-	NR Receipt - Level Transmitters	0		12-Apr-21	0		16-Sep-20 A	100%	208			•		NR Receipt	- Level Transı	nitters						
C-A08FK1-	Receipt of offers - Level Transmitters	30	13-Apr-21	12-May-21	0	17-Sep-20 A	20-Oct-20 A	100%	204				=	Receipt of	of offers - Leve	elTransmitters						
C-A08FK1-	Technical Validation - Level Transmitters	30	13-May-21	11-Jun-21	0	21-Oct-20 A	26-Nov-20 A	100%	198					👝 Techr	nical Validation	- Level Transm	itters					
-A08FK1-	Negotiation and Award / Client Approval - Level Transmitters	60	12-Jun-21	10-Aug-21	0	26-Nov-20 A	02-Dec-21 A	100%	-113						N	egotiation and	Award / Client App	oval - Level Trans	mitters			
-A08FK1-	Manufacture and FAT - Level Transmitters	90	11-Aug-21	08-Nov-21	0	03-Dec-21 A	31-Mar-22 A	100%	-142							Man	ufacture and FAT -	Level Transmitters				
C-A08FK1-	Transport & Customs - Level Transmitters	50	09-Nov-21	28-Dec-21	0	02-Apr-22 A	01-Jun-22 A	100%	-154								Transport & Cus	toms - Level Trans	mitters			
C-A08FK1-	1st delivery date to site - Level Transmitters	0		28-Dec-21	0		01-Jun-22 A	100%	-154								1st delivery date	to site - Level Tran	smitters			
truction																						
	ure Construction																					
AFF Structu D200906k	DAF: Remedial Work at Cell No. 1 and 3 after Water Test	0			0	30-Nov-21 A	27-Jun-22 A	100%									DAF: Remedi	al Work at Cell No.	1 and 3 after Wa	iter Test		
	cess & Non Process																					
	mbined Shaft Zone GRP Combined Shaft S - DN500 Tee at +3.214mPD	0			0	01-Apr-23 A	06-Apr-23 A	100%										I GR	P Combined Sh	aft S - DN50	0 Tee at +3.2	.14mP
	tiDAFF Zone GRP West ActiDAFF: (Covid-19) Limited Resources Effect to GRP Works	0			0	08-Feb-22 A	19-Apr-22 A	100%								G	RP West ActiDAFF	(Covid-19) Limite	Resources Fff	ct to GRPV	Vorks	
2401311K	GRE WESTACIDAEE. (COVID-19) LITTILED RESOURCES ENECTIO GRE WORKS	0			U	00-FED-22A	19-Api-22 A	100%								0						
2401349k	GRP South ActiDAFF: DN400 at 5.490mPD at C10/CD~CF	0			0	14-May-22 A	18-Jun-22 A	100%									GRP South Ac	tiDAFF: DN400 at	5.490mPD at C1	0/CD~CF		

Summary Bar
Actual Level of Effort
Target Bar

Appendix D - Critical Path		

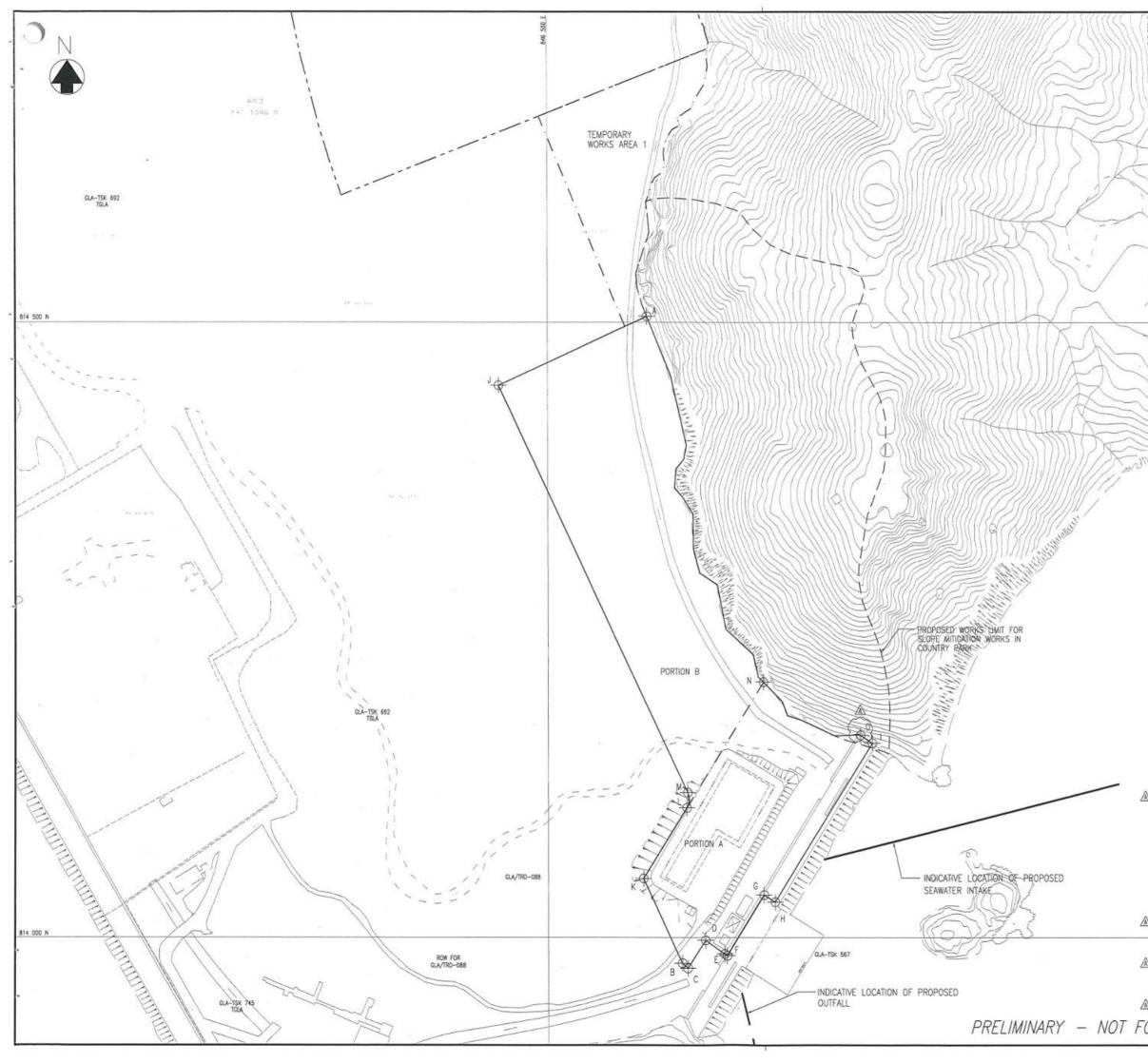






Appendix B

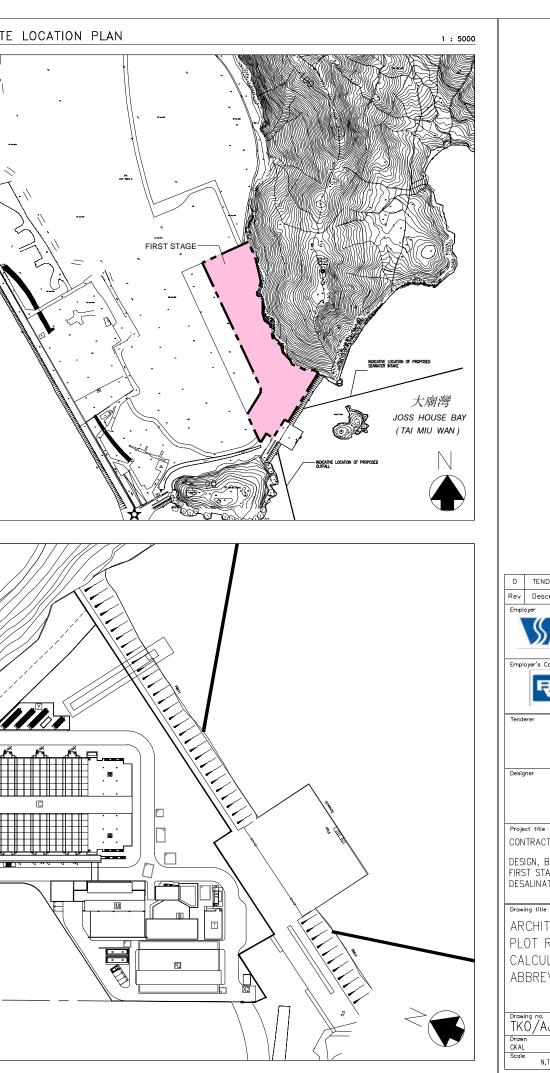
Overview of Desalination Plant in Tseung Kwan O

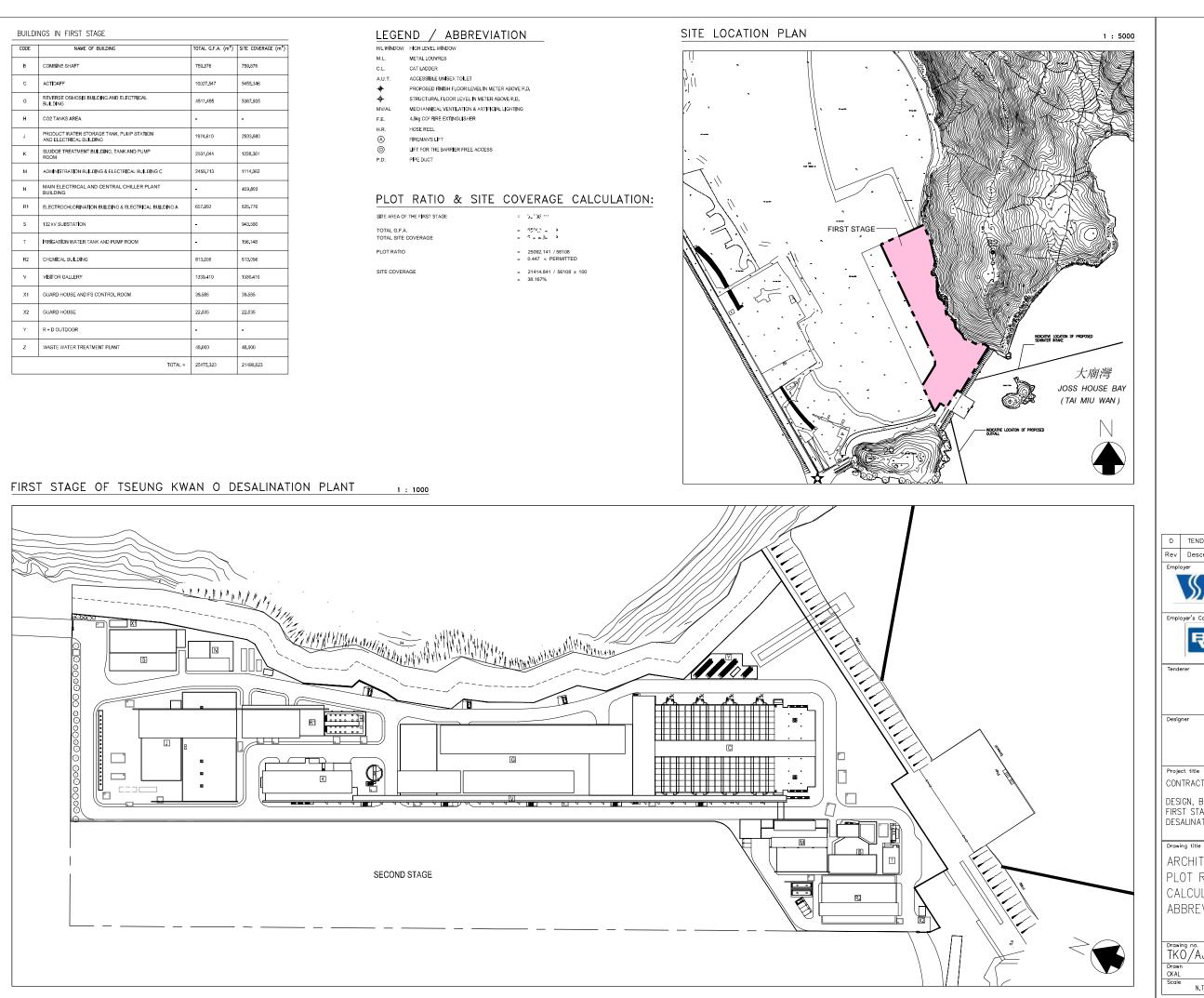


J.	12	115125	/		ght by Block & Veetch Hung Kung Limited	
1	11	1181		LEGEND:		
1	([]]	Wi i	1		BOUNDARY OF SENT LANDFILL EXTENSION	
1	11/1	MC2			BOUNDARY OF WORKS AREA TKO DESALINATION PLANT	FOR
11	(II)	11			SITE PHASING ALLOCATED LAND BOUNDARIE	s
þ	111	HAL.		GLA-TSK 692 TGLA	~ -	A
+ 2		S)	>	NOTE:	TEMPORARY WORKS AREA 1 HANDED OVER AT +6 MPD TOLERANCE OF ±500mm.	
				Agreement No.	CKH SZ	YLC NLC Initial Otecked WLS 02/18
Г	BUILT	FACTING	ИОРТИНИ	A 07/18 Revision Date Designer Initial YLC Date D2/11 Approved Agreement No.	UPDATE COORDINATES Description Checked Drewn CKH SZ 8 02/18 02/18 WSMACC CE 8/2015 (WS)	YLC Initial Checked WLS
F	POINT	EASTING 846581.93	NORTHING 814505.03	A 07/18 Revision Date Designer IniXel YLC Date D2/11 Approved Agreement No.	UPDATE COORDINATES Description d Checked Drewn CKH SZ 8 02/18 02/18	YLC Initial Checked WLS
				A 07/18 Revision Bate Designe Designe IniXel YLC Date D2/11 Approved Approved Agreement No. C Contract No. C	UPDATE COORDINATES Description Checked Drewn CKH S2 8 02/18 02/18 WSD/17	YLC Initial Checked WLS 02/18
	A	846581.93	814505.03	A 07/18 Revision Date Designe Initial YLC Date D2/11 Approved Agreement No. Contract No. Contract Title DESIGI FIRST ST	UPDATE COORDINATES Description d Checked Drewn CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CKH SZ 13/WSD/17 N, BUILD AND OPER, AGE OF TSEUING KW	YLC Initial Checked WLS 02/18
	A B	846581.93 846610.11	814505.03 813979.23	A 07/18 Revision Date Designer Initial YLC Date D2/11 Approved Agreement No. Contract No. Contract Title DESIG(FIRST ST D	UPDATE COORDINATES Description Checked Drewn CKH S2 8 02/18 02/18 WSD/17	YLC Initial Checked WLS 02/18
	A B C	846581.93 846610.11 846614.73	814505.03 813979.23 813975.12	A 07/18 Revision Date Designe Initial YLC Date D2/11 Approved Agreement No. Contract No. Contract Title DESIGI FIRST ST	UPDATE COORDINATES Description d Checked Drewn CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CKH SZ 13/WSD/17 N, BUILD AND OPER, AGE OF TSEUING KW	YLC Initial Checked WLS 02/18
	A B C D	846581.93 846610.11 846614.73 846629.09	814505.03 813979.23 813975.12 813997.84	A 07/18 Revision Date Designer Initial YLC Date Device D2/11 Approved Agreement No. Contract No. Contract Title DESIGI FIRST ST D Drowing Title	UPDATE COORDINATES Description CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CE 8/2015 (WS) 13/WSD/17 N, BUILD AND OPER AGE OF TSEUNG KW ESALINATION PLANT	YLC Initial Ohecked WLS 02/18
	A B C D E S	846581.93 846610.11 846614.73 846629.09 846644.75	814505.03 813979.23 813975.12 813997.84 813986.74	A 07/18 Revision Date Designer Initial YLC Date Device D2/11 Approved Agreement No. Contract No. Contract Title DESIGI FIRST ST D Drowing Title	UPDATE COORDINATES Description d Checked Drewn CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CKH SZ 13/WSD/17 N, BUILD AND OPER, AGE OF TSEUING KW	YLC Initial Ohecked WLS 02/18
	A B C D E F	846581.93 846610.11 846614.73 846629.09 846644.75 846646.80	814505.03 813979.23 813975.12 813997.84 813986.74 813985.28	A 07/18 Revision Date Designer Initial YLC Date Device D2/11 Approved Agreement No. Contract No. Contract Title DESIGI FIRST ST D Drowing Title	UPDATE COORDINATES Description CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CE 8/2015 (WS) 13/WSD/17 N, BUILD AND OPER AGE OF TSEUNG KW ESALINATION PLANT	YLC Initial Ohecked WLS 02/18
	A B C D F G	846581.93 846610.11 846614.73 846629.09 846644.75 846644.75 846646.80 846677.24	814505.03 813979.23 813975.12 813997.84 813986.74 813986.74 813985.28 814034.67	A 07/18 Revision Date Designer Initial YLC Date Device D2/11 Approved Agreement No. Contract No. Contract Title DESIGI FIRST ST D Drowing Title	UPDATE COORDINATES Description CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CE 8/2015 (WS) 13/WSD/17 N, BUILD AND OPER AGE OF TSEUNG KW ESALINATION PLANT	ATE
	A B C D E F G H	846581.93 846610.11 846614.73 846629.09 846644.75 846646.80 846677.24 846685.56	814505.03 813979.23 813975.12 813997.84 813986.74 813986.74 813985.28 814034.67 814028.89	A 07/18 Revision Date Designe Initial YLC Date Date Approved Agreement No. Contract Title DESIGI FIRST ST D Drowing Title SITE H Drawing No.	UPDATE COORDINATES Description CKH SZ 8 02/18 02/18 CKH SZ 8 02/18 02/18 CE 8/2015 (WS) 13/WSD/17 N, BUILD AND OPER AGE OF TSEUNG KW ESALINATION PLANT	ATE ATE AATE AAS
	A B C D E F G H I	846581.93 846610.11 846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 846766.21 846459.65	814505.03 813979.23 813975.12 813997.84 813985.28 813985.28 814034.67 814028.89 814158.11	A 07/18 Revision Date Designe Initial YLC Date Date Approved Agreement No. Contract Title DESIGI FIRST ST D Drowing Title SITE H Drawing No.	UPDATE COORDINATES Description CKH SZ 8 02/18 02/18 CKH SZ 8 02/17 N, BUILD AND OPER AGE OF TSEUNG KW ESALINATION PLANT HANDOVER WORKS ARE	ATE ATE AN O
	A B C D E F G H I J	846581.93 846610.11 846614.73 846629.09 846644.75 846644.75 846645.80 846677.24 846688.56 846766.21	814505.03 813979.23 813975.12 813997.84 813985.28 814034.67 814028.89 814158.11 814448.83	A 07/18 Revision Date Designe Initial VLC Date Dote D2/11 Approved Agreement No. Contract Title DESIGI FIRST ST D Drowing Title SITE H Drawing No. 190495/	UPDATE COORDINATES Description CKH S2 CKH S2 CKH S2 CKH S2 CE 8/2015 (WS) 13/WSD/17 N, BUILD AND OPER AGE OF TSEUNG KW ESALINATION PLANT HANDOVER WORKS ARE CK/TEND/10/0003 AI 1 : 1500 A3 1 : 3000	ATE ATE AAS Revision B
	A B C D E E F G H I J	846581.93 846610.11 846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 8466766.21 846659.65 846578.45	814505.03 813979.23 813975.12 813997.84 813985.28 814034.67 814028.89 814156.11 8144048.83 814046.11 814405.63	A 07/18 Revision Date Designe Initial VLC Date Dote D2/11 Approved Agreement No. Contract Title DESIGI FIRST ST D Drowing Title SITE H Drawing No. 190495/	UPDATE COORDINATES Description CREATED Description CREATED DESCRI	ATE (AN 0 EAS Revision B
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CODE	NAME OF BUILDING	TOTAL G.F.A. (m ²)	SITE COVERAGE (m ²)
в	COMBINE SHAFT	759.876	759.876
с	ACTIDAFF	10027.547	5455.346
G	REVERSE OSMOSIS BUILDING AND ELECTRICAL BUILDING	4511.455	5367.935
н	CO2 TANKS AREA	-	-
J	PRODUCT WATER STORAGE TANK, PUMP STATION AND ELECTRICAL BUILDING	1974.610	2933.980
к	SLUDGE TREATMENT BUILDING, TANK AND PUMP ROOM	2531.044	1228.361
М	ADMINIŞTRATION BUİLDING & ELECTRICAL BUİLDING C	2459.713	1114_062
N	MAIN ELECTRICAL AND CENTRAL CHILLER PLANT BUILDING	-	459.893
R1	ELECTROCHLORINATION BUILDING & ELECTRICAL BUILDING A	657.992	825.776
S	132 KV SUBSTATION	-	943.560
Т	IRRIGATION WATER TANK AND PUMP ROOM	-	156.148
R2	CHEMICAL BUILDING	813.056	813.056
v	VISITOR GALLERY	1330.410	1330.410
X1	GUARD HOUSE AND FS CONTROL ROOM	39.585	39.585
X2	GUARD HOUSE	22.035	22.035
Y	R + D OUTDOOR	-	-
z	WASTE WATER TREATMENT PLANT	48.000	48.000
	TOTAL =	25175.323	21498.023

SITE AREA OF THE FIRST STAGE	= 1/2 ° (X) · · · ·
TOTAL G.F.A. TOTAL SITE COVERAGE	= 2 - 7 5 e
PLOT RATIO	= 25092.141 / 56108 = 0.447 < PERMITTED
SITE COVERAGE	= 21414.841 / 56108 x 100 - 38 167%





0 TENDER SUBMISSION CAD JAN 19 Rev Description By Date Employer Imployer Imployer Imployer Imployer Imployer Imployer Imployer Imployer's Consultant Imployer's Consultant Imployer's Consultant Imployer's Consultant Imployer's Consultant Imployee Designer Imployee Imployee Imployee Project title CONTRACT NO. 13/WSD/17 Imployee Imployee Designer Imployee Imployee Imployee Imployee Drawing title ARCHITECTURAL - Imployee Imployee Imployee Imployee											
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Scale Status	TKO/AJC/W/A000/AR/001 0 Drawn Date Checked Approved										
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Appendix C

Summary of Implementation Status of Environmental Mitigation





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	-	ement Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Implementation Agent	D	C	0	status	Guidelines
Air Quality						I		
S4.8.1	Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings.	Land site/ During Construction	Contractor(s)		~		Implemented	Air Pollution Control (Construction Dust)
S4.8.1	Impervious sheet will be provided for skip hoist for material transport.	Land site/ During Construction, particularly dry season	Contractor(s)		~		NA	-
S4.8.1	The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.	Land site/ During Construction	Contractor(s)		•		Implemented after observation	-
S4.8.1	All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.	Land site/ During Construction	Contractor(s)		•		Implemented	-
S4.8.1	Dropping heights for excavated materials should be controlled to a practical height to minimize the fugitive dust arising from unloading.	Land site/ During Construction	Contractor(s)		✓ ✓		Implemented	-
S4.8.1	During transportation by truck, materials should not be loaded to a level higher than the side and tail boards and should be dampened or covered before transport.	Land site/ During Construction	Contractor(s)		•		Implemented	-
S4.8.1	Wheel washing device should be provided at the exits of the work sites. Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty material from its body and wheels as far as practicable.	Land site/ During Construction	Contractor(s)		•		Implemented	-
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		~		Implemented	-
S4.8.1	Hoarding of not less than 2.4m high from ground level will be provided along the length of the Project Site boundary.	Land site/ During construction	Contractor(s)	~	•		N/A	-
S4.8.1	Haul roads will be kept clear of dusty materials and will be sprayed with water so as to maintain the entire road surface wet at all times.	Land site/ During construction	Contractor(s)		√		Implemented	-



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EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Anna Anna Anna Anna Anna Anna Anna Anna		ement Stage	tation	I Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Implementation Agent	D	C	0	status	Guidelines
S4.8.1	Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time.	Land site/ During construction	Contractor(s)		~		Implemented	-
S4.8.1	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Land site/ During construction	Contractor(s)		~		Implemented	-
S4.8.1	All exposed areas will be kept wet always to minimise dust emission.	Land site/ During construction	Contractor(s)		~		Implemented	-
S4.8.1	Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Land site/ During construction/ During Operation	Contractor(s)		~	•	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites
S4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		~		Implemented	-
S4.8.1	Concrete batching plant will be required on site. control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. The control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented.	Land site/ During construction	Contractor(s)		•		N/A	-
S4.8.1	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Land site/ During construction	Contractor(s)		~		Implemented	-
S4.10	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period.	Land site/ During construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		•		Implemented	-





			* *				
EIA	Recommended Environmental Protection Measures/	Objectives of the	Implementation		ementati	-	Relevant Legislation &
Reference	Mitigation Measures	recommended measures &	Agent		Stage	status	Guidelines
Natas		main concerns to address		D	C	0	
Noise S5.7	Only well-maintained plant will be operated on-site and plant will	All area/ During construction	Contro stor(s)	-		II	A Drastical Cuida for the
55.7	be serviced regularly during the construction phase.	All area/ During construction	Contractor(s)		•	Implemented	A Practical Guide for the Reduction of Noise from
	be serviced regularly during the construction phase.						Construction Works
S5.7	Silencers or mufflers on construction equipment will be utilised	Noise control/ During	Contractor(s)		✓	N/A	A Practical Guide for the
	and will be properly maintained during the construction phase.	construction					Reduction of Noise from
							Construction Works
S5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During	Contractor(s)		✓	N/A	A Practical Guide for the
		construction					Reduction of Noise from
					✓		Construction Works
S5.7	Machines and plant (such as trucks) that may be in intermittent use	Noise control/ During	Contractor(s)		v	Implemented	A Practical Guide for the
	will be shut down between work periods or will be throttled down to a minimum.	construction					Reduction of Noise from Construction Works
				_			
S5.7	Plants known to emit noise strongly in one direction will, wherever	Noise control/ During	Contractor(s)		 ✓ 	N/A	A Practical Guide for the
	possible, be orientated so that the noise is directed away from the	construction					Reduction of Noise from
	nearby NSRs.						Construction Works
S5.7	Material stockpiles and other structures will be effectively utilised,	Noise control/ During	Contractor(s)		 ✓ 	N/A	A Practical Guide for the
	wherever practicable, in screening noise from on-site construction	construction					Reduction of Noise from
	activities.						Construction Works
S5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During	Contractor(s)		✓	Implemented	A Practical Guide for the
		construction					Reduction of Noise from
							Construction Works
S5.7	Movable noise barriers of 3m in height with skid footing should be	Noise control/ During	Contractor(s)		✓	N/A	A Practical Guide for the
	used and located within a few metres of stationary plant and	construction					Reduction of Noise from
	mobile plant such that the line of sight to the NSR is blocked by the						Construction Works
	barriers. The length of the barrier should be at least five times						
	greater than its height. The noise barrier material should have a						
	superficial surface density of at least 7 kg m-2 and have no o or gappeningss.						
S5.7	The noise insulating sheet should be deployed such that there	Noise control/ During	Contractor(s)		✓	N/A	A Practical Guide for the
55.7	would be no opening or gaps on the joints.	construction	contractor (3)			11/13	Reduction of Noise from
							Construction Works
S5.7	Construction activities (e.g. excavation/shoring, reinstatement	Noise control/ During	Contractor(s)	✓	✓	Implemented	A Practical Guide for the
	(asphalt), and pipe jacking) will be planned and carried out in	construction				1	Reduction of Noise from
	sequence, such that items of PME proposed for these activities will						Construction Works
	not be operated simultaneously.						
S5.7	PMEs will not be used at the works areas near educational	Noise control / During	Contractor(s)		✓	N/A	A Practical Guide for the
33.7	institutions with residual impact (ie the "influence area" within a	construction	contractor(s)			IN/A	Reduction of Noise from
	I montations with residual impact lie die minuence area within a	construction			1		Actuaction of NOISE HOIII





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	-	ementa Stage	ation	Implementation status	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidennes
	radius of 40m) during school hours in order to reduce impact to the educational institutions.							Construction Works
\$5.7	Noise enclosures or acoustic sheds would be used to cover stationary PME such as generators. Portable/Movable noise enclosure made of material with superficial surface density of at least 7 kg m-2 may be used for screening the noise from operation of the saw/groover, concrete.	Noise control/ Pre- construction/ During construction	Contractor(s)	-	~		N/A	-
S5.9	Sawcutting pavement, breaking up of pavement, excavation /shoring, pipe laying, backfilling, reinstatement (concrete) and pipe jacking shall be scheduled outside the examination period.	Noise control/ Pre- construction/ During construction	Contractor(s)	•	√		N/A	-
S5.9	In view the duration of noise exceedance at Creative Secondary School, PLK Laws Foundation College, TKO Kei Tak Primary School and School of Continuing and Professional Studies-CUHK is limited to 8 weeks, the construction work in the influence areas near the four schools shall be scheduled during long school holidays (eg summer holiday, Easter holiday or Christmas holiday, etc) as far as practicable. Scheduling the construction work for the four schools.	Noise control/ Pre- construction/ During construction	Contractor(s)		•		N/A	-
\$5.10	A noise monitoring programme shall be implemented for the construction phase.	Designated monitoring stations as defined in EM&A Manual/During construction phase	Environmental Team		~		N/A	-
\$5.10	The effectiveness of on-site control measures could also be evaluated through the regular site audits.	All facilities/ During construction	Contractor(s)/ ET & Independent Environmental Checker (IEC)		~		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the	Implementation Agent	Imple	mentatio	n Implementation	Relevant Legislation
Reference	Mitigation Measures	recommended measures &			Stage	status	& Guidelines
		main concerns to address		D	C O		
Water Qua				<u>т т</u>			
S6.9	Dredged marine sediment will be disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO).	Marine Dredging/ During construction	Contractor(s)		•	Implemented	Dumping at Sea Ordinance (DASO)
S6.9	Disposal vessels will be fitted with tight bottom seals in order to prevent leakage of material during transport.	Marine Dredging/ During construction	Contractor(s)		✓	Implemented	-
\$6.9	Barges will be filled to a level, which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action.	Marine Dredging/ During construction	Contractor(s)		•	Implemented	-
S6.9	After dredging, any excess materials will be cleaned from decks and exposed fittings before the vessel is moved from the dredging area.	Marine Dredging/ During construction	Contractor(s)		•	Implemented	-
S6.9	All vessels should be well maintained and inspected before use to limit any potential discharges to the marine environment.	Marine Dredging/ During construction	Contractor(s)		✓	Implemented	-
S6.9	All vessels must have a clean ballast system.	Marine Dredging/ During construction	Contractor(s)		✓	Implemented	-
S6.9	No discharge of sewage/grey wastewater should be allowed. Wastewater from potentially contaminated area on working vessels should be minimized and collected. These kinds of wastewater should be brought back to port and discharged at appropriate collection and treatment system.	Marine Dredging/ During construction	Contractor(s)		~	Implemented	-
S6.9	No soil waste is allowed to be disposed overboard.	Marine Dredging/ During construction	Contractor(s)		~	N/A	-
\$6.9	Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Land site & drainage/ During construction	Contractor(s)		×	Implemented	ProPECC PN 1/94 TM Standard under the WPCO
S6.9	Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.	Land site & drainage/ During construction	Contractor(s)		•	Implemented	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Impl	emen Stag	tation e	Implementation status	Relevant Legislation & Guidelines
		main concerns to address		D	С	0		
S6.9	Appropriate surface drainage will be designed and provided where necessary.	Land site & drainage/ During construction	Contractor(s)		~		Implemented	-
S6.9	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94.	Land site & drainage/ During construction	Contractor(s)	*	~		Implemented	ProPECC PN 1/94
S6.9	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.	Land site & drainage/ During construction	Contractor(s)		~		N/A	-
S6.9	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.	Land site & drainage/ During construction	Contractor(s)		~		Implemented	-
S6.9	The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	Land site & drainage/ During construction	Contractor(s)		~		N/A	-
S6.9	Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.	Land site & drainage/ During construction	Contractor(s)		~		Implemented	-
S6.9 and S6.12	The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer.	Sterilization of water mains prior to commissioning	Contractor(s)		•	~	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems
S6.9	The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging.	Sterilization of water mains prior to commissioning	Contractor(s)		~	•	Implemented	Inland and Coastal Waters
S6.9	Site drainage should be well maintained, and good construction practices should be observed to ensure that oil, fuels, solvents, and other chemicals are managed, stored and handled properly and do not enter the nearby water streams.	Land site & drainage/ During construction/ During operation	Contractor(s)		•	•	Implemented	-
S6.12	Regular site inspections will be carried out in order to confirm that regulatory requirements are being met and that contractors are implementing the standard site practice and mitigation measures as proposed to reduce potential impacts to water quality.	During construction	Contractor(s)/ ET & IEC		~		Implemented	-





EIA	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Impl	emer Stag	ntation e		Relevant Legislation & Guidelines
Reference	5	main concerns to address		D	С	0	Status	Guidennes
Waste Mar						1		I
S8.5	Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.	Contract mobilization/ During construction	Contractor(s)		~		Implemented	-
S8.5	Training of site personnel in proper waste management and chemical handling procedures. Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse, and recycling at the beginning of the construction works.	Contract mobilization/ During construction	Contractor(s)		•		Implemented	-
S8.5	Provision of sufficient waste disposal points and regular collection for disposal.	All area/ During construction/ During operation	Contractor(s)		~	~	Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	All area/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	A waste management plan (WMP) as stated in the "ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites" for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation.	All area/ During construction	Contractor(s)		•		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre at Tsing Yi.	All area/ During construction	Contractor(s)		•		Implemented	Chapters 2 & 3 Code of Practice on the Packaging, Labelling & Storage of Chemical Wastes published under the Waste Disposal Ordinance (Cap 354), Section 35
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		~		Implemented	Waste Disposal Ordinance (Cap 354)





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Imple	ement Stage		Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	1 0	D	C	0	Status	Guidelines
S8.5	A recording system for the amount of wastes generated/ recycled and disposal sites. The trip- ticket system will be included as one of the contractual requirements and implemented by the contractor(s).	Land site/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal.	Land site/ During construction/ During operation	Contractor(s)		~		Implemented	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Encourage collection of aluminium cans and wastepaper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce.	Land site/ During construction	Contractor(s)		•		Implemented	ETWB TCW No. 33/2002, Management of Construction and Demolition Material Including Rock
S8.5	Any unused chemicals and those with remaining functional capacity will be recycled as far as possible.	Land site/ During construction	Contractor(s)		~		N/A	-
S8.5	Use of reusable non-timber formwork to reduce the amount of C&D materials.	All areas/ During construction	Contractor(s)		~		Implemented	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Prior to disposal of construction waste, wood, steel, and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill.	All areas/ During construction	Contractor(s)		~		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Proper storage and site practices to reduce the potential for damage or contamination of construction materials.	All areas/ During construction	Contractor(s)		~		Implemented	-
S8.5	Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste.	All areas/ During construction	Contractor(s)		~		Implemented	-
S8.5	A Sediment Quality Report (SQR) for sampling and chemical testing of the sediment will be prepared and submitted to the EPD for approval. The approved detailed sampling and chemical testing will be carried out prior to the commencement of the dredging activities to confirm the sediment disposal method.	Marine works/ During construction	Contractor(s)		•		N/A	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Implementation Stage			Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	implementation rigent	D	C	0	Status	Guidelines
S8.5	The management of dredged/ excavated sediment management requirement from ETWB TC(W) No. 34/2002 will be incorporated in the Specification of the Contract Documents.	Marine works/ During construction	WSD/ Contractor(s)		•		Implemented	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)
\$8.5	The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.	Contract mobilization/ During construction	Contractor(s)		•		Implemented	Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation
S8.5	A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/ landfills, and to control fly-tipping.	Contract mobilization/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
\$8.5	The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan.	All area/ During construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		•		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase.	All area/ During construction	Contractor(s)		•		Implemented	Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005
S8.5	Inert C&D materials (public fill) will be reused within the Project as far as practicable.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling.	All area/ During construction	Contractor(s)		•		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358)





EIA	6	Objectives of the recommended measures &	Implementation Agent		Implementation Stage		Implementation	Relevant Legislation &
Reference		main concerns to address	I State State	D	C	0	Status	Guidelines
S8.5	Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	Land site/ During Construction, particularly dry season	Contractor(s)		~		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R)
S8.5	Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.	All area/ During construction/ During operation	Contractor(s)/ WSD		1	~	Implemented	
S8.5	Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	•	Implemented	
S8.5	A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	~	Implemented	
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	•	Implemented	Waste Disposal
S8.5	Storage areas for chemical waste shall 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.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	(Chemical Waste) (General) Regulation; Code of Practice on the Packaging,
S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	•	Implemented	
S8.5	Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	•	Implemented	
S8.5	General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	•	Implemented after reminder	1
S8.5	Adequate number of waste containers will be provided to avoid over-spillage of waste.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness.





EIA	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent		Implementation Stage		Implementation	Relevant Legislation &
Reference		main concerns to address		D	С	0	Status	Guidelines
S8.5	A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	✓	Implemented	-
S8.5	Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminum can, wastepaper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	-
S8.5	To avoid any odour and litter impact, accurate number of portable toilets will be provided for workers on-site.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	The burning of refuse on construction sites is prohibited by law.	All area/ During construction	Contractor(s)		~		Implemented	Air Pollution Control Ordinance (Cap 311)
S8.7	To facilitate monitoring and control over the contractors' performance on waste management, a waste inspection and audit programme will be implemented throughout the construction phase.	All facilities/ During construction	ET/ IEC		~		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Impl	emer Stag	itation e	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address		D	C	0	Status	Guidelines
Ecology		•						
S9.7	For slope mitigation works within the Clear Water Bay Country Park, to avoid tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels can be adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical. A detailed specification describing the exact locations of the flexible barrier foundation plates, soil nails and rock dowels will be prepared to illustrate how the setback distance from existing trees would be implemented for tree avoidance.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	•	•		Implemented	-
S9.7	Pruning of tree canopies along the alignment of the flexible barriers shall be limited to a minimum.	Slope mitigation works area/ During construction	Contractor(s)		1		Implemented	
S9.7	The alignment of flexible barriers shall be optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable. All individuals of <i>Marsdenia lachnostoma</i> within the slope mitigation areas shall be retained <i>in- situ</i> , by positioning the alignment of flexible barrier at a minimum 1.5m in a radius away from these individuals.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	✓	~		Implemented	-
S9.7 and 9.10	At the detailed design stage prior to the commencement of the slope mitigation works, a vegetation survey shall be carried out at the slope mitigation areas within the Clear Water Bay Country Park to assess the condition and identify the location of each individual of <i>Marsdenia lachnostoma</i> and other flora species of conservation interest that may be directly affected by the construction works.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	×			Implemented	-
\$9.7	Temporary fencing will be installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction. A sign identifying the site shall be attached to the fence and flagging tape shall be attached to the individuals to visualize their locations.	Slope mitigation works area/ During construction	Contractor(s)		~		Implemented	-
S9.7 and S9.10	A specification for fencing and demarcating individuals of <i>Marsdenai lachnostoma</i> (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers will be prepared to protect the species.	Slope mitigation works area/ During construction	Contractor(s)		~		Implemented	-
S9.7	Induction training shall also be provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance.	Slope mitigation works area/ During construction	Contractor(s)		•		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Implementation Stage			Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address		D			Status	
S9.7	The resident site supervisory staff will closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity.	Slope mitigation works area/ During construction	Contractor(s)		~		Implemented	-
S9.7	Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas.	All area/ During construction	Contractor(s)		1		Implemented	-
S9.7	Regularly check the work site boundaries to ensure that they are not breached, and that damage does not occur to surrounding areas.	All area/ During construction	Contractor(s)/ ET		~		Implemented	-
S9.7	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.	All area/ During construction	Contractor(s)		~		Implemented	-
S9.7	Reinstate temporarily affected areas, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting. The tree/shrub species will be chosen with reference to those in the surrounding area.	All area/ During construction	Contractor(s)		•		To be implemented	-
S9.7	Affected habitats within the Clear Water Bay Country Bay shall be reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works.	All area/ During construction	Contractor(s)		•		To be implemented	-



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EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent		emen Stag	itation e	Implementation	Relevant Legislation & Guidelines
Reference	5	main concerns to address		D	C	0	Status	
Landscap			1				ſ	1
S11.10 & 11.11	The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	*	~	•	Implemented	-
S11.10 & 11.11	At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	~	>	*	Implemented	-
S11.10 & 11.11	Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to: - green roofs where practical (i.e. without equipment on the roof); - roadside planting; - aesthetic treatment of all structures; - vertical greening; - screen planting along application site; and - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible, to reduce their visual impact and blend them into the surrounding landscape. (MM3)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	 Image: A set of the	•	Implemented	-
S11.10 & 11.11	All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	~	✓	Implemented	ETWB TCW No. 3/2006 - Tree Preservation.
S11.10 & 11.11	No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	*	-	~	Implemented	DEVB TC(W) No. 10/2013
S11.10 & 11.11	Any slope mitigation works necessary to address natural terrain hazards, will be minimized to minimize any potential environmental impact to the Country Park e.g. soil nailing and rock stabilization will aim to avoid existing trees e.g. should any restoration of vegetation be necessary, the best planting matrix with native species will be established, with the aim of resembling the existing vegetation. (MM6)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	~	V	Implemented	



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EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent		mplementation Stage		Implementation Status	Relevant Legislation & Guidelines
Kelefelice		main concerns to address		D	C	0	Status	Guidennes
S11.10 &	Dredging works for the installation of intake structures and outfall	All area/ Detailed design/	WSD/ Contractor(s)	✓	✓	✓	Implemented	
11.11	diffusers should be minimized to avoid or reduce any potential	During construction/ During						
	environmental impacts to as low as reasonably practicable	operation						
	(ALARP). The intake and outfall structures (e.g. intake openings							
	and diffuser heads) will be prefabricated and transferred to site							
	for installation. (MM7)							
S11.10 &		All area/ Detailed design/	WSD/ Contractor(s)	✓	✓	✓	Implemented	-
11.11	both in terms of number of level and will be hooded and	During construction/ During						
	directional. (MM8) units and lux level and will be hooded and	operation						
	directional. (MM8)	-						





EIA	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the		Impl	emen Stage	tation		Relevant Legislation &
Reference		recommended measures & Implementation Agent main concerns to address	D	С	0	Status	Guidelines	
Landfill G	as Hazard	•		1	1	1		
S12.7	During all works, safety procedures should be implemented to minimize the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater.	All area/ Detailed design/ During construction/operation	Contractor(s)	~		~	Implemented	-
S12.7	During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 meter.	All area/ Detailed design/ During construction/operation	Contractor(s)	•	•	~	Implemented	
S12.7	The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance. Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations.	All area/ Detailed design/ During construction/operation	Contractor(s)	•	~	•	Implemented	
S12.7	Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade.	All area/ Detailed design/ During construction/operation	Contractor(s)	~	•	~	Implemented	
S12.7	All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it.	All area/ Detailed design/ During construction/operation	Contractor(s)	•		-	Implemented	
S12.7	Monitoring for landfill gas should be undertaken in all excavations, manholes, chambers (particularly during pipe jacking) and any confined spaces through the use of an intrinsically safe portable instrument, appropriately calibrated and capable of measuring the concentrations of methane. carbon dioxide and oxygen.	All area/ Detailed design/ During construction/operation	Contractor(s)	•	•	•	Implemented	
S12.7	Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the Safety Officer, or by an appropriately qualified person. All measurements should be recorded and documented.	All area/ Detailed design/ During construction/operation	Contractor(s)	~		~	Implemented	
S12.7	Proceed drilling with adequate care and precautions against the potential hazards which may be encountered.	All area/ Detailed design/ During construction/operation	Contractor(s)	~	~	~	Implemented	



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EIA	Recommended Environmental Protection Measures/	Objectives of the		-	ement Stage	tation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	recommended measures & main concerns to address	Implementation Agent	D	C	0		Guidelines
S12.7	Prior to the commencement of the site works, the drilling contractor should devise a 'method-of- working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, <i>supervisors</i> responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site <i>supervisor</i> and all operatives must be familiar with this statement.	All area/ During construction/operation	Contractor(s)	•	~	~	Implemented	
S12.7	Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the pathway for landfill gas and hence grilled metal covers should be used.	All area/ Detailed design/ During construction/operation	Contractor(s)	•	•	~	N/A	
S12.7	It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months.	All area/ Detailed design/ During construction/operation	Contractor(s)	•	•	~	N/A	
S12.7	The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.	All area/ Detailed design/ During construction/operation	Contractor(s)	•	•	~	Implemented	
S12.7	All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site.	All area/ Detailed design/ During construction/operation	Contractor(s)	•	•	•	Implemented	

Note: D – Design stage C – Construction O – Operation





Appendix D

Event / Action Plan



Table D1Event and Action Plan for Construction Noise Monitoring

Event	Action										
	ET	IEC	R	Contractor							
Action Level	 Carry out investigation to identify the source and cause of the complaint/ exceedance(s) Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC Discuss with the Contractor and IEC for remedial measures required If the complaint is related to the Project, conduc additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor 	measures	 Confirm receipt of Notification of Exceedance in writing Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented 	 Submit noise mitigation proposals, if required, to the IEC and ER Implement noise mitigation proposals. 							
Limit Level	 Carry out investigation to identify the source and cause of the exceedance Notify IEC, ER, Project Proponent, EPD and Contractor Repeat measurements to confirm findings Provide investigation report to IEC, ER, EPD and Contractor he causes of the exceedances If the exceedance is related to the Project, asses: effectiveness by additional monitoring. Report the remedial action implemented and th additional monitoring results to IEC, EPD, ER and Contractor If exceedance stops, cease additional monitoring 	 Supervise the implementation of remedial measures ne d 	writing 2. Require the Contractor to propose remedial measures for the analysed noise problem	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC and ER within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant activity of works as determined by the Project Proponent until the exceedance is abated 							

Notes : ET = Environmental Team, IEC = Independent Environmental Checker; ER = Engineering Representatives



Table D2Event and Action Plan for Water Quality Monitoring

Event	Action					
	ET	IEC	Contractor(s)	ER		
Action Level being exceeded by one sampling day	 Repeat in situ measurement on the next day of exceedance to confirm findings; Check monitoring data, plant, equipment and Contractor(s)'s working methods; Identify source(s) of impact and record in notification of exceedance; Inform IEC, Contractor(s) and ER. 	 Check monitoring data submitted by ET and Contractor(s)'s working methods; Inform EPD. 	 Confirm receipt of notification of exceedance in writing; Check plant and equipment and rectify unacceptable practice 	 Confirm receipt of notification of exceedance in writing. 		
Action Level being exceeded by two or more consecutive sampling days	 Repeat <i>in situ</i> measurement on the next day of exceedance to confirm findings; Check monitoring data, plant, equipment and Contractor(s)'s working methods; Identify source(s) of impact and record in notification of exceedance; Inform IEC, Contractor(s) and ER; Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented 	 Check monitoring data submitted by ET and Contractor(s)'s working methods; Inform EPD; Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Confirm receipt of notification of exceedance in writing; Check plant and equipment and rectify unacceptable practice; Consider changes of working methods; Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; Implement the agreed mitigation measures. 	 Confirm receipt of notification of exceedance in writing; Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. Ensure additional mitigation measures are properl implemented. 		
Limit Level being exceeded by one sampling day	 Repeat <i>in situ</i> measurement on the next day of exceedance to confirm findings; Check monitoring data, plant, equipment and Contractor(s)'s working methods; Identify source(s) of impact and record in notification of exceedance; Inform IEC, Contractor(s) and ER; Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented 	 Check monitoring data submitted by ET and Contractor(s)'s working methods; Inform EPD; Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Confirm receipt of notification of exceedance in writing; Check plant and equipment and rectify unacceptable practice; Critically review the need to change working methods; Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; Implement the agreed mitigation measures. 	 Confirm receipt of notification of exceedance in writing; Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. Ensure additional mitigation measures are properly implemented. Request Contractor(s) to critically review the working methods. 		
Limit Level being exceeded by two or more consecutive sampling days	 Repeat <i>in situ</i> measurement on the next day of exceedance to confirm findings; Check monitoring data, plant, equipment and Contractor(s)'s working methods; Identify source(s) of impact and record in notification of exceedance; Inform IEC, Contractor(s) and ER; Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented 	 Check monitoring data submitted by ET and Contractor(s)'s working methods; Inform EPD; Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Inplement the agreet intragator measures. Confirm receipt of notification of exceedance in writing; Check plant and equipment and rectify unacceptable practice; Critically review the need to change working methods; Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days; Implement the agreed mitigation measures. As directed by ER, slow down or stop all or part of the marine construction works/ production volume of the desalination plant until no exceedance of Limit Level. 	 Confirm receipt of notification of exceedance in writing; Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented. Ensure additional mitigation measures are properly implemented. Request Contractor(s) to critically review the working methods; Consider and instruct, if necessary, the Contractor(s) to slow down or to stop all or part of the marine construction works / production volume of the desalination plant until no exceedance of Limi Level. 		

Notes : ET = Environmental Team, IEC = Independent Environmental Checker; ER = Engineering Representatives The above actions should be taken within 1 working day after the exceedance is identified during operation phase.



Table D3Event and Action Plan for Ecology during Construction Phase

Event				Act	ion			
Event	ET				ntractor(s)	ER		
Non- conformity on one occassion	1. 2. 3. 4.	Identify source Inform IEC and ER Discuss remedial actions with IEC, the ER and the Contractor Monitor/ audit/ review remedial actions until rectification has been completed	1. 2. 3. 4. 5.	Check monitoring/ auditing results Check the Contractor's working method Discuss with the ET and Contractor on possible remedial measures Advise the ER on effectiveness of proposed remedial measures Check the implementation of remedial measures	1. 2. 3. 4.	Take immediate action to avoid further problem Amend working methods if needed Submit proposals for remedial actions to ET, ER and IEC Rectify damage and implement the agreed remedial actions	1. 2. 3.	Notify Contractor Ensure remedial measures are properly implemented Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works in case of serious non-conformity until situation i rectified
Repeated Non- comformity	1. 2. 3. 4. 5.	Identify source Inform IEC, ER, EPD and AFCD Increase monitoring and audit frequency Discuss remedial actions with the IEC, the ER and the Contractor Monitor/ audit/ review remedial actions until rectification has been completed If non-conformity stops, cease additional monitoring/ auditing	1. 2. 3. 4. 5.	Check monitoring/ auditing results Check the Contractor's working method Discuss with the ET and Contractor on possible remedial measures Supervise the implementation of remedial measures Advise the ER on effectiveness of proposed remedial measures and keep EPD and AFCD informed	1. 2. 3. 4.	Take immediate action to avoid further problem Amend working methods if needed Submit proposals for remedial actions to ET, ER and IEC Rectify damage and implement the agreed remedial actions	1. 2. 3.	Notify Contractor Ensure remedial measures are properly implemented Consider and instruct, if necessary, the Contactor to slow down or to stop all or part of the works in the case of serious non-conformity until situation is rectified

Notes : ET = Environmental Team, IEC = Independent Environmental Checker; ER = Engineering Representatives



Table D4Event and Action Plan for Pre-Operation Phase Coral Monitoring

D	Action								
Event	ET Leader	IEC	SOR **	Contractor					
Action Level Exceedance	 Check monitoring data Inform the IEC, SOR and Contractor of the findings; Increase the monitoring to at least once a month to confirm findings; Propose mitigation measures for consideration 	 Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SOR accordingly. 	 Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to be implemented. 	 Inform the SOR and confirm notification of the non- compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SOR; Implement the agreed measures. 					
Limit Level Exceedance	1. Undertake Steps 1-4 as in the Action Level Exceedance. If further exceedance of Limit Level, propose enhancement measures for consideration.	 Discuss monitoring with the ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SOR accordingly. 	 Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make agreement on the measures to be implemented. 	confirm notification of the non-compliance in writing;					

Remark: ** The "SOR" is equivalent to the "ER" as defined in the EM&A Manual of the Project





Appendix E

Landfill Gas Equipment Calibration Certification

poration Ltd. 5/A, Blk1 Kin Ho Ind. Bldg., 20-24 Au Pui Wan St., Fo Tan, Shatin, N.T., HK. Tel: (852) 8109 8368 Fax: (852) 3007 4857 E-mail: sales@ysftool.com www.sokkia.com.hk www.ysf.com.hk Supply. Repair, Rental, Scanning and Calibration Service of Surveying Instruments and Accessories

Certificate No. : CAL240316

CALIBRATION CERTIFICATE OF MULTI GAS DETECTOR

Client	: China State Construction Engineering (Hong Kong) Ltd.
Address	: 29/F., China Overseas Bldg., 139 Hennessy Road, Hong Kong

Unit-Under-Test (UUT) Information

Description	:	Multi gas detector
Manufacturer	į	GMI
Model No.	:	PS500
Serial No.	•	25492809/21

Calibrator Information

Description	: (1) 4 in 1 Standard gases (H ₂ S, LEL, CO, O ₂) (2) Std CO ₂ gas (0.30%)
Serial No.	: (1) C-048-07	(2) C-087-04
Cylinder No.	: (1) 21025003	(2) M123850
Expired date	: (1) 30 Nov., 2024	(2) 12/2025

Received date	:	24 July, 2024
Date of calibration	:	30 July, 2024
Next calibration date	·	29 July, 2025
Calibration location	÷	YSF Calibration Laboratory
Environmental conditions	•	20.3-21.1°C / 55-64%RH
Method used	•	By direct comparison

Calibration Results :

Parameters	Measured value
(1) Methane (50% LEL)	44% LEL
(2) Oxygen (18.1%)	18.1%
(3) Hydrogen Sulphide (25.5ppm)	25ppm
(4) Carbon monoxide (101ppm)	92ppm
(5) Carbon Dioxide (0.30%)	0.22%

Remark:

1. The equipment used in this calibration is traceable to recognized National Standards.

Tested by :	Lam Man Kwong	_ Date : _	30 July, 2024	Certified by :_	So Chi Kuen (Lab Manager)	_Date :	July, 2024
			** End of Ce	ertificate **			

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Page 1 of 1





Appendix F

Landfill Gas Monitoring Data

Contract Title :		Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant							Monitoring Equipment	Last Calibration]	
Contract No	.:	13/WSD/17						254938	GMI-PS500	22/8/2023]	
Manifasina	Marking transh	Dete	Time	Weather Condition		Landfill Gas	Parameters		Physical Parameters	Trench/ Pit Depth	Meas	ured by
Monitoring Location	Working trench/ Pit	Date (dd/mm/yyyy)	(hh:mm)	Sunny/ Fine/ Overcast/ Drizzle/ Rain/ Storm/ Hazy	Methane (%LEL)	Oxygen (%)	Carbon Dioxide (%)	Balance Gas (%) (e.g. H2S)	Temp (°C) / Pressure mBar	(m)	Name	Signature
×			08:30 (before work)	Jumy	G	20.9	0-03	0	31.51 1003	<1	San Hei Tung	3307
Road L- 0+210	U-Channel	1 /1 <i>0</i> /2024	13:30	Sunny	0	20,9	0.03	0	33-41 1005	<1	San Hei Tung	321A1
			15:30	Sunny	Ð	20.9	0-03	Ð	33.21 1005	<1	San Hei Tung	33A
			08:30 (before work)	Sunny	0	20,9	0.03	0	27.8 / 1010	<1	San Hei Tung	3301
Road L- 0+210	U-Channel	2 hol2024	13:30	Sunny	0	20.9	0.03	0	29-3/ 1010	<1	San Hei Tung	23071
		15:30	Sunny	ଚ	20.9	0.03	0	28.6' 1010	<1	San Hei Tung	FIRI	
			08:30 (before work)	Sunny	Ð	20.9	0.03	0	26-21 1013	<1	San Hei Tung	ZZAN
Road L- 0+210	U-Channel	3/1/2024	13:30	Sanny	Ð	20.9	0.03	0	28.3/ 1013	<1	San Hei Tung	OVAL
			15:30	Sunnt	0	20,9	0.03	0	27.51 1013	<1	San Hei Tung	SYNI
			08:30 (before work)	Sunny	0	20.9	0.03	ð	27.31 1014	<1	San Hei Tung	33M
Road L- 0+210	U-Channel	4 10/2024	13:30	Sunny	0	20.9	0.03	0	29-41 1014	<1	San Hei Tung	02111
			15:30	Sunny	Э	20.9	0.03	Ð	28.61 1014	<1	San Hei Tung	82111
			08:30 (before work)	Sunny	Θ	20,9	2.03	ð	27-6/ 1013	<1	San Hei Tung	23M
Road L- 0+210	U-Channel	<u>5</u> ho/2024	13:30	Sunny	0	20,9	0.03	0	29.31 1013	<1	San Hei Tung	23.A1
0.7710			15:30	Sunny	Õ	20,9	0,03	Ð	29-21 1013	<1	San Hei Tung	33A1
			08:30 (before work)	Sunny	ଚ	20,9	0.03	0	29-71 1013	<1	San Hei Tung	JIAN
Road L- 0+210	U-Channel	7 /10/2024	13:30	Sunny	0	20,9	0.03	0	31.3 1 1017	<1	San Hei Tung	SIVI
			15:30	Sunny	0	20,9	0.03	Ø	31.51 1014	<1	San Hei Tung	FIRI
			08:30 (before work)	Sunny	Ø	20.9	0.03	0	27.6 / 1014	<1	San Hei Tung	22A1
Road L- 0+210	U-Channel	8 /10/2024	13:30	Sunny	0	20.9	0.03	ଚ	29-31 1014	<1	San Hei Tung	330
			15:30	Summe	0	20.9	0.03	Ø	29-51 1014	<1	San Hei Tung	23071
			08:30 (before work)	Junny	0	20.9	0.03	0	26-2/1013	<1	San Hei Tung	337
Road L- 0+210	U-Channel	ๆ /เข/2024	13:30	Sunny	ð	20,9	0.03	0	27-1 / 1013	<1	San Hei Tung	3307
07210			15:30	Sunny	0	20,9	0.63	0	26-9/ 1013	<1	San Hei Tung	33071

Landfill Gas Monitoring - Field Measurement Recording Sheet

Checked by: <u>Chan 1sz Hih RUS</u>I-6 L. Date: <u>7-11-2024</u>

Contract Title :		Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Serial No. Monitoring Equipment Last Calibration]		
Contract No	D.:	13/WSD/17						254938	GMI-PS500	22/8/2023]	
Monitoring	Working trench/	Date	Time	Weather Condition		Landfill Gas	Parameters		Physical Parameters	Trench/ Pit Depth	Meas	ured by
Location	Pit	(dd/mm/yyyy)	(hh:mm)	Sunny/ Fine/ Overcast/ Drizzle/ Rain/ Storm/ Hazy	Methane (%LEL)	Oxygen (%)	Carbon Dioxide (%)	Balance Gas (%) (e.g. H2S)	Тетр (*Ċ) / Pressure mBar	(m)	Name	Signatur
			08:30 (before work)	Sunny	0	209	0.03	0	27.51 10\$3	<1	San Hei Tung	3212
Road L- 0+210	U-Channel	10/10/2024	13:30	Sunny	Ø	20,9	0.03	0	29-71 1013	<1	San Hei Tung	3317
			15:30	Sunny	0	20.9	0.03	0	29.4/ 1013	<1	San Hei Tung	ZZR
			08:30 (before work)	Sunny	0.	20,9	8.07	Ð	26-31 1015	<1	San Hei Tung	21A
Road L- 0+210	U-Channel	12/10/2024	13:30	Sunny	9	20,9	0.83	6	28.71 1015	<1	San Hei Tung	236
			15:30	Sunny	0	20,9	0.03	Ð	28.61 1015	<1	San Hei Tung	73A
			08:30 (before work)	Sunny	0	20,7	0.03	0	28.3 / 1013	<1	San Hei Tung	230
Road L- 0+210	U-Channel	14/10/2024	13:30	Sunny	0	: 20,9	0.03	0	29-6/ 1013	<1	San Hei Tung	72A
0.210			15:30	Sunny	0	20,9	0.03	0	29-21 1013	<1	San Hei Tung	336
	U-Channel		08:30 (before work)	Silway	0	20,9	0.03	0	27.9/ 1013	<1	San Hei Tung	230
Road L- 0+210		1 <i>5</i> 110/2024	13:30	Sunny	0	20,9	0.03	Õ	30.31 1013	<1	San Hei Tung	337
			15:30	Sunny	ð	20,9	0.03	0	30.5.1 1014	<1	San Hei Tung	0210
			08:30 (before work)	Sunny	0	20.9	0.03	Ø	28-2/1014	<1	San Hei Tung	230
Road L- 0+210	U-Channel	16 /i o/2024	13:30	Sunny	0	20,9	0.03	0	31.0 / 1014	<1	San Hei Tung	23A
			15:30	Sunny	0	2019	2.03	6	31.3/ 1014	<1	San Hei Tung	33/1
			08:30 (before work)	Samuy	0	209	0.03	0	27-6 / 1013	<1	San Hei Tung	230
Road L- 0+210	U-Channel	17 /10/2024	13:30	Sunny	0	20,9	0.03	0	29-1/1014	<1	San Hei Tung	241
			15:30	Sunny	0	20,9	0.03	0	29.01 1014	<1	San Hei Tung	0/10
			08:30 (before work)	Sanny	6	20.9	0.03	0	28.71 1013	<1	San Hei Tung	3710
Road L- 0+210	U-Channel	18/10/2024	13:30	Sunny	0	20.9	0.03	6	29.91 1013	<1	San Hei Tung	0201
			15:30	Sunny	0	20,9	0.03	Ō	30.31 1013	<1	San Hei Tung	08.1
			08:30 (before work)	Sunny	0	20.9	0.03	0	20.2/ 1014	<1	San Hei Tung	OVIV
Road L- 0+210	U-Channel	19 /10/2024	13:30	Sunny	0	20,9	0.63	0	32-1/ 1014	<1	San Hei Tung	22A
0.210			15:30	Sanny	0	20.9	0.03	0	31.61 1014	<1	San Hei Tung	ZZR
	Checked by :	Chap 15	HTL RWS	It / .								

Landfill Gas Monitoring - Field Measurement Recording Sheet

Checked by: <u>Chan Sz Hin KUUL</u>4-6 h Date: <u>J-11-2024</u>

Contract Title :		Design, Bui	ld and Operate	First Stage of Tseu	ng Kwan O I	Plant	Serial No.	Monitoring Equipment	Last Calibration]		
Contract No	b. :	13/WSD/17						254938	GMI-PS500	22/8/2023		
Monitoring	Working trench/	Date	Time	Weather Condition		Landfill Gas	Parameters		Physical Parameters	Trench/ Pit Depth	Meas	ured by
Location	Pit	(dd/mm/yyyy)	(hh:mm)	Sunny/ Fine/ Overcast/ Drizzle/ Rain/ Storm/ Hazy			Carbon Dioxide (%)	Balance Gas (%) (e.g. H2S)	Тетр (°С) / Pressure mBar	(m)	Name	Signature
			08:30 (before work)	Sumy	Ö	20-9	0-03	ð	28.1/ 1015	<1	San Hei Tung	220
Road L- 0+210	U-Channel	21/10/2024	13:30	Sunny	ଚ	20.9	0.03	0	31.1 / 1015	<1	San Hei Tung	2217
			15:30	Sunny	Ô	20,9	003	Ð	31.31 1015	<1	San Hei Tung	2217
			08:30 (before work)	Sunny	0	20,9	0.03	ð	28-61 1013	<1	San Hei Tung	3317
Road L- 0+210	U-Channel	22/10/2024	13:30	Sunny	0	209	0-63	0	32-1 / 1013	<1	San Hei Tung	22001
			15:30	Sunny	0	20.9	0.03	Ð	32-01 1014	<1	San Hei Tung	2201
			08:30 (before work)	Sunny	0	20,9	0.03	0	26-21 1012	<1	San Hei Tung	22001
Road L- 0+210	U-Channel	23/10/2024	13:30	Sunny	ଚ	20,9	0.03	8	\$28-1/ 1612	<1	San Hei Tung	ZZA1
			15:30	Sunny	0	20.9	0.03	0	280/ 1012	<1	San Hei Tung	2201
	U-Channel		08:30 (before work)	Sanny	0	20-9	0-03	0	24-1 1009	<1	San Hei Tung	22171
Road L- 0+210		24/10/2024	13:30	Sunny	ଚ	20,9	0.03	Ð	27-21 1069	<1	San Hei Tung	23.07
			15:30	Sunny	0	20,9	0.03	0	26-8/ 1009	<1	San Hei Tung	2300
		25/10/2024	08:30 (before work)	Sanny	ð	20.9	8.0]	0	26-01 1006	<1	San Hei Tung	23 AT
Road L- 0+210	U-Channel		13:30	Sunny	Θ	20.9	0.03	0	28.41 1006	, <1	San Hei Tung	3201
			15:30	Sanny	0	20,9	2.0.5	0	28.81 1006	<1	San Hei Tung	33.17
			08:30 (before work)	/		,			/	<1	San Hei Tung	
Road L- 0+210	U-Channel	/ /2024	13:30						./	<1	San Hei Tung	
			15:30						/	<1	San Hei Tung	
			08:30 (before work)						/	<1	San Hei Tung	
Road L- 0+210	U-Channel	/ /2024	13:30						/	<1	San Hei Tung	
			15:30						/	<1	San Hei Tung	
			08:30 (before work)	1.					/	<1	San Hei Tung	
Road L- 0+210	U-Channel	/ /2024	13:30			111			1	<1	San Hei Tung	
			15:30						·/	<1	San Hei Tung	

Landfill Gas Monitoring - Field Measurement Recording Sheet

Checked by: <u>Chan sz H7h RUSI-</u> Date: 7-11 - 2014





Appendix G

Waste Flow Table

Contract No. 13/WSD/17 Environmental Management Plan for Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Appendix F - Monthly Summary Waste Flow Table

Name of Department: WSD

Contract No.: 13/WSD/17

W	1	Actual Qua	untities of Inert C&I	O Materials Generat	ed Monthly		Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract		Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse		
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)		
Jan	4978.345	0.000	0.000	4667.745	310.600	0.000	0.000	0.000	0.000	0.000	77.800		
Feb	22561.796	0.000	0.000	21883.006	678.790	0.000	0.000	0.000	0.000	0.000	53.480		
Mar	81.140	0.000	0.000	0.000	81.140	0.000	0.000	0.000	0.000	0.000	52.260		
Apr	57.130	0.000	0.000	0.000	57.130	0.000	0.000	0.000	0.000	0.000	47.390		
May	91.370	0.000	0.000	0.000	91.370	0.000	0.000	0.000	0.000	0.000	77.260		
Jun	61.590	0.000	0.000	0.000	61.590	0.000	0.000	0.000	0.002	0.000	59.320		
Sub-total	27831.371	0.000	0.000	26550.751	1280.620	0.000	0.000	0.000	0.002	0.000	367.510		
Jul	60378.440	0.000	0.000	0.000	60378.440	0.000	0.000	0.000	0.000	0.000	66.800		
Aug	163.330	0.000	0.000	0.000	163.330	0.000	0.000	0.000	0.000	2.460	42.260		
Sep	834.890	0.000	0.000	0.000	834.890	0.000	0.000	0.000	0.000	0.805	27.020		
Oct	78.140	0.000	0.000	0.000	78.140	0.000	0.000	0.000	0.000	0.000	71.810		
Nov													
Dec													
Total	89286.171	0.000	0.000	26550.751	62735.420	0.000	0.000	0.000	0.002	3.265	575.400		

Monthly Summary Waste Flow Table for <u>2024</u> (year)

Notes:

(1) The performance targets are given in Section 1.69 of Specification B

(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 H

Site Inspection Proforma





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date:	03 October 2024	Inspected by: C	ET:	Toby Wan Andy Leung	SO:D IEC:	erek Lai	WSE):
Inspect	ion Time: _	14:30							
Weath									
Condi	tion	√ Sunny Fine	Overcast	Drizzle	Rain	Storm	Н	azy	
Tempe	erature	26 ^o C	Humidity	✔ High	Moderate	Low			
Wind		Calm 🗸 Light	Breeze	Strong					
Item	EIA ref.					N/A	Yes	No	Photo/Remarks
No.									
0.00		General							
0.01		Is the current Environmental Per-	mit displayed consp	picuously a	t all vehicle site		\checkmark		
		entrances/exits for public's information	ation at any time?						
0.02		Is ET Leader's log-book kept readi	ly available for incr	actions?					
		is ET Leader's log-book kept lead	Ty available for hisp	cetions:			\checkmark		
		Construction Dust							
1.00	S4.8.1	Are dusty materials, such as excav	vated materials, build	ding debris	and construction		\checkmark		
1.01		materials, and exposed earth surfac	e properly covered t	o prevent d	ust emission?				
1.02	S4.8.1	Are screenings, enclosures, water s	praying, or vacuum	cleaning de	vices provided to				
		dusty construction works for dust s	uppression?				\checkmark		
1.03	S4.8.1	Are fumes or smoke emitting plant	s or construction act	ivities shiel	ded by a screen?	✓			
1.04	S4.8.1	Are wheel-washing facilities with h	nigh-pressure water j	jets provide	d at all site exits?				
1.05	S4.8.1								
1.05	54.0.1	Is wheel-washing provided to all ve	ehicles leaving the si	ite?		\checkmark			
1.06	S4.8.1	Are road section near the site exit f	ree from dusty mate	rial?			\checkmark		
1.07	S4.8.1	Are all main haul roads inside the	e site paved or spra	yed with w	ater to minimize				
		dust emission during vehicle move	ment?				\checkmark		
1.08	S4.8.1	Are water spraying provided imme	ediately prior to any	loading or	transfer of dusty				
		materials?					\checkmark		
1.09	S4.8.1	Are covers provided to all dump tr	ucks carrying dusty	materials w	hen entering and				
		leaving the site?					\checkmark		
1.10	S4.8.1	Are the working areas for uprootin	ng of trees, shrubs, o	or vegetatio	on or the removal				
		of boulders, poles, pillars sprayed v	with water to maintai	in the entire	surface wet?		\checkmark		
1.11	S4.8.1	Is exposed earth properly treated	l within six months	s after the	last construction				
		activity on site?				\checkmark			
1.12	S4.8.1								
		Does the operation of plants on site	e free form dark smo	ke emissior	1?		\checkmark		
1.13	S4.8.1	Are vehicles travelling at speed not	t exceeding 15km/hr	within the	site?				
							\checkmark		·
1.14	S4.8.1	Are stock of more than 20 bags of	cement or day PFA	covered of	r sheltered on top		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.15	S4.8.1	and 3 sides? Are de-bagging, batching and mixing processes of bagged cement carried out in				
1.15	54.0.1	sheltered areas?	\checkmark			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas				
		accessible by the public?	\checkmark			
1.17	S4.8.1	Is open burning prohibited?		\checkmark		
2.00		Construction Noise (Airborne)				
2.01	S5.7	Are quiet plants adopted on site?		\checkmark		
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of				
		excessive noise?		\checkmark		
2.03	S5.7	Are plants throttled down or turned off when not in use?	\checkmark			
2.04	S5.7	Are the plants known to emit noise strongly in one direction oriented to face away				
		from NSRs?	v			
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	1			
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?		\checkmark		
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\checkmark		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?	\checkmark			
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	\checkmark			
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	✓			
2.11	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?		\checkmark		
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?	\checkmark			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?		\checkmark		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		
3.00		Water Quality				
3.01	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\checkmark		
3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?		\checkmark		
3.05	S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided				





	EIA ref.	ct no. 13/WSD/17 Design, Build and Operate First Stage of T				
tem No.	EIA ret.		N/A	Yes	No	Photo/Remarks
		to remove sand/silt particles from runoff?		\checkmark		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		
3.07	S6.9	Is the drainage system properly maintained?		✓		
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	~			
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?		\checkmark		
8.10	S6.9	Are temporary access roads protected by crushed gravel?	~			
3.11	S6.9	Are exposed slope surface properly protected?	✓			8
3.12	S6.9	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		\checkmark		
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?		\checkmark		
8.14	S6.9	Is runoff from wheel-washing facilities avoided?		✓		
.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		
8.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm drainage system?		\checkmark		
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?		\checkmark		
3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		\checkmark		
3.19	S6.9	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		\checkmark		
.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		1		
.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		✓		
.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\checkmark		
.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		
.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?		\checkmark		
3.25	\$6.9	Is closed grab dredger used to reduce the potential leakage of sediments?	\checkmark			
.26	\$6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	\checkmark			
.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab				





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
		dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m ³ closed				
		grab, 10-11 grab per hour for 6m3 closed grab?				
3.28	S6.9	Is the grab operated in slow and controlled manner such that the impact to seabed				
		by the grab when being lowered could be minimized? Is the operator ensured the				
		grab be properly closed before lifting the grab?	\checkmark			
3.29	S6.9	Is the maximum allowed dredging rate at the seawater intake limited to 750 m3/day				
		while the maximum allowed dredging rate at the submarine outfall is 3,500				
		m3/day?	\checkmark			
3.30	S6.9	Is dredged marine sediment disposed of in a gazetted marine disposal area in				
		accordance with marine dumping permit conditions of the Dumping at Sea				
		Ordinance (DASO)?	\checkmark			
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of				
		material during transport?	\checkmark			
3.32	S6.9	Are barges filled to a level which ensures that material does not spill over during		_	_	
		transport to the disposal site and that adequate freeboard is maintained to ensure			·	
		that the decks are not washed by wave action?	\checkmark			
3.33	S6 9	Are excess materials cleaned from decks and exposed fittings before the vessel is				
5.55	50.7	moved from the dredging area after dredging?	1			
3.34	\$6.0	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
5.54	50.9	litter or other objectionable matter to be present in the water within and adjacent				
		to the dredging site?	\checkmark			
3.35	560	When the dredged material has been unloaded at the disposal areas, is any material				
5.55	30.9	accumulated on the deck or other exposed parts of the vessel removed and placed in				
		the hold or a hopper?	\checkmark			
3.36	560	Is dredger maintained adequate clearance between vessels and the seabed at all				
5.50	50.9					
		states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from vessel movement or propeller wash?	\checkmark			
3.37	86.0					
3.37	\$6.9	Is the contractor shall regularly inspect the silt curtains and check that they are				
		moored and marked to avoid danger to marine traffic? Is regular inspection on the				
		integrity of the silt curtain carried out by the contractor and any damage to the silt	1			
		curtain shall be repaired by the contractor promptly?				
3.38	\$6.9	Are all vessels have a clean ballast system?	\checkmark			
3.39	86.0	Are all vessels well maintained and inspected before use to limit any potential				
5.59	50.9		\checkmark			
2.40	860	discharges to the marine environment?				
3.40	30.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially	\checkmark			
2 41	560	contaminated area on working vessels should be minimized and collected?				
3.41	30.9	Is any soil waste disposed overboard?	\checkmark			
4.00		Waste Management				
4.01	S8.5	Is a trip-ticket system implemented to monitor the disposal of C&D and solid				
		wastes at public filling facilities and landfills?		\checkmark		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated,				-
		recycled and disposed of?		\checkmark		
4.02	C0 E	To the Contractor resistance of a chamical works and decay				





Item	EIA ref.	in in in the second sec	N/A	Yes	No	Photo/Remarks
No.						
				\checkmark		
4.04	S8.5	Is chemical waste separated from other waste and collected by a licensed chemical		\checkmark		
4.05	58 5	waste collector?				
		Are trip tickets for chemical waste disposal available for inspection?		\checkmark		
4.06	S8.5	Is drip tray provided for chemical storage?		\checkmark		
4.07	S8.5	Are all containers for chemical waste properly labelled?		\checkmark		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and				
		properly labelled?		\checkmark		
4.09	S8.5	Are incompatible chemical wastes stored in different areas?		\checkmark		
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately				
		ventilated?		\checkmark		
4.11	S8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the				
		volume of the largest container or of 20% by volume of the chemical waste stored		<u>v</u>		
4.12		in that area, whichever is the greatest, provide? Are a routine cleaning and maintenance programme implemented for drainage				
7.12		systems, sump pits, and oil interceptors?		\checkmark		
4.13	58.5					
		Are sufficient general refuse disposal/collection points provided on site?		\checkmark		
4.14	S8.5	Is general refuse disposed of properly and regularly?		\checkmark		
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during				
		transportation of waste?		✓		
4.16		Are individual collectors for aluminum cans, plastic bottles and packaging material		./	\square	
4.17		and office paper provided to encourage waste segregation?				
		Are C&D wastes sorted on site?		\checkmark		Reminder 1
4.18	S8.5	Are C&D waste disposed of properly?		\checkmark		
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity				
		of waste?		\checkmark		
4.20		Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\checkmark		
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage				
		or contamination?		\checkmark		
4.22	\$8.5	Is a dumping license obtained to deliver public fill to public filling areas?		\checkmark		
5.00	S11.10	Landscape and Visual				
		Are Is site hoarding provided?	\checkmark			
5.02	\$11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	11.11					
5.03	S11.10 &	Is construction light oriented away from the sensitive receivers?				
	11.11	is construction right oriented using from the sensitive receivers.	✓			
5.04	S11.10	Is grass hydroseeding provided to slopes as soon as the completion of works?				
	& 11.11	as grass nyeloseeding provided to stopes as soon as the completion of works.	\checkmark			
5.05	S11.10 & 11.11	Are damages to trees outside site boundary due construction works avoided?		\checkmark		
5.06	S11.10 &	Is excavation works carried out manually instead of machinery operation within 2.5m				
		vicinity of any preserved trees?	\checkmark			
5.07	S11.10 &					
	11.11	Are the retained and transplanted tree(s) properly protected and in good conditions?		\checkmark		
5.08	S11.10 &	Are surgery works carried out for damaged trees?				
	11.11		\checkmark			
6.00	S9.7	Ecology				
6.01		Is site runoff properly treated to prevent any silly runoff?		\checkmark		
6.02	S9.7	Are silt trap installed and well-maintained?	\checkmark			
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?				
				\checkmark		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?		\checkmark		
6.05	S9.7	For slope mitigation works within the Clear Water Bay Country Park, are tree felling and				
		damages to trees, the exact locations of the flexible barrier foundation plates, soil nails				
		and rock dowels adjusted during detailed design, and a setback distance from existing		1		
		trees is recommended to be maintained as far as practical?				
6.06	S9.7	Are pruning of tree canopies along the alignment of the flexible barriers limited to a				
		minimum?	•			
6.07	S9.7	Is the alignment of flexible barriers optimized to preserve all species of conservation				
		interest and minimize the impact to the existing vegetation as far as practicable? Are the				
		alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these	\checkmark			
6.00		individuals?				
6.08		Is temporary fencing installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being				
		damaged and disturbed during construction? Is a sign identifying the site attached to the				
		fence and flagging tape shall be attached to the individuals to visualize their locations?	\checkmark			
6.09		Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or				
		other flora species of conservation interest, if found) adjacent to the proposed alignment				
		of the flexible barriers prepared to protect the species?	\checkmark			
6.10		Is any induction training provided to all site personnel in order to brief them on this flora				
		of conservation interest including the locations and their importance?		\checkmark		
6.11	S9.7	Is the resident site supervisory staff closely monitor the conditions of concerned				
		individuals during construction of flexible barriers in the close proximity?		\checkmark		
6.12	S9.7	Are fences erected along the boundary of the works area before the commencement of				
		works to prevent vehicle movements and encroachment of personnel onto adjacent				
		areas?	\checkmark			
L						





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
6.13	S9.7	Is regular check of the work site boundaries performed to ensure that they are not breached and that damage does not occur to surrounding areas?		\checkmark		
6.14	S9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal?		✓		
6.15	S9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting?	~			
6.16	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro- seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works?	\checkmark			
7.00		Landfill Gas Hazard				
7.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		\checkmark		
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		\checkmark		
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers?		\checkmark		
7.04	S12.7	Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade?		\checkmark		
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact?		\checkmark		
7.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?		1		
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?		√		
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		\checkmark		
7.09	S12.7	Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?	~			
7.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?	\checkmark			
7.11	S12.7	Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit?	✓			
7.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		\checkmark		
8.00 8.01		Overall Is the EM&A properly implemented in general?		\checkmark		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date = 3 Oct 2024 R1. The contractor was reminded to clear the construction waste regularly. Signatures: ΕT Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: Orea (Name: Any Leury) (Name: Toby War) æ (Name:) (Name:)





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date: _	08 October 2024	Inspected by: C	ET:	Toby Wan Andy Leung	SO:D IEC:	erek Lai	WSE):
Inspect	ion Time: _	14:30							
Weath									
Condi	tion	Sunny Fine	Overcast	Drizzle	Rain	Storm	Н	azy	
Tempe	erature	°C	Humidity	✔ High	Moderate	Low			
Wind		Calm 🗸 Light	Breeze	Strong					
I									
Item	EIA ref.					N/A	Yes	No	Photo/Remarks
No.									
0.00		General							
0.01		Is the current Environmental Per	rmit displayed consp	picuously a	t all vehicle site		\checkmark		
		entrances/exits for public's inform	ation at any time?					<u> </u>	
0.02		In ET I and on's last hash hant used	ile encilable for incr	antinun ?					
		Is ET Leader's log-book kept read	ity available for hisp	ections?			\checkmark		
		Construction Dust							
1.00	S4.8.1	Are dusty materials, such as exca	vated materials, buil	ding debris	and construction		\checkmark		
1.01		materials, and exposed earth surface	ce properly covered t	to prevent d	ust emission?			L1	
1.02	S4.8.1	Are screenings, enclosures, water	spraying, or vacuum	cleaning de	vices provided to				
		dusty construction works for dust	suppression?				\checkmark		
1.03	S4.8.1	Are fumes or smoke emitting plan	ts or construction act	ivition chiel	dad by a coroon?				
		Are runnes of smoke emitting plan	is of construction act	IVILLES SHIEI	ded by a screen?	\checkmark			
1.04	S4.8.1	Are wheel-washing facilities with	high-pressure water j	jets provide	d at all site exits?	✓			
1.05	S4.8.1	Is wheel-washing provided to all v	rehicles leaving the si	ite?		✓			
1.06	S4.8.1	Are road section near the site exit	free from dusty mate	erial?			\checkmark		
1.07	S4.8.1	Are all main haul roads inside th	e site paved or spra	wed with w	ater to minimize				
1107	5 11011	dust emission during vehicle move					\checkmark		
1.08	S4.8.1	Are water spraying provided imm		loading or	transfer of dusty				
		materials?		8			\checkmark		
1.09	S4.8.1	Are covers provided to all dump t	rucks carrying dusty	materials v	hen entering and				
	5 11011	leaving the site?			and the second second		\checkmark		
1.10	S4.8.1	Are the working areas for uprooti	ng of trees shrubs	or vegetatio	on or the removal				
	51.0.1	of boulders, poles, pillars sprayed	-	-			\checkmark		
1.11	S4.8.1	Is exposed earth properly treated				<u> </u>			
	51.0.1	activity on site?		s unter the	lust construction	1			
1.12	S4.8.1								
1.12	54.0.1	Does the operation of plants on sit	e free form dark smo	oke emissior	1?		\checkmark		
1.13	S4.8.1				1: 0				
		Are vehicles travelling at speed no	t exceeding 15km/hr	within the	site?		\checkmark		
1.14	S4.8.1	Are stock of more than 20 bags of	f cement or day PFA	A covered of	r sheltered on top				
					-		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.15	S4.8.1	and 3 sides? Are de-bagging, batching and mixing processes of bagged cement carried out in				
1.15	54.0.1	sheltered areas?	\checkmark			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas				
		accessible by the public?	\checkmark			
1.17	S4.8.1	Is open burning prohibited?		\checkmark		
2.00		Construction Noise (Airborne)				
2.01	S5.7	Are quiet plants adopted on site?		\checkmark		
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of				
		excessive noise?		\checkmark		
2.03	S5.7	Are plants throttled down or turned off when not in use?	\checkmark			
2.04	S5.7	Are the plants known to emit noise strongly in one direction oriented to face away				
		from NSRs?	v			
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	1			
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?		\checkmark		
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\checkmark		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?	\checkmark			
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	\checkmark			
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	✓			
2.11	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?		\checkmark		
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?	\checkmark			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?		\checkmark		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		
3.00		Water Quality				
3.01	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\checkmark		
3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?		\checkmark		
3.05	S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided				





	EIA ref.	ct no. 13/WSD/17 Design, Build and Operate First Stage of T				
tem No.	EIA ref.		N/A	Yes	No	Photo/Remarks
		to remove sand/silt particles from runoff?		\checkmark		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		
3.07	S6.9	Is the drainage system properly maintained?		✓		
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	~			
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?		\checkmark		
8.10	S6.9	Are temporary access roads protected by crushed gravel?	~			
3.11	S6.9	Are exposed slope surface properly protected?	✓			8
3.12	S6.9	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		✓		
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?		\checkmark		
8.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		
8.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm drainage system?		\checkmark		
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?		\checkmark		
8.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		\checkmark		
3.19	S6.9	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		\checkmark		
.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		1		
.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		✓		
.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\checkmark		
.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		
.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?		\checkmark		
3.25	\$6.9	Is closed grab dredger used to reduce the potential leakage of sediments?	\checkmark			
.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	\checkmark			
.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab				





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
		dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m ³ closed				
		grab, 10-11 grab per hour for 6m3 closed grab?				
3.28	S6.9	Is the grab operated in slow and controlled manner such that the impact to seabed				
		by the grab when being lowered could be minimized? Is the operator ensured the				
		grab be properly closed before lifting the grab?	\checkmark			
3.29	S6.9	Is the maximum allowed dredging rate at the seawater intake limited to 750 m3/day				
		while the maximum allowed dredging rate at the submarine outfall is 3,500				
		m3/day?	\checkmark			
3.30	S6.9	Is dredged marine sediment disposed of in a gazetted marine disposal area in				
		accordance with marine dumping permit conditions of the Dumping at Sea				
		Ordinance (DASO)?	\checkmark			
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of				
		material during transport?	\checkmark			
3.32	S6.9	Are barges filled to a level which ensures that material does not spill over during		_		
		transport to the disposal site and that adequate freeboard is maintained to ensure				
		that the decks are not washed by wave action?	\checkmark			
3.33	S6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is				
		moved from the dredging area after dredging?	\checkmark			
3.34	\$6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
5.51	50.7	litter or other objectionable matter to be present in the water within and adjacent				
		to the dredging site?	\checkmark			
3.35	\$6.9	When the dredged material has been unloaded at the disposal areas, is any material				
5.55	50.7	accumulated on the deck or other exposed parts of the vessel removed and placed in				
		the hold or a hopper?	1			
3.36	\$6.9	Is dredger maintained adequate clearance between vessels and the seabed at all				
5.50	50.7	states of the tide and reduce operations speed to ensure that excessive turbidity is				
		not generated by turbulence from vessel movement or propeller wash?	\checkmark			
3.37	\$6.9	Is the contractor shall regularly inspect the silt curtains and check that they are				
5.57	50.7	moored and marked to avoid danger to marine traffic? Is regular inspection on the				
		integrity of the silt curtain carried out by the contractor and any damage to the silt				
		curtain shall be repaired by the contractor promptly?	\checkmark	\square		
2 20	860	caraan shan be repaired by the contractor promptry :				
3.38	30.9	Are all vessels have a clean ballast system?	\checkmark	\square		
3.39	S6.9	Are all vessels well maintained and inspected before use to limit any potential				
		discharges to the marine environment?	\checkmark			
3.40	S6.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially				
		contaminated area on working vessels should be minimized and collected?	\checkmark			
3.41	S6.9					
		Is any soil waste disposed overboard?	\checkmark			
4.00		Waste Management				
4.01	S8.5	Is a trip-ticket system implemented to monitor the disposal of C&D and solid				
		wastes at public filling facilities and landfills?		1		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated,				
		recycled and disposed of?		\checkmark		
4.02	C0 2	To the Contractor registered on a chemical moster and discort?				





Item	EIA ref.	in the second of	N/A	Yes	No	Photo/Remarks
No.						
				\checkmark		
4.04	60 F	Te show in the second of the second second section of the second s				
4.04	58.5	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?		\checkmark		
4.05	S8.5	Are trip tickets for chemical waste disposal available for inspection?		\checkmark		
4.06	S8.5	Is drip tray provided for chemical storage?		✓		
4.07	S8.5	Are all containers for chemical waste properly labelled?		\checkmark		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and				
		properly labelled?		\checkmark		
4.09	S8.5	Are incompatible chemical wastes stored in different areas?		\checkmark		
4.10		Is the chemical waste storage area enclosed on at least 3 sides and adequately				
		ventilated?		V		
4.11	S8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored			\square	
		in that area, whichever is the greatest, provide?				
4.12		Are a routine cleaning and maintenance programme implemented for drainage				
		systems, sump pits, and oil interceptors?		\checkmark		
4.13	S8.5	Are sufficient general refuse disposal/collection points provided on site?		\checkmark		
4.14	S8.5	Is general refuse disposed of properly and regularly?		\checkmark		
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during				
		transportation of waste?		\checkmark		
4.16		Are individual collectors for aluminum cans, plastic bottles and packaging material		1	\square	
4.17		and office paper provided to encourage waste segregation?				
4.17		Are C&D wastes sorted on site?		\checkmark		
4.18	\$8.5	Are C&D waste disposed of properly?		\checkmark		
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity				
		of waste?		\checkmark		
4.20		Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\checkmark		
4.21		Are the construction materials stored properly to minimize the potential for damage				
		or contamination?		✓		
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?		\checkmark		
5.00	S11.10	Landscape and Visual				
5.01	& 11.11	Are Is site hoarding provided?	\checkmark			
5.02	S11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	11.11					
5.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?	\checkmark			
5.04	S11.10 & 11.11	Is grass hydroseeding provided to slopes as soon as the completion of works?	✓			
5.05	S11.10 & 11.11	Are damages to trees outside site boundary due construction works avoided?		1		
5.06		Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	✓			
5.07	S11.10 &			\checkmark		
5.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?		\Box	\Box	
6.00		Ecology			_	
6.01		Is site runoff properly treated to prevent any silly runoff?		\checkmark		
6.02	S9.7	Are silt trap installed and well-maintained?	✓			
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?		\checkmark		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?		\checkmark		
6.05		For slope mitigation works within the Clear Water Bay Country Park, are tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical?		 ✓ 		
6.06		Are pruning of tree canopies along the alignment of the flexible barriers limited to a minimum?	\checkmark			
6.07		Is the alignment of flexible barriers optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable? Are the alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these individuals?	~			
6.08		Is temporary fencing installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction? Is a sign identifying the site attached to the fence and flagging tape shall be attached to the individuals to visualize their locations?	~			
6.09		Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers prepared to protect the species?	\checkmark			
6.10		Is any induction training provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance?		\checkmark		
6.11		Is the resident site supervisory staff closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity?		\checkmark		
6.12		Are fences erected along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas?	✓			
612	CO 7	To maniform sharest of the resource site housedowing nonforment to ensure that there are not				





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
		breached and that damage does not occur to surrounding areas?		\checkmark		
6.14	S9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal?		\checkmark		
6.15	S9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting?	1			
6.16	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro- seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works?	✓			
7.00 7.01	S12.7	Landfill Gas Hazard Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		\checkmark		
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		\checkmark		
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers?		\checkmark		
7.04	S12.7	Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade?		\checkmark		
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact?		✓		
7.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?		\checkmark		
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?		√		
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		\checkmark		
7.09	S12.7	Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?	1			
7.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?	\checkmark			
7.11	S12.7	Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit?	\checkmark			
7.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		\checkmark		
8.00 8.01		Overall Is the EM&A properly implemented in general?		\checkmark		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date : & Oct 2024 No major observation was found durly site inspection. Signatures: ΕT Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: Toby Wan) (Name: (Name: (Name: (Name:))





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date:	15 October 2024	Inspected by:	ET: Contractor:	Toby Wan Andy Leung	SO:D IEC:	erek Lai	WSE):
Inspect	ion Time: _	14:30							
Weath									
Condi	tion	Sunny	Overcast	Drizzle	Rain	Storm	Н	azy	
Tempe	erature	28 °C	Humidity	✓ High	Moderate	Low			
Wind		Calm 🗸 Light	Breeze	Strong					
		r							
Item	EIA ref.					N/A	Yes	No	Photo/Remarks
No.		Conoral							
0.00 0.01		General	mit displayed some		t all mahiala aita				
0.01		Is the current Environmental Per entrances/exits for public's inform		spicuously a	t all venicle site		\checkmark		
0.02									
		Is ET Leader's log-book kept read	ily available for insp	pections?			\checkmark		
		Construction Dust							
1.00	S4.8.1	Are dusty materials, such as exca	vated materials, bui	lding debris	and construction		\checkmark		
1.01		materials, and exposed earth surface	ce properly covered	to prevent d	ust emission?				
1.02	S4.8.1	Are screenings, enclosures, water	spraying, or vacuum	n cleaning de	evices provided to				
		dusty construction works for dust s	suppression?				v		
1.03	S4.8.1	Are fumes or smoke emitting plant	ts or construction ac	tivities shiel	ded by a screen?	\checkmark			
1.04	S4.8.1	Are wheel-washing facilities with	high-pressure water	jets provide	d at all site exits?	✓			
1.05	S4.8.1	Is wheel-washing provided to all v	whicles leaving the s	site?		✓			
1.06	S4.8.1	Are road section near the site exit	free from dusty mate	erial?			\checkmark		
1.07	S4.8.1	Are all main haul roads inside th	e site paved or spr	aved with w	ater to minimize		<u> </u>		
1.07	5 1.0.1	dust emission during vehicle move		ayea with w			\checkmark		
1.08	S4.8.1	Are water spraying provided imm	ediately prior to any	y loading or	transfer of dusty				
		materials?					\checkmark		
1.09	S4.8.1	Are covers provided to all dump the	rucks carrying dusty	/ materials v	when entering and				
		leaving the site?					\checkmark		
1.10	S4.8.1	Are the working areas for uprooti	ng of trees, shrubs,	or vegetatio	on or the removal				
		of boulders, poles, pillars sprayed	with water to mainta	ain the entire	surface wet?		\checkmark		
1.11	S4.8.1	Is exposed earth properly treated	d within six month	is after the	last construction				
		activity on site?				\checkmark			
1.12	S4.8.1	Does the operation of plants on site	e free form dark smo	oke emissior	1?		\checkmark		
1.13	S4.8.1								
		Are vehicles travelling at speed no	t exceeding 15km/h	r within the	site?		\checkmark		
1.14	S4.8.1	Are stock of more than 20 bags of	f cement or day PFA	A covered of	r sheltered on top		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.15	S4.8.1	and 3 sides? Are de-bagging, batching and mixing processes of bagged cement carried out in				
1.15	54.0.1	sheltered areas?	\checkmark			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas				
		accessible by the public?	\checkmark			
1.17	S4.8.1	Is open burning prohibited?		\checkmark		
2.00		Construction Noise (Airborne)				
2.01	S5.7	Are quiet plants adopted on site?		\checkmark		
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of				
		excessive noise?		\checkmark		
2.03	S5.7	Are plants throttled down or turned off when not in use?	\checkmark			
2.04	S5.7	Are the plants known to emit noise strongly in one direction oriented to face away				
		from NSRs?	√			
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	1			
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?		\checkmark		
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\checkmark		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?	\checkmark			
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	\checkmark			
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	✓			
2.11	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?		\checkmark		
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?	\checkmark			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?		\checkmark		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		
3.00		Water Quality				
3.01	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\checkmark		
3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?		\checkmark		
3.05	S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided				





	EIA ref.	ct no. 13/WSD/17 Design, Build and Operate First Stage of T				
tem No.	EIA ret.		N/A	Yes	No	Photo/Remarks
		to remove sand/silt particles from runoff?		\checkmark		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		
3.07	S6.9	Is the drainage system properly maintained?		✓		
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	~			
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?		\checkmark		
8.10	S6.9	Are temporary access roads protected by crushed gravel?	~			
3.11	S6.9	Are exposed slope surface properly protected?	✓			8
3.12	S6.9	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		✓		
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?		\checkmark		
8.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		
8.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm drainage system?		\checkmark		
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?		\checkmark		
8.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		\checkmark		
3.19	S6.9	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		\checkmark		
.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		1		
.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		✓		
.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\checkmark		
.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		
.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?		\checkmark		
3.25	\$6.9	Is closed grab dredger used to reduce the potential leakage of sediments?	\checkmark			
.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	\checkmark			
.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab				





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
		dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m ³ closed				
		grab, 10-11 grab per hour for 6m3 closed grab?				
3.28	S6.9	Is the grab operated in slow and controlled manner such that the impact to seabed				
		by the grab when being lowered could be minimized? Is the operator ensured the				
		grab be properly closed before lifting the grab?	\checkmark			
3.29	S6.9	Is the maximum allowed dredging rate at the seawater intake limited to 750 m3/day				
		while the maximum allowed dredging rate at the submarine outfall is 3,500				
		m3/day?	\checkmark			
3.30	S6.9	Is dredged marine sediment disposed of in a gazetted marine disposal area in				
		accordance with marine dumping permit conditions of the Dumping at Sea				
		Ordinance (DASO)?	\checkmark			
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of				
		material during transport?	\checkmark			
3.32	S6.9	Are barges filled to a level which ensures that material does not spill over during		_		
		transport to the disposal site and that adequate freeboard is maintained to ensure				
		that the decks are not washed by wave action?	\checkmark			
3.33	S6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is				
		moved from the dredging area after dredging?	\checkmark			
3.34	\$6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
5.51	50.7	litter or other objectionable matter to be present in the water within and adjacent				
		to the dredging site?	\checkmark			
3.35	\$6.9	When the dredged material has been unloaded at the disposal areas, is any material				
5.55	50.7	accumulated on the deck or other exposed parts of the vessel removed and placed in				
		the hold or a hopper?	1			
3.36	\$6.9	Is dredger maintained adequate clearance between vessels and the seabed at all				
5.50	50.7	states of the tide and reduce operations speed to ensure that excessive turbidity is				
		not generated by turbulence from vessel movement or propeller wash?	\checkmark			
3.37	\$6.9	Is the contractor shall regularly inspect the silt curtains and check that they are				
5.57	50.7	moored and marked to avoid danger to marine traffic? Is regular inspection on the				
		integrity of the silt curtain carried out by the contractor and any damage to the silt				
		curtain shall be repaired by the contractor promptly?	\checkmark	\square		
2 20	860	caraan shan be repaired by the contractor promptry :				
3.38	30.9	Are all vessels have a clean ballast system?	\checkmark	\square		
3.39	S6.9	Are all vessels well maintained and inspected before use to limit any potential				
		discharges to the marine environment?	\checkmark			
3.40	S6.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially				
		contaminated area on working vessels should be minimized and collected?	\checkmark			
3.41	S6.9					
		Is any soil waste disposed overboard?	\checkmark			
4.00		Waste Management				
4.01	S8.5	Is a trip-ticket system implemented to monitor the disposal of C&D and solid				
		wastes at public filling facilities and landfills?		1		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated,				
		recycled and disposed of?		\checkmark		
4.02	C0 2	To the Contractor registered on a chemical moster and discort?				





Item	EIA ref.	int ion soft besign, build and operate i not stage of i	N/A	Yes	No	Photo/Remarks
No.						
				\checkmark		
4.04	60 F					
4.04	58.5	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?		\checkmark		
4.05	S8.5	Are trip tickets for chemical waste disposal available for inspection?		\checkmark		
4.06	S8.5	Is drip tray provided for chemical storage?		✓		
4.07	S8.5	Are all containers for chemical waste properly labelled?		✓		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and				
		properly labelled?		\checkmark		
4.09	S8.5	Are incompatible chemical wastes stored in different areas?		\checkmark		
4.10		Is the chemical waste storage area enclosed on at least 3 sides and adequately				
		ventilated?		V		
4.11	\$8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored		\checkmark		
		in that area, whichever is the greatest, provide?				
4.12	S8.5	Are a routine cleaning and maintenance programme implemented for drainage				
		systems, sump pits, and oil interceptors?		\checkmark		
4.13	S8.5	Are sufficient general refuse disposal/collection points provided on site?		\checkmark		
4.14	S8.5	Is general refuse disposed of properly and regularly?		\checkmark		Reminder 1
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during				
		transportation of waste?		\checkmark		
4.16		Are individual collectors for aluminum cans, plastic bottles and packaging material				
4.17		and office paper provided to encourage waste segregation?				
		Are C&D wastes sorted on site?		\checkmark		
4.18	S8.5	Are C&D waste disposed of properly?		\checkmark		
4.19		Are unused C&D materials or chemicals recycled or reused to reduce the quantity				
		of waste?		\checkmark		
4.20		Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\checkmark		
4.21		Are the construction materials stored properly to minimize the potential for damage				
		or contamination?		_ v		
4.22	88.5	Is a dumping license obtained to deliver public fill to public filling areas?		\checkmark		
		Landscape and Visual				
5.01	& 11.11	Are Is site hoarding provided?	\checkmark			
5.02	\$11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	11.11					
5.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?	\checkmark			
5.04	S11.10 & 11.11	Is grass hydroseeding provided to slopes as soon as the completion of works?	\checkmark			
5.05	S11.10 & 11.11	Are damages to trees outside site boundary due construction works avoided?		\checkmark		
5.06		Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	✓			
5.07	S11.10 & 11.11	Are the retained and transplanted tree(s) properly protected and in good conditions?		1		
5.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?	✓			
6.00	S9.7	Ecology				
6.01		Is site runoff properly treated to prevent any silly runoff?		\checkmark		
6.02	S9.7	Are silt trap installed and well-maintained?	~			
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?		\checkmark		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?		\checkmark		
6.05		For slope mitigation works within the Clear Water Bay Country Park, are tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical?		✓		
6.06		Are pruning of tree canopies along the alignment of the flexible barriers limited to a minimum?	✓			
6.07		Is the alignment of flexible barriers optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable? Are the alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these individuals?	√			
6.08		Is temporary fencing installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction? Is a sign identifying the site attached to the fence and flagging tape shall be attached to the individuals to visualize their locations?	~			
6.09		Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers prepared to protect the species?	\checkmark			
6.10	S9.7	Is any induction training provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance?		✓		
6.11		Is the resident site supervisory staff closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity?		\checkmark		
6.12		Are fences erected along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas?	✓			
612	50.7	To maximum about of the mouth site have down and mand to another that there are not	· · · · · · · · · · · · · · · · · · ·			





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
		breached and that damage does not occur to surrounding areas?		\checkmark		
6.14	S9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal?		\checkmark		
6.15	S9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting?	1			
6.16	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro- seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works?	✓			
7.00 7.01	S12.7	Landfill Gas Hazard Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		\checkmark		
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		\checkmark		
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers?		\checkmark		
7.04	S12.7	Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade?		\checkmark		
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact?		\checkmark		
7.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?		1		
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?		1		
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		\checkmark		
7.09	S12.7	Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?	1			
7.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?	\checkmark			
7.11	S12.7	Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit?	\checkmark			
7.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		\checkmark		
8.00 8.01		Overall Is the EM&A properly implemented in general?		\checkmark		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection; Site Inspection Date = 15 Oct 2024 RI. The contractor was reminded to clear the general refuse regularly. Signatures: Supervising Officer's EΤ Contractor's IEC's WSD's Representati Representative Representativ Representative Representative (Name: Tsby War) (Name: And Ju (Name) 4) (Name:) (Name:)





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date:	22 October 2024	Inspected by:	ET: Contractor:	Toby Wan Andy Leung	SO:D IEC:	erek Lai	WSE):
Inspect	ion Time: _	14:30							
Weath									
Condi	tion	Sunny Fine	Overcast	Drizzle	Rain	Storm	Н	azy	
Tempe	erature	28 °C	Humidity	✔ High	Moderate	Low			
Wind		Calm 🗸 Light	Breeze	Strong					
		r				1			
Item	EIA ref.					N/A	Yes	No	Photo/Remarks
No. 0.00		General							
0.00		Is the current Environmental Per	rmit displayed cons	nicuously a	t all vehicle site				
0101		entrances/exits for public's inform		spicuously a	a all venicic site		\checkmark		
0.02		In ET I and an's last basis hand used	ile andible for incr	a ation al					
		Is ET Leader's log-book kept read	iny available for hisp	bections?			\checkmark		
		Construction Dust							
1.00	S4.8.1	Are dusty materials, such as exca		-			\checkmark		
1.01		materials, and exposed earth surface		-					
1.02	S4.8.1	Are screenings, enclosures, water		n cleaning de	evices provided to				
		dusty construction works for dust	suppression?				V		
1.03	S4.8.1	Are fumes or smoke emitting plan	ts or construction ac	tivities shiel	ded by a screen?	\checkmark			
1.04	S4.8.1	Are wheel-washing facilities with	high-pressure water	jets provide	d at all site exits?	✓			
1.05	S4.8.1	Is wheel-washing provided to all v	vehicles leaving the s	site?		✓			
1.06	S4.8.1	Are road section near the site exit	free from dusty mate	erial?			\checkmark		
1.07	S4.8.1	Are all main haul roads inside th	ne site paved or spra	ayed with w	vater to minimize				
		dust emission during vehicle move		5			\checkmark		
1.08	S4.8.1	Are water spraying provided imm	ediately prior to any	y loading or	transfer of dusty				
		materials?					\checkmark		
1.09	S4.8.1	Are covers provided to all dump t	rucks carrying dusty	v materials v	when entering and				
		leaving the site?					\checkmark		
1.10	S4.8.1	Are the working areas for uprooti	ing of trees, shrubs,	or vegetatio	on or the removal				
		of boulders, poles, pillars sprayed	with water to mainta	ain the entire	e surface wet?		\checkmark		
1.11	S4.8.1	Is exposed earth properly treated	d within six month	is after the	last construction				
		activity on site?							
1.12	S4.8.1	Does the operation of plants on sit	e free form dark smo	oke emissior	1?		\checkmark		
1.13	S4.8.1								
		Are vehicles travelling at speed no	ot exceeding 15km/h	r within the	site?		\checkmark		
1.14	S4.8.1	Are stock of more than 20 bags o	f cement or day PFA	A covered o	r sheltered on top		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.15	S4.8.1	and 3 sides? Are de-bagging, batching and mixing processes of bagged cement carried out in				
1.15	54.0.1	sheltered areas?	\checkmark			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas				
		accessible by the public?	\checkmark			
1.17	S4.8.1	Is open burning prohibited?		\checkmark		
2.00		Construction Noise (Airborne)				
2.01	S5.7	Are quiet plants adopted on site?		\checkmark		
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of				
		excessive noise?		\checkmark		
2.03	S5.7	Are plants throttled down or turned off when not in use?	\checkmark			
2.04	S5.7	Are the plants known to emit noise strongly in one direction oriented to face away				
		from NSRs?	v			
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	1			
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?		\checkmark		
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\checkmark		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?	\checkmark			
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	\checkmark			
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	✓			
2.11	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?		\checkmark		
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?	\checkmark			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?		\checkmark		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		
3.00		Water Quality				
3.01	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\checkmark		
3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?		\checkmark		
3.05	S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided				





	EIA ref.	ct no. 13/WSD/17 Design, Build and Operate First Stage of T				
tem Jo.	EIA ref.		N/A	Yes	No	Photo/Remarks
		to remove sand/silt particles from runoff?		\checkmark		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		
3.07	S6.9	Is the drainage system properly maintained?		✓	$\overline{\square}$	
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	✓			
3.09	\$6.9	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?		\checkmark		
.10	S6.9	Are temporary access roads protected by crushed gravel?	\checkmark			
3.11	S6.9	Are exposed slope surface properly protected?	✓			я
3.12	S6.9	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		\checkmark		
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?		\checkmark		
8.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		
8.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm drainage system?		\checkmark		
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?		\checkmark		
8.18	\$6.9	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		\checkmark		
3.19	S6.9	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		\checkmark		
.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		1		
.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		1		
.22	\$6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\checkmark		
.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		
.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?		\checkmark		
.25	S6.9	Is closed grab dredger used to reduce the potential leakage of sediments?	\checkmark			
.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	\checkmark			
.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab				





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
		dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m ³ closed				
		grab, 10-11 grab per hour for 6m3 closed grab?				
3.28	S6.9	Is the grab operated in slow and controlled manner such that the impact to seabed				
		by the grab when being lowered could be minimized? Is the operator ensured the				
		grab be properly closed before lifting the grab?	\checkmark			
3.29	S6.9	Is the maximum allowed dredging rate at the seawater intake limited to 750 m3/day				
		while the maximum allowed dredging rate at the submarine outfall is 3,500				
		m3/day?	\checkmark			
3.30	S6.9	Is dredged marine sediment disposed of in a gazetted marine disposal area in				
		accordance with marine dumping permit conditions of the Dumping at Sea				
		Ordinance (DASO)?	\checkmark			
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of				
		material during transport?	\checkmark			
3.32	S6.9	Are barges filled to a level which ensures that material does not spill over during		_	_	
		transport to the disposal site and that adequate freeboard is maintained to ensure			·	
		that the decks are not washed by wave action?	\checkmark			
3.33	S6 9	Are excess materials cleaned from decks and exposed fittings before the vessel is				
5.55	50.7	moved from the dredging area after dredging?	1			
3.34	\$6.0	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
5.54	50.9	litter or other objectionable matter to be present in the water within and adjacent				
		to the dredging site?	\checkmark			
3.35	560	When the dredged material has been unloaded at the disposal areas, is any material				
5.55	30.9	accumulated on the deck or other exposed parts of the vessel removed and placed in				
		the hold or a hopper?	\checkmark			
3.36	560	Is dredger maintained adequate clearance between vessels and the seabed at all				
5.50	50.9					
		states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from vessel movement or propeller wash?	\checkmark			
3.37	86.0					
3.37	\$6.9	Is the contractor shall regularly inspect the silt curtains and check that they are				
		moored and marked to avoid danger to marine traffic? Is regular inspection on the				
		integrity of the silt curtain carried out by the contractor and any damage to the silt	1			
		curtain shall be repaired by the contractor promptly?				
3.38	\$6.9	Are all vessels have a clean ballast system?	\checkmark			
3.39	86.0	Are all vessels well maintained and inspected before use to limit any potential				
5.59	50.9		\checkmark			
2.40	860	discharges to the marine environment?				
3.40	30.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially	\checkmark	\square		
2 41	86.0	contaminated area on working vessels should be minimized and collected?				
3.41	30.9	Is any soil waste disposed overboard?	\checkmark			
4.00		Waste Management				
4.01	S8.5	Is a trip-ticket system implemented to monitor the disposal of C&D and solid				
		wastes at public filling facilities and landfills?		\checkmark		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated,				-
		recycled and disposed of?		\checkmark		
4.02	C0 E	To the Contractor resistance of a chamical works and decay				





Item	EIA ref.	int ion soft besign, build and operate i not stage of i	N/A	Yes	No	Photo/Remarks
No.						
				\checkmark		
4.04	S8.5	Is chemical waste separated from other waste and collected by a licensed chemical		\checkmark		
4.05	585	waste collector?				
		Are trip tickets for chemical waste disposal available for inspection?		\checkmark		
4.06	S8.5	Is drip tray provided for chemical storage?		\checkmark		
4.07	S8.5	Are all containers for chemical waste properly labelled?		\checkmark		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and				
		properly labelled?		\checkmark		
4.09	S8.5	Are incompatible chemical wastes stored in different areas?		\checkmark		
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately				
		ventilated?		\checkmark		
4.11	S8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the				
		volume of the largest container or of 20% by volume of the chemical waste stored		<u>v</u>		
4.12		in that area, whichever is the greatest, provide? Are a routine cleaning and maintenance programme implemented for drainage				
7.12		systems, sump pits, and oil interceptors?		\checkmark		
4.13	58.5					
		Are sufficient general refuse disposal/collection points provided on site?		\checkmark		
4.14	S8.5	Is general refuse disposed of properly and regularly?		\checkmark		
4.15		Are appropriate measures adopted to minimize windblown litter and dust during				
		transportation of waste?		✓		
4.16		Are individual collectors for aluminum cans, plastic bottles and packaging material		./		
4.17		and office paper provided to encourage waste segregation?				
		Are C&D wastes sorted on site?		\checkmark		
4.18	S8.5	Are C&D waste disposed of properly?		\checkmark		Reminder 1
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity				
		of waste?		\checkmark		
4.20		Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\checkmark		
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage				
L		or contamination?		\checkmark		
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?		\checkmark		
5.00	S11.10	Landscape and Visual				
		Are Is site hoarding provided?	\checkmark			
5.02	S11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	11.11					
5.03	S11.10 &	Is construction light oriented away from the sensitive receivers?				
	11.11		V			
5.04	S11.10	Is grass hydroseeding provided to slopes as soon as the completion of works?				
	& 11.11					
5.05	S11.10 & 11.11	Are damages to trees outside site boundary due construction works avoided?		\checkmark		
5.06		Is excavation works carried out manually instead of machinery operation within 2.5m				
5.00		vicinity of any preserved trees?	\checkmark			
5.07	S11.10 &					
	11.11	Are the retained and transplanted tree(s) properly protected and in good conditions?		\checkmark		
5.08	S11.10 &	Are surgery works carried out for damaged trees?				
	11.11		\checkmark			
6.00	S9.7	Ecology				
6.01		Is site runoff properly treated to prevent any silly runoff?		\checkmark		
6.02	S9.7	Are silt trap installed and well-maintained?				
6.03	S9.7		√			
0.05	39.7	Are stockpiles properly covered to avoid generating silty runoff?		~		
6.04	S9.7					
		Are construction works restricted to works area which are clearly defined?		\checkmark		
6.05		For slope mitigation works within the Clear Water Bay Country Park, are tree felling and				
		damages to trees, the exact locations of the flexible barrier foundation plates, soil nails				
		and rock dowels adjusted during detailed design, and a setback distance from existing		✓		
6.06		trees is recommended to be maintained as far as practical? Are pruning of tree canopies along the alignment of the flexible barriers limited to a				
0.00	39.7	minimum?	\checkmark			
6.07	S9.7	Is the alignment of flexible barriers optimized to preserve all species of conservation				
		interest and minimize the impact to the existing vegetation as far as practicable? Are the				
		alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these				
		individuals?	•			
6.08		Is temporary fencing installed to fence off the concerned species either in groups of				
		individually within the works area and in the close proximity to prevent from being				
		damaged and disturbed during construction? Is a sign identifying the site attached to the fence and flagging tape shall be attached to the individuals to visualize their locations?	\checkmark			
6.09		Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or				
,		other flora species of conservation interest, if found) adjacent to the proposed alignment				
		of the flexible barriers prepared to protect the species?	Ň			
6.10	S9.7	Is any induction training provided to all site personnel in order to brief them on this flora				
		of conservation interest including the locations and their importance?		\checkmark		
6.11		Is the resident site supervisory staff closely monitor the conditions of concerned				
		individuals during construction of flexible barriers in the close proximity?		v		
6.12		Are fences erected along the boundary of the works area before the commencement of				
		works to prevent vehicle movements and encroachment of personnel onto adjacent	\checkmark		\square	
612		areas?				





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
		breached and that damage does not occur to surrounding areas?		\checkmark		
6.14	S9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal?		\checkmark		
6.15	S9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting?	1			
6.16	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro- seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works?	✓			
7.00 7.01	S12.7	Landfill Gas Hazard Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		\checkmark		
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		\checkmark		
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers?		\checkmark		
7.04	S12.7	Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade?		\checkmark		
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact?		✓		
7.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?		\checkmark		
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?		√		
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		\checkmark		
7.09	S12.7	Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?	1			
7.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?	 ✓ 			
7.11	\$12.7	Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit?	\checkmark			
7.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		\checkmark		
8.00 8.01		Overall Is the EM&A properly implemented in general?		\checkmark		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date: 22 Oct 2024 R. The contractor was rominded to chared the construction waste regularly. Rz. The contractor was reminded to display the NRMM label for the excavator. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: Andy 6-7) (Name: Drd (Name: (obyWar) (Name:) (Name:)





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date: _	28 October 2024	Inspected by:	ET:	Toby Wan Andy Leung		erek Lai erena Shel		: <u>W. P. Ho</u>
Inspect	ion Time: _	9:15							
Weath									
Condit	tion	Sunny	Overcast	Drizzle	Rain	Storm	Ha	azy	
Tempe	erature	28 °C	Humidity	✔ High	Moderate	Low			
Wind		Calm 🖌 Light	Breeze	Strong					
	-	_							
Item	EIA ref.					N/A	Yes	No	Photo/Remarks
No.									
0.00		General							
0.01		Is the current Environmental Peri		picuously a	t all vehicle site		\checkmark		
		entrances/exits for public's information	ation at any time?						
0.02		Is ET Leader's log-book kept readi	ly available for insp	ections?			\checkmark		
		Construction Dust							
1.00	S4.8.1	Are dusty materials, such as excav	vated materials, buil	lding debris	and construction				
1.01		materials, and exposed earth surfac	e properly covered t	to prevent d	ust emission?		<u> </u>		
1.02	S4.8.1	Are screenings, enclosures, water s	praying, or vacuum	cleaning de	vices provided to				
		dusty construction works for dust s	uppression?				\checkmark		
1.03	S4.8.1	Are fumes or smoke emitting plants	s or construction act	tivities shiel	ded by a screen?	✓			
1.04	S4.8.1	Are wheel-washing facilities with h	nigh-pressure water	jets provide	d at all site exits?				
1.05	S4.8.1	Is wheel-washing provided to all ve	chicles leaving the s	ite?					
1.06	S4.8.1								
		Are road section near the site exit f	ree from dusty mate	erial?			\checkmark		
1.07	S4.8.1	Are all main haul roads inside the	e site paved or spra	yed with w	ater to minimize				
		dust emission during vehicle mover	ment?				✓		
1.08	S4.8.1	Are water spraying provided imme materials?	ediately prior to any	loading or	transfer of dusty		\checkmark		
1.09	S4.8.1	Are covers provided to all dump tr	ucks carrying dusty	materials w	hen entering and				
		leaving the site?	, , , ,		C		\checkmark		
1.10	S4.8.1	Are the working areas for uprootir	ng of trees, shrubs.	or vegetatio	n or the removal				
		of boulders, poles, pillars sprayed v	0				\checkmark		
1.11	S4.8.1	Is exposed earth properly treated							
		activity on site?				\checkmark			
1.12	S4.8.1			,	0				
		Does the operation of plants on site	tree form dark smo	oke emission	1?		\checkmark		
1.13	S4.8.1	Are vehicles travelling at speed not	exceeding 15km/hr	within the	site?		\checkmark		
1.14	S4.8.1	Are stock of more than 20 bags of	cement or day PFA	A covered of	sheltered on top		✓		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.15	S4.8.1	and 3 sides? Are de-bagging, batching and mixing processes of bagged cement carried out in				
1.15	54.0.1	sheltered areas?	\checkmark			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas				
		accessible by the public?	\checkmark			
1.17	S4.8.1	Is open burning prohibited?		\checkmark		
2.00		Construction Noise (Airborne)				
2.01	S5.7	Are quiet plants adopted on site?		\checkmark		
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of				
		excessive noise?		\checkmark		
2.03	S5.7	Are plants throttled down or turned off when not in use?	\checkmark			
2.04	S5.7	Are the plants known to emit noise strongly in one direction oriented to face away				
		from NSRs?	v			
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	1			
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?		\checkmark		
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\checkmark		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?	\checkmark			
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	\checkmark			
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	✓			
2.11	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?		\checkmark		
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?	\checkmark			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?		\checkmark		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		
3.00		Water Quality				
3.01	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\checkmark		
3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?		\checkmark		
3.05	S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided				





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tem No.	EIA ref.		N/A	Yes	No	Photo/Remarks
		to remove sand/silt particles from runoff?		\checkmark		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		
3.07	S6.9	Is the drainage system properly maintained?		√		
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	~			
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?		\checkmark		
8.10	S6.9	Are temporary access roads protected by crushed gravel?	~			
3.11	S6.9	Are exposed slope surface properly protected?	✓			8
3.12	S6.9	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		\checkmark		
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?		\checkmark		
8.14	S6.9	Is runoff from wheel-washing facilities avoided?		✓		
.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		
8.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm drainage system?		\checkmark		
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?		\checkmark		
3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		\checkmark		
3.19	S6.9	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		\checkmark		
.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		1		
.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		✓		
.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\checkmark		
.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		
.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?		\checkmark		
3.25	\$6.9	Is closed grab dredger used to reduce the potential leakage of sediments?	\checkmark			
.26	\$6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	\checkmark			
.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab				





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
		dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m ³ closed				
		grab, 10-11 grab per hour for 6m3 closed grab?				
3.28	S6.9	Is the grab operated in slow and controlled manner such that the impact to seabed				
		by the grab when being lowered could be minimized? Is the operator ensured the				
		grab be properly closed before lifting the grab?	\checkmark			
3.29	S6.9	Is the maximum allowed dredging rate at the seawater intake limited to 750 m3/day				
		while the maximum allowed dredging rate at the submarine outfall is 3,500				
		m3/day?	\checkmark			
3.30	S6.9	Is dredged marine sediment disposed of in a gazetted marine disposal area in				
		accordance with marine dumping permit conditions of the Dumping at Sea				
		Ordinance (DASO)?	\checkmark			
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of				
		material during transport?	\checkmark			
3.32	S6.9	Are barges filled to a level which ensures that material does not spill over during		_	_	
		transport to the disposal site and that adequate freeboard is maintained to ensure		·		
		that the decks are not washed by wave action?	\checkmark			
3.33	S6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is				
		moved from the dredging area after dredging?	\checkmark			
3.34	\$6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
5.51	50.7	litter or other objectionable matter to be present in the water within and adjacent				
		to the dredging site?	\checkmark			
3.35	\$6.9	When the dredged material has been unloaded at the disposal areas, is any material				
5.55	50.7	accumulated on the deck or other exposed parts of the vessel removed and placed in				
		the hold or a hopper?	1			
3.36	\$6.9	Is dredger maintained adequate clearance between vessels and the seabed at all				
5.50	50.7	states of the tide and reduce operations speed to ensure that excessive turbidity is				
		not generated by turbulence from vessel movement or propeller wash?	\checkmark			
3.37	\$6.9	Is the contractor shall regularly inspect the silt curtains and check that they are				
5.57	50.7	moored and marked to avoid danger to marine traffic? Is regular inspection on the				
		integrity of the silt curtain carried out by the contractor and any damage to the silt				
		curtain shall be repaired by the contractor promptly?	\checkmark			
2 20	860	caraan shan be repaired by the contractor promptry :				
3.38	30.9	Are all vessels have a clean ballast system?	\checkmark			
3.39	S6.9	Are all vessels well maintained and inspected before use to limit any potential				
		discharges to the marine environment?	\checkmark			
3.40	S6.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially				
		contaminated area on working vessels should be minimized and collected?	\checkmark			
3.41	S6.9					
5.71		Is any soil waste disposed overboard?	\checkmark			
4.00		Waste Management				
4.01	S8.5	Is a trip-ticket system implemented to monitor the disposal of C&D and solid				
		wastes at public filling facilities and landfills?		\checkmark		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated,				
		recycled and disposed of?		\checkmark		
4.02	C0 E	To the Contractor resistance of an abore interior and decord				





Item	EIA ref.	int ion soft besign, build and operate i not stage of i	N/A	Yes	No	Photo/Remarks
No.						
				\checkmark		
4.04	S8.5	Is chemical waste separated from other waste and collected by a licensed chemical		\checkmark		
4.05	585	waste collector?				
		Are trip tickets for chemical waste disposal available for inspection?		\checkmark		
4.06	S8.5	Is drip tray provided for chemical storage?		\checkmark		
4.07	S8.5	Are all containers for chemical waste properly labelled?		\checkmark		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and				
		properly labelled?		\checkmark		
4.09	S8.5	Are incompatible chemical wastes stored in different areas?		\checkmark		
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately				
		ventilated?		\checkmark		
4.11	S8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the				
		volume of the largest container or of 20% by volume of the chemical waste stored		V		
4.12		in that area, whichever is the greatest, provide? Are a routine cleaning and maintenance programme implemented for drainage				
4.12		systems, sump pits, and oil interceptors?		\checkmark		
4.13	58.5					
		Are sufficient general refuse disposal/collection points provided on site?		\checkmark		
4.14	S8.5	Is general refuse disposed of properly and regularly?		\checkmark		
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during				
		transportation of waste?		\checkmark		
4.16		Are individual collectors for aluminum cans, plastic bottles and packaging material				
4 17		and office paper provided to encourage waste segregation?		V		
4.17	88.5	Are C&D wastes sorted on site?		\checkmark		
4.18	S8.5	Are C&D waste disposed of properly?		\checkmark		Reminder 1
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity				
		of waste?		\checkmark		
4.20		Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\checkmark		
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage				
L		or contamination?		\checkmark		
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?		\checkmark		
5.00	S11.10	Landscape and Visual				
		Are Is site hoarding provided?	\checkmark			
5.02	S11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	11.11					
5.03	S11.10 &	Is construction light oriented away from the sensitive receivers?				
	11.11		V			
5.04	S11.10	Is grass hydroseeding provided to slopes as soon as the completion of works?				
	& 11.11		•			
5.05	S11.10 &	Are damages to trees outside site boundary due construction works avoided?		1		
5.06	11.11			•		
5.06		Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	\checkmark			
5.07	S11.10 &					
5.07	11.11 a	Are the retained and transplanted tree(s) properly protected and in good conditions?		\checkmark		
5.08		Are surgery works carried out for damaged trees?				
5.08	11.11 a	Are surgery works carried out for damaged rees:	1			
6.00		Ecology				
6.01		Is site runoff properly treated to prevent any silly runoff?		\checkmark		
6.02	S9.7				1	
		Are silt trap installed and well-maintained?	\checkmark			
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?				
				\checkmark		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?		1		
6.05	S9.7	For slope mitigation works within the Clear Water Bay Country Park, are tree felling and				
0.05		damages to trees, the exact locations of the flexible barrier foundation plates, soil nails				
		and rock dowels adjusted during detailed design, and a setback distance from existing				
		trees is recommended to be maintained as far as practical?		\checkmark		
6.06	S9.7	Are pruning of tree canopies along the alignment of the flexible barriers limited to a				
		minimum?	\checkmark			
6.07	S9.7	Is the alignment of flexible barriers optimized to preserve all species of conservation				
		interest and minimize the impact to the existing vegetation as far as practicable? Are the				
		alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these	\checkmark			
		individuals?				
6.08		Is temporary fencing installed to fence off the concerned species either in groups of				
		individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction? Is a sign identifying the site attached to the				
		fence and flagging tape shall be attached to the individuals to visualize their locations?	\checkmark			
6.09		Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or				
		other flora species of conservation interest, if found) adjacent to the proposed alignment				
		of the flexible barriers prepared to protect the species?	L V			
6.10	S9.7	Is any induction training provided to all site personnel in order to brief them on this flora				
		of conservation interest including the locations and their importance?		\checkmark		
6.11	S9.7	Is the resident site supervisory staff closely monitor the conditions of concerned				
		individuals during construction of flexible barriers in the close proximity?		\checkmark		
6.12	S9.7	Are fences erected along the boundary of the works area before the commencement of				
		works to prevent vehicle movements and encroachment of personnel onto adjacent				
		areas?				
612	507	To maxilow checks of the moult site houndaries nonformed to ensure that them are not				





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
		breached and that damage does not occur to surrounding areas?		\checkmark		
6.14	S9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal?		\checkmark		
6.15	S9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting?	1			
6.16	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro- seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works?	✓			
7.00 7.01	S12.7	Landfill Gas Hazard Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		\checkmark		
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		\checkmark		
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers?		\checkmark		
7.04	S12.7	Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade?		\checkmark		
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact?		\checkmark		
7.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?		\checkmark		_
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?		1		
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		\checkmark		
7.09	S12.7	Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?	\checkmark			
7.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?	\checkmark			
7.11	S12.7	Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit?	 			
7.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		\checkmark		
8.00 8.01		Overall Is the EM&A properly implemented in general?		\checkmark		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Daite: 28 Oct 2024 P.1: The Contractor was reminded duct suppression mitigation measure should be provided to the stockpile. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative $\sqrt{}$ Representative Representative (Name: Andy Len) (Name to WILI PON) (Name: ኖ) (Name: j (Name:Serenn shek Wan)



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Appendix I

Complaint Log

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Statistical Summary of Environmental Complaints

	Environmental Complaint Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
1 - 31 Oct 2024	0	2	N/A		

Statistical Summary of Environmental Summons

Descenting Devised	Environmental Summons Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 – 31 Oct 2024	0	0	N/A		

Statistical Summary of Environmental Prosecution

Devention Devia d	Environmental Prosecution Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 – 31 Oct 2024	0	0	N/A		

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