





Contract No. 13/WSD/17

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

Monthly EM&A Report No.52 (Period from 1 June to 30 June 2024)

Document No.						
ASCL	ASCL / 200168078 / MEMAR52 / 4					
Publisher		Project Code Sequential No. Revisi		Revision Index		

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Date:	12 July 2024		



Our ref.: LES/J2024-01/CS/L024 Date : 12 July 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 May

<u>2024</u>

Referring to the Monthly Environmental Monitoring and Audit Report (June 2024) Rev.4.0 as submitted by the Environmental Team on 12 June 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 Aurecon (Attn.: Raymond Kok) (Attn.: Toby Wan) By E-mail By E-mail





REVISION HISTORY

Rev.	DESCRIPTION OF MODIFICATION	DATE		
1.	First Issue for Comments	08/07/2024		
2.	Revised According to Comments	11/07/2024		
3.	Revised According to Comments	12/07/2024		
4.	Revised According to Comments 12/07/2			





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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 52nd 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 June to 30 June 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:

Administration Building

- Installation of false ceiling
- Installation of aluminum fins at external wall
- Installation of aluminum cladding at glass wall
- Installation of wood decking
- Installation of wall feature
- Installation of floor finishing
- Minor Installation of building services, cable laying and termination, T&C

Chemical building

• Defect rectification

Main Electrical & Central Chiller Plant Building

• Minor Installation of building services, electrical switchboard, cable laying, pressure test

ActiDAFF

• Installation of security gates

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• Minor Installation of mechanical equipment, building services, minor cable l and termination, Installation of Fibre Reinforced Polymer Cover, Test	
Commissioning	U
 Product Water Storage Tank Building Tiling work at Roof Slab on Tank Minor Installation of building services, cable laying and termination, Test Commissioning OSCG Building 	ing &
 Installation of Cat ladder on Brine Maker Tank Installation of Railing on Brine Maker Tank Opening Seal Up Minor Installation of building services and pipework, cable laying termination, T&C 	g and
 Reverse Osmosis Building Sanitary Ware Installation in Toilet Opening Seal Up Minor Installation of building services, cable laying and termination, T& Panel Installation 	έC, PV
 Post Treatment Building Installation of Cover on Sludge Thickener Pit Green Roof Minor Installation of building services, Minor Installation of pipework, laying and termination 	Cable
 Inspection corridor Interior fitting out works Installation of cat ladder on roof of inspection corridor 	
 Combined Shaft and Pump room T&C Installation of outfall grating and defect rectification 	
 Guard House Defect rectification Minor cable laying and termination 	
Other Watermain installation works at CLP 132 Kv Substation Underground utility rectification work for Manhole and Draw pit Underground utility Construction Work for Watermain water Underground utility repair Work for sampling pipe Underground utility repair Work for watermains work 	

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- Light Pole installation work
- Road Construction
- Footpath Construction
- Landscape Construction
- Irrigation System installation
- Landscape planting work
- Traffic signage pole installation
- Cladding installation for elevated walkway
- Workshop construction
- A6. The major environmental impacts brought by the above construction works include:
 - Construction dust and noise generation from construction works and excavation 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. The EM&A works for Pre-operation phase marine water quality were conducted during the reporting period in accordance with the EM&A Manual. Six (6) of the pre-operation phase water quality monitoring results of SS obtained had exceeded the Action Level. Twenty-three (23) of the pre-operation phase water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level.
- A11. 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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- A12. Pre-operation phase coral monitoring works was conducted on 17 June 2024. No sediment, bleaching or increased mortality in the general condition of all tagged coral colonies were observed during the monthly pre-operation phase monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period. The detail of the monitoring is presented in **Appendix I**
- A13. Pre-operation phase fishery monitoring for dry season 2024 was carried out on 17 and 24 February 2024. The detail of the monitoring is presented in the 50th Monthly EM&A Report.
- A14. In this reporting period, 45 times of landfill gas monitoring were periodically conducted at TKO Area 137 (Ch1+120 Ch1+800) until 20 April 2024. No exceedances of action level and limit level was observed.
- A15. Joint site inspections of the construction work by ET and IEC were carried out on 24 June 2024 to audit the mitigation measures implementation status. Reminders were recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

COMPLAINT HANDLING AND PROSECUTION

A16. No environmental complaint, notification of summons and prosecution was received in the reporting period.

REPORTING CHANGE

A17. There was no change to be reported that may affect the on-going EM&A programme.

SUMMARY OF UPCOMING KEY ISSUES AND KEY MITIGATION MEASURES

A18. Key activities anticipated in the next reporting period for the Contract will include the followings:

Administration Building

- Installation of false ceiling
- Installation of aluminum fins at external wall
- Installation of aluminum cladding at glass wall
- Installation of wood decking
- Installation of wall feature
- Installation of floor finishing
- Minor Installation of building services, cable laying and termination, T&C

Chemical building

• Defect rectification





Main Electrical & Central Chiller Plant Building
 Minor Installation of building services, electrical switchboard, cable laying, pressure test
ActiDAFF
Installation of security gates
 Minor Installation of mechanical equipment, building services, minor cable laying
and termination, Installation of Fibre Reinforced Polymer Cover, Testing &
Commissioning
Product Water Storage Tank Building
Tiling work at Roof Slab on Tank
• Minor Installation of building services, cable laying and termination, Testing &
Commissioning
OSCG Building
Installation of Cat ladder on Brine Maker Tank
Installation of Railing on Brine Maker Tank
Opening Seal Up
• Minor Installation of building services and pipework, cable laying and
termination, T&C
Reverse Osmosis Building
Sanitary Ware Installation in Toilet
Opening Seal Up
• Minor Installation of building services, cable laying and termination, T&C, PV
Panel Installation
Post Treatment Building
 Installation of Cover on Sludge Thickener Pit
Green Roof
• Minor Installation of building services, Minor Installation of pipework, Cable
laying and termination
Inspection corridor
Interior fitting out works
Installation of cat ladder on roof of inspection corridor
Combined Shaft and Pump room
• T&C
Installation of outfall grating and defect rectification
Guard House
Defect rectification
Minor cable laying and termination
Other Watermain installation works at CLD 122 Ky Substation
Watermain installation works at CLP 132 Kv Substation





- Underground utility rectification work for Manhole and Draw pit
- Underground utility Construction Work for Watermain water
- Underground utility repair Work for sampling pipe
- Underground utility repair Work for watermains work
- Light Pole installation work
- Road Construction
- Footpath Construction
- Landscape Construction
- Irrigation System installation
- Landscape planting work
- Traffic signage pole installation
- Cladding installation for elevated walkway
- Workshop construction
- A19. 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.
- A20. 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; and
 - Deployment protective fencing for trees.



aurecon

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.

THE REPORTING SCOPE

1.4. This is the 52nd Monthly EM&A Report for the Contract which summarizes the key findings of the EM&A programme during the reporting period from 1 June to 30 June 2024.

CONTRACT ORGANIZATION

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

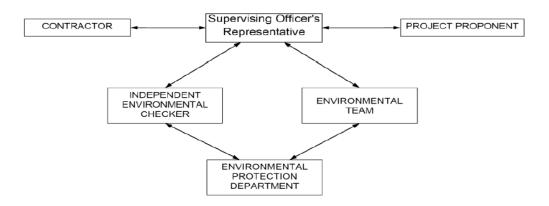


Figure 1.1 Contract Organization Chart

1.6. 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	Milton Law	2634-3573
Supervising Officer	Project Manager	Christina Ko	2608-7302
(Binnies Hong Kong Limited)	Chief Resident Engineer	Roger Wu	6343-1002
	Project Manager	Stephen Yeung	2807-4665
The Jardine Engineering Corporation, Limited, China State Construction Engineering (Hong Kong) Limited and Acciona Agua,	Environmental Monitoring Manager	Brian Kam	9456-9541
S.A. Trading	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

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

Administration Building

- Installation of false ceiling
- Installation of aluminum fins at external wall
- Installation of aluminum cladding at glass wall
- Installation of wood decking
- Installation of wall feature
- Installation of floor finishing
- Minor Installation of building services, cable laying and termination, T&C

Chemical building

• Defect rectification





- Main Electrical & Central Chiller Plant Building
- Minor Installation of building services, electrical switchboard, cable laying, pressure test

ActiDAFF

- Installation of security gates
- Minor Installation of mechanical equipment, building services, minor cable laying and termination, Installation of Fibre Reinforced Polymer Cover, Testing & Commissioning

Product Water Storage Tank Building

- Tiling work at Roof Slab on Tank
- Minor Installation of building services, cable laying and termination, Testing & Commissioning

OSCG Building

- Installation of Cat ladder on Brine Maker Tank
- Installation of Railing on Brine Maker Tank
- Opening Seal Up
- Minor Installation of building services and pipework, cable laying and termination, T&C

Reverse Osmosis Building

- Sanitary Ware Installation in Toilet
- Opening Seal Up
- Minor Installation of building services, cable laying and termination, T&C, PV Panel Installation

Post Treatment Building

- Installation of Cover on Sludge Thickener Pit
- Green Roof
- Minor Installation of building services, Minor Installation of pipework, Cable laying and termination

Inspection corridor

- Interior fitting out works
- Installation of cat ladder on roof of inspection corridor





Combined Shaft and Pump room

- T&C
- Installation of outfall grating and defect rectification

Guard House

- Defect rectification
- Minor cable laying and termination

Other

- Watermain installation works at CLP 132 Kv Substation
- Underground utility rectification work for Manhole and Draw pit
- Underground utility Construction Work for Watermain water
- Underground utility repair Work for sampling pipe
- Underground utility repair Work for watermains work
- Light Pole installation work
- Road Construction
- Footpath Construction
- Landscape Construction
- Irrigation System installation
- Landscape planting work
- Traffic signage pole installation
- Cladding installation for elevated walkway
- Workshop construction
- 1.9. A summary of the valid permits, licences, and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.

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

Permit/	Valid 1	Period	Statu	Remark	
Licences	From	То	Statu		
Environmental F	Permit				
EP- 503/2015/A	Throughout the Contract		Valid	-	
FEP – 01/503/2015/ A	Throughout	the Contract	Valid	-	
EP-503/2015/B	Throughout the Contract		Valid	-Issued on 3 April 2024	
FEP – 01/503/2015/ B	Throughout the Contract		Valid	-Issued on 3 April 2024	
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA)					

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Permit/	Valid 1	Period	Statu			
Licences	From	То	s	Remark		
451539	Throughout	the Contract	Valid	-		
Billing Account f	for Disposal of	f Construction	Waste			
7036276	Throughout	the Contract	Valid	-		
Sludge (Special V	Waste) Dispos	al (Admission	n Ticket)			
17674	04/01/202 4	30/06/202 4	Valid	-		
Chemical Waste	Producer Reg	istration				
5213-839- A2987-01	Throughout the Contract Valid -					
Wastewater Dise	Wastewater Discharge Licence (Land and Marine works)					
WT00035775- 2020	23/08/202 1	31/07/202 5	Valid	-		
WT00044188- 2023	16/06/202 3	30/06/202 8	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/D1358/462874). 		
Construction Noise Permit						
GW-RE1514-23	22/12/202 3	21/06/202 4	Valid	-		
GW-RE0667-24	22/06/202 4	20/12/202 4	Valid	-		

1.10. The status for all environmental aspects is presented in **Table 1.3**.

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

Parameters				Status
Water Qualit	ty			
Baseline Mo Manual	onitoring	under	EM&A	The baseline water quality monitoring was conducted between 12 May 2020 to 6 Jun 2020.
Construction Phase Impact Monitoring		toring	Ceased from 1 September 2023	

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Parameters	Status		
Pre-operation phase Marine Impact Monitoring	On-going		
Impact Monitoring of Effluent Discharge from Main Disinfection	Completed		
Noise			
Baseline Monitoring	Completed The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4 Completed On-going On-going On-going On-going		
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)			
Pre-operation phase Regular Coral Monitoring (Monthly)	On-going		
Ecology (Fishery)			
Pre-operation phase Regular Fishery Monitoring (Seasonally)	On-going		
Ecology (Landscape)			
Pre-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		

- 1.11. 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.
- 1.12. 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 and the Pre-operation phase of the Contract during the reporting period is provided in **Appendix C**.



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)	$\begin{array}{c} \mbox{Continuously in} \\ L_{eq \ 5min}/L_{eq \ 30min} \mbox{ (average} \\ \mbox{of 6 consecutive } L_{eq \ 5min} \mbox{)} \end{array}$	L _{eq 30min} L _{10 30min} & L _{90 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.

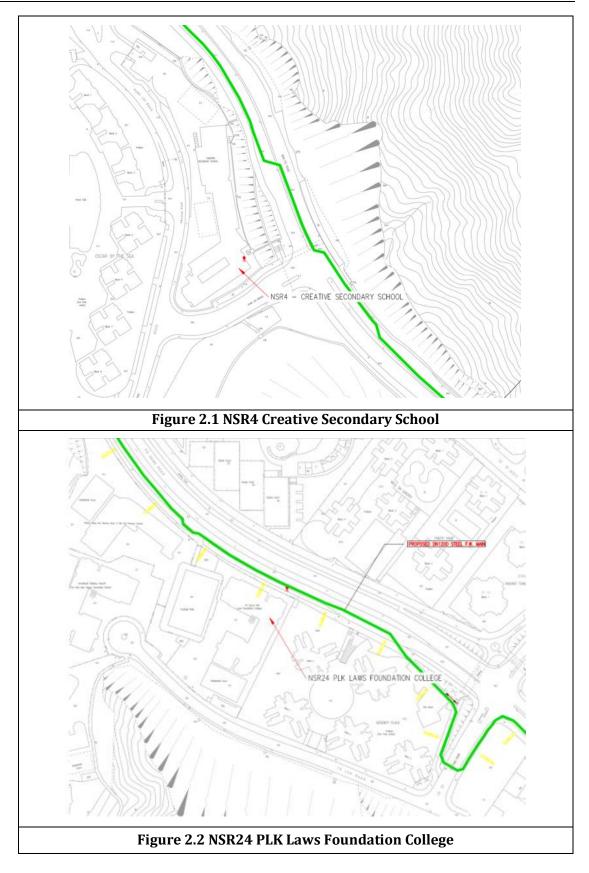
NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR 4	Creative Secondary School	Roof Floor	1 m from facade
NSR 24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-field
NSR 31	School of Continuing and Professional Studies - CUHK	Roof Floor	1 m from facade

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**.

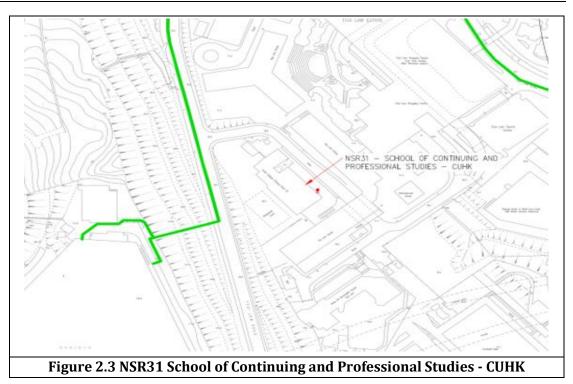












IMPACT MONITORING METHODOLOGY

- 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 2.3	Action 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 E.**

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.

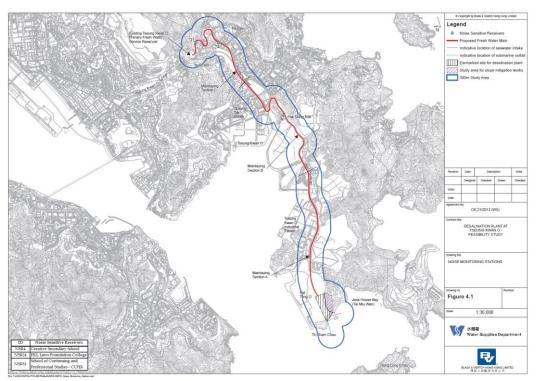


Figure 2.4 Site Layout Plan with Noise Sensitive Receivers and Desalination Plant

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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 Pre-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:

17





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 quality monitoring							
Parameters	Standard Methods	ethods Detection Limit		Precision			
Dissolved oxygen	Instrumental, CTD	0.1	-	±25%			
Temperature	Instrumental, CTD	0.1	-	±25%			
рН	Instrumental, CTD	0.1	-	±25%			
Turbidity	Instrumental, CTD	tal, 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.



aurecon



3.12. The pre-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, \sim 200m west of outfall diffuser
NF2	846942	813614	Edge of Mixing zone, \sim 200m east of outfall diffuser
NF3	846742	813414	Edge of Mixing zone, \sim 200m south of outfall diffuser

Table 3.3	Location of Impact Water Quality Monitoring Stations
Table 010	Location of impact water Quanty Monitoring Stations

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.





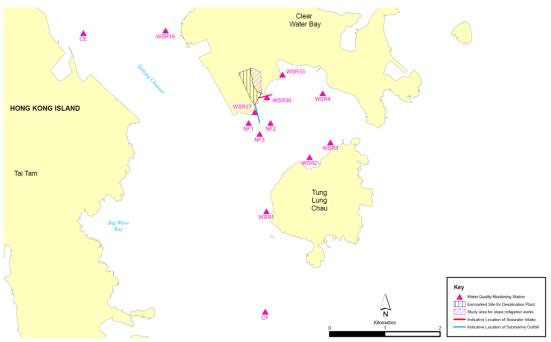


Figure 3.1 Impact water quality monitoring locations under EM&A Manual

SAMPLING FREQUENCY

Pre-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

Pre-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.





Table 3.4Derived Action and Limit Levels for Water Quality

Parameters	Action	Limit
Pre-operatio	n phase Impact Monitoring	<u>.</u>
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
	Tung Lung Chau Fish Culture Zone	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		
tes:		1

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.

Pre-operation phase

- 3.18. Considering the first testing and commissioning(T&C) phase of Tseung Kwan O Desalination Plant was started in the reporting period, additional marine water quality monitoring was conducted at the thirteen monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2 and NF3) from 12 December 2023. The Action and Limit Level would be referred to the approved EM&A Manual Table 5.4 First-year Operation Phase Marine Water Monitoring
- 3.19. The additional marine water quality monitoring was conducted at the thirteen monitoring stations on 4, 6, 8, 11, 13, 15, 18, 20, 22, 25, 27 and 29 June 2024.
- 3.20. Six (6) of the pre-operation phase water quality monitoring results of SS obtained had exceeded the Action Level. Twenty-three (23) of the pre-operation phase water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level.
- 3.21. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 8, 11, 13, 20, 27, and 29 June 2024 were concluded to be unrelated to the Contract as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix L**.
- 3.22. Monitoring results of 8 key parameters: Salinity, DO, turbidity, SS, pH, temperature, Total Residual Chlorine and Iron in this reporting, are summarized in **Table 3.5**, and detailed results are presented in **Appendix G**.



Table 3.5Summary of Impact Water Quality Monitoring Results

						Paramete	ers			
Locations		Salinity	Dissolved Oxygen (mg/L)			Turbidity	Suspended Solids	Temp.	TRC	Iron
		(ppt)	Surface & Middle	Bottom	рн	pH (NTU)	(mg/L)	(°C)	(mg/L)	(mg/L)
	Avg.	32.63	8.78	8.77	8.19	2.30	3.81	26.41	< 0.01	<0.1
CE	Min.	31.83	7.82	7.82	7.96	1.92	3.00	25.97	< 0.01	<0.1
	Max.	33.35	9.51	9.48	8.37	2.72	7.00	27.14	< 0.01	<0.1
	Avg.	32.45	8.62	8.63	8.20	2.32	3.66	26.44	< 0.01	<0.1
CF	Min.	31.72	8.12	8.12	8.02	1.84	2.50	25.87	< 0.01	<0.1
	Max.	33.20	9.19	9.15	8.35	2.59	10.00	26.93	< 0.01	<0.1
	Avg.	32.68	8.64	8.64	8.24	1.89	4.29	26.45	< 0.01	<0.1
WSR1	Min.	31.36	8.07	8.08	8.11	1.38	3.00	25.82	< 0.01	<0.1
	Max.	33.60	9.30	9.32	8.39	2.17	7.00	27.02	< 0.01	<0.1
	Avg.	32.79	8.69	8.69	8.24	1.91	3.22	26.43	< 0.01	<0.1
WSR2	Min.	31.70	8.06	8.00	8.03	1.34	3.00	26.01	< 0.01	<0.1
	Max.	33.74	9.29	9.33	8.47	2.23	4.00	27.14	< 0.01	<0.1
	Avg.	32.61	8.50	8.50	8.23	1.72	3.35	26.48	< 0.01	<0.1
WSR3	Min.	31.44	8.08	8.09	8.06	1.28	3.00	25.90	< 0.01	<0.1
	Max.	33.58	9.06	9.09	8.37	2.14	4.00	26.89	< 0.01	<0.1
	Avg.	32.63	8.77	8.79	8.26	1.78	5.95	26.35	< 0.01	<0.1
WSR4	Min.	31.47	7.98	7.97	8.01	1.33	3.00	25.77	< 0.01	<0.1
	Max.	33.27	9.61	9.66	8.41	2.23	9.00	26.95	< 0.01	<0.1
	Avg.	32.76	8.63	8.62	8.23	1.76	4.97	26.44	< 0.01	<0.1
WSR16	Min.	32.10	8.03	7.99	7.97	1.45	3.00	25.77	< 0.01	<0.1
	Max.	33.34	9.26	9.18	8.43	2.23	9.00	27.00	< 0.01	<0.1

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		Parameters								
Locations		Salinity (ppt)	Dissolved Oxygen (mg/L)			Turbidity	Suspended Solids	Temp.	TRC	Iron
			Surface & Middle	Bottom	рН	(NTU)	(mg/L)	(°C)	(mg/L)	(mg/L)
	Avg.	32.65	8.62	8.62	8.19	1.72	4.04	26.42	<0.01	<0.1
WSR33	Min.	31.96	7.98	7.97	8.06	1.31	3.00	25.87	< 0.01	<0.1
	Max.	33.29	9.14	9.17	8.33	2.08	6.00	27.13	< 0.01	<0.1
	Avg.	32.65	8.72	8.72	8.19	1.63	3.69	26.42	< 0.01	<0.1
WSR36	Min.	31.76	7.91	7.93	8.03	1.23	3.00	25.82	< 0.01	<0.1
	Max.	33.83	9.39	9.44	8.36	2.01	6.00	27.15	< 0.01	<0.1
	Avg.	32.75	8.86	8.84	8.23	1.77	4.50	26.41	< 0.01	<0.1
WSR37	Min.	31.72	8.21	8.04	8.08	1.45	3.00	25.82	< 0.01	<0.1
	Max.	33.61	9.46	9.44	8.42	2.20	6.00	26.94	< 0.01	<0.1
	Avg.	32.83	8.60	8.60	8.23	1.77	5.00	26.39	< 0.01	<0.1
NF1	Min.	31.95	8.10	8.07	8.07	1.25	2.50	25.91	< 0.01	<0.1
	Max.	33.58	9.25	9.27	8.40	2.30	8.00	27.15	< 0.01	<0.1
	Avg.	32.67	8.68	8.69	8.26	1.79	3.20	26.44	< 0.01	<0.1
NF2	Min.	31.76	7.83	7.85	8.04	1.33	3.00	25.79	< 0.01	<0.1
	Max.	33.71	9.64	9.64	8.43	2.14	5.00	27.02	< 0.01	< 0.1
	Avg.	32.89	8.73	8.72	8.22	1.71	6.02	26.38	< 0.01	< 0.1
NF3	Min.	31.86	8.22	8.31	8.04	1.25	3.00	25.91	< 0.01	< 0.1
	Max.	33.97	9.48	9.45	8.36	2.50	9.00	26.79	< 0.01	<0.1

Notes:

i. "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-flood and mid-ebb tides at three water depths, except that of D0 where the data for "Surface & Middle" and "Bottom" are calculated separately.

ii. Measurement data of Suspending Solids would be rounding to 2.5mg/L if the value was less than 2.5mg/L to facilitate data analysing.



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 H**.

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

	Actu	al Quantities	Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of C&D Wastes Generated Monthly				
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)
Jun 2024	61.720	0.000	0.000	0.000	49.190	0.000	0.000	0.002	0.000	0.000	60.780

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**.



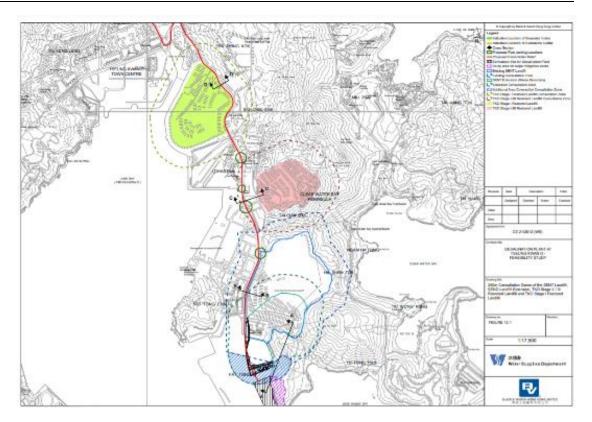


Figure 5.1 Overview of the SENT Extension Consultation Zone and the Contract Site Area

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% O ₂	<19% O ₂		
Methane (CH ₄)	>10% LEL	>20% LEL		
Carbon Dioxide (CO ₂)	>0.5% CO ₂	>1.5% CO ₂		

 Table 5.1
 Action 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 F**.

Table 5.2Landfill Gas Monitoring Equipment

Equipment	Brand and Model	Calibration Expiry Date		
Portable Gas Detector	GMI PS500 – 25492809/21	21 August 2024		

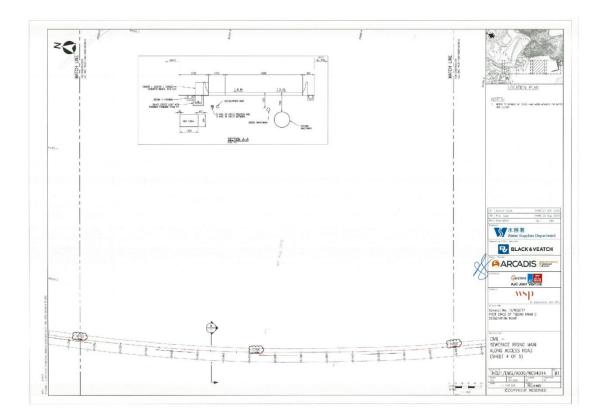


Figure 5.2 Location Map for Landfill Gas Monitoring at TKO Area 137 (-0+440 - -0+760)

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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, 45 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 30 June 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 E.**



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 pre-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 pre-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.

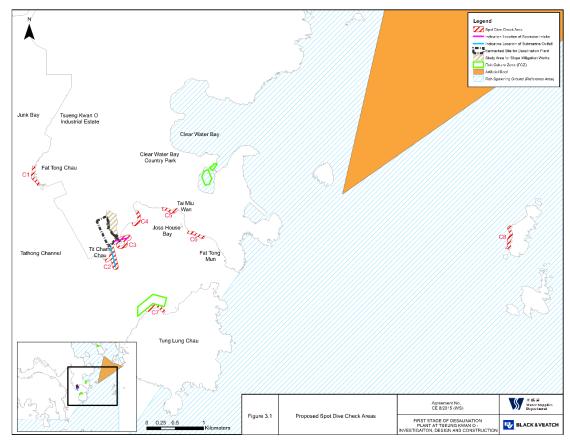


Figure 7.1 Spot Dive Check Areas Two Proposed Indirect Impact Sites (C2 and C3) and one control site (C8) during pre-operation Phase

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

MONITORING FREQUENCY

7.5. Pre-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. Pre-operation phase coral monitoring works was conducted on 17 June 2024. No sediment, bleaching or increased mortality in the general condition of all tagged coral colonies were observed during the monthly pre-operation phase monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period.
- 7.7. The details of the monitoring carried out on 17 June 2024 is presented in **Appendix I**.



8. ECOLOGY (FISHERY MONITORING)

8.1. The purpose of the pre-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**.





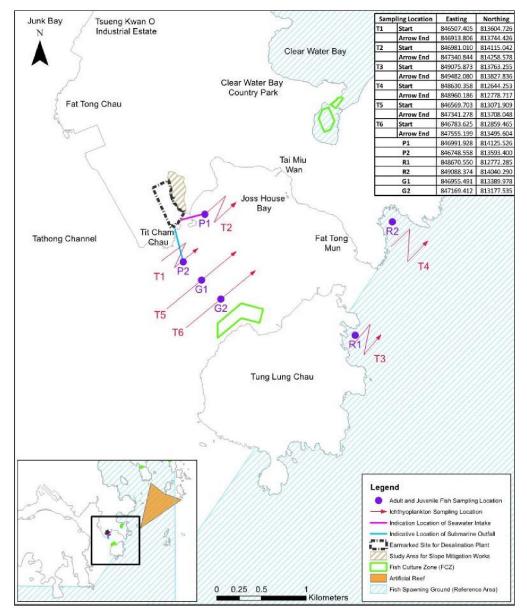


Figure 8.1 Monitoring location of regular fishery monitoring during pre-operation Phase

MONITORING FREQUENCY

- 8.7. Pre-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. Pre-operation phase fishery monitoring for dry season 2024 was carried out on 17 and 24 February 2024. The detail of the monitoring was presented in the 50th EM&A Monthly 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**:

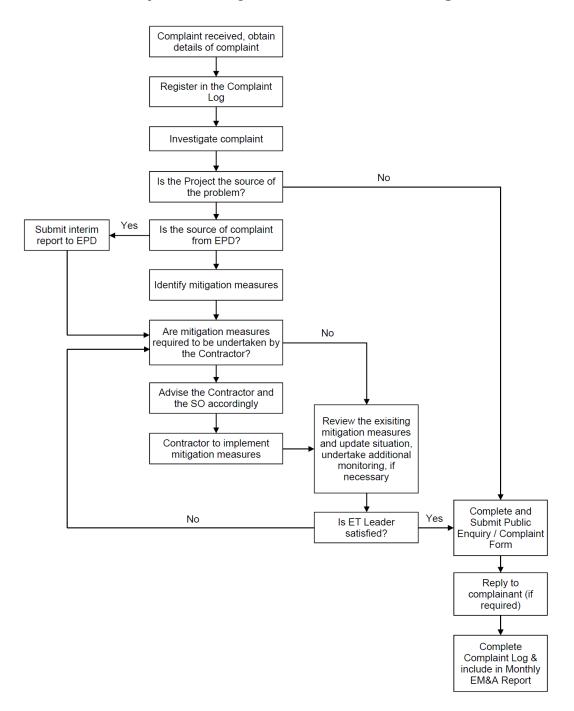


Figure 9.1 Environmental Complaint Handling Procedures



- 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. Pre-operation phase EM&A works for water quality were conducted at the thirteen monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 NF1, NF2 and NF3) during the reporting period in accordance with the EM&A Manual
- 9.5. The additional marine water quality monitoring was conducted at the thirteen monitoring stations on 4, 6, 8, 11, 13, 15, 18, 20, 22, 25, 27 and 29 June 2024.
- 9.6. Six (6) of the pre-operation phase water quality monitoring results of SS obtained had exceeded the Action Level. Twenty-three (23) of the pre-operation phase water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. After investigation, all exceedances were concluded unrelated to the Project.
- 9.7. Pre-operation phase coral monitoring works was conducted on 17 June 2024. No sediment, bleaching or increased mortality in the general condition of all tagged coral colonies were observed during the monthly pre-operation phase monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period.
- 9.8. Pre-operation phase fishery monitoring for dry season 2024 was carried out on 17 and 24 February 2024. The detailed of the monitoring was presented in the 50th EM&A Monthly Report.
- 9.9. In this reporting period, 45 times of landfill gas monitoring were periodically conducted at TKO Area 137 (Ch1+120 Ch1+800) until 20 April 2024. No exceedances of action level and limit level was observed.
- 9.10. No environmental complaint, notification of summons and prosecution Statistics on complaint and notification of summons and prosecution are summarized in **Appendix K**.



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 4, 11, 18 and 24 June 2024 at the site portions listed in **Table 10.1** below.

	-	
Date	Inspected Site Portion	Time
4 June 2024	TKO Area 137	14:30 - 15:30
11 June 2024	TKO Area 137	14:30 - 15:30
18 June 2024	TKO Area 137	14:30 - 15:30
24 June 2024	TKO Area 137	09:15 - 12:30

Table 10.1Summaries of Site Inspection Record

- 10.2. Joint site inspections with IEC was carried out on 24 June 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**.

Date	Environmental Observations	Follow-up Status
4 June 2024	No major environmental deficiency was observed.	N/A
11 June 2024	No major environmental deficiency was observed.	N/A
18 June 2024	Water spray should be provided during breaking.	Water spray was provided.
24 June 2024	No major environmental deficiency was observed.	N/A

Table 10.2Site Observations

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 J**.



11. FUTURE KEY ISSUES

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

Administration Building	
-------------------------	--

- Installation of false ceiling
- Installation of aluminum fins at external wall
- Installation of aluminum cladding at glass wall
- Installation of wood decking
- Installation of wall feature
- Installation of floor finishing
- Minor Installation of building services, cable laying and termination, T&C

Chemical building

- Defect rectification
- Main Electrical & Central Chiller Plant Building
- Minor Installation of building services, electrical switchboard, cable laying, pressure test

ActiDAFF

- Installation of security gates
- Minor Installation of mechanical equipment, building services, minor cable laying and termination, Installation of Fibre Reinforced Polymer Cover, Testing & Commissioning

Product Water Storage Tank Building

- Tiling work at Roof Slab on Tank
- Minor Installation of building services, cable laying and termination, Testing & Commissioning

OSCG Building

- Installation of Cat ladder on Brine Maker Tank
- Installation of Railing on Brine Maker Tank
- Opening Seal Up
- Minor Installation of building services and pipework, cable laying and termination, T&C

Reverse Osmosis Building

- Sanitary Ware Installation in Toilet
- Opening Seal Up
- Minor Installation of building services, cable laying and termination, T&C, PV Panel Installation

Post Treatment Building

- Installation of Cover on Sludge Thickener Pit
- Green Roof
- Minor Installation of building services, Minor Installation of pipework, Cable laying and termination

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Inspection corridor

- Interior fitting out works
- Installation of cat ladder on roof of inspection corridor

Combined Shaft and Pump room

- T&C
- Installation of outfall grating and defect rectification

Guard House

- Defect rectification
- Minor cable laying and termination

Other

- Watermain installation works at CLP 132 Kv Substation
- Underground utility rectification work for Manhole and Draw pit
- Underground utility Construction Work for Watermain water
- Underground utility repair Work for sampling pipe
- Underground utility repair Work for watermains work
- Light Pole installation work
- Road Construction
- Footpath Construction
- Landscape Construction
- Irrigation System installation
- Landscape planting work
- Traffic signage pole installation
- Cladding installation for elevated walkway
- Workshop construction
- 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 52nd Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 June to 30 June 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 EM&A works for Pre-operation phase water quality were conducted during the reporting period in accordance with the EM&A Manual. Six (6) of the pre-operation phase water quality monitoring results of SS obtained had exceeded the Action Level. Twenty-three (23) of the pre-operation phase water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. After investigation, all exceedances were concluded unrelated to the Project.
- 12.5. Pre-operation phase coral monitoring works was conducted on 17 June 2024. No sediment, bleaching or increased mortality in the general condition of all tagged coral colonies were observed during the monthly pre-operation phase monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period.
- 12.6. Pre-operation phase fishery monitoring for dry season 2024 was carried out on 17 and 24 February 2024. The detailed result of the monitoring was presented in the 50th Monthly EM&A Report.
- 12.7. In this reporting period, 45 times of landfill gas monitoring were periodically conducted at TKO Area 137 (Ch1+120 Ch1+800) until 20 April 2024. No exceedances of action level and limit level was observed.
- 12.8. 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.
- 12.9. 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.
- 12.10.No environmental complaint, notification of summons and prosecution was received in the reporting period.
- 12.11.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

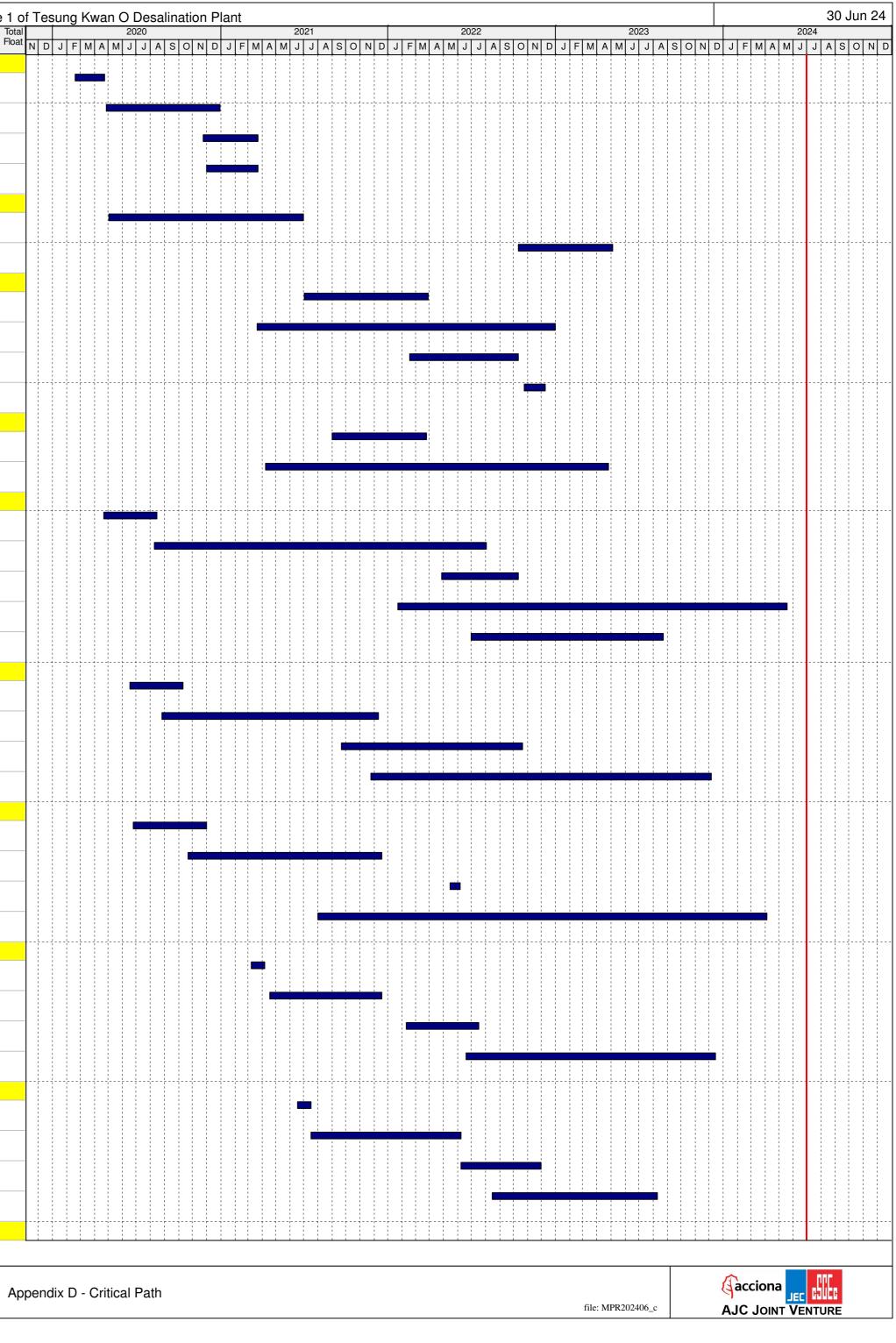
13/WSD/17 Activity ID	Activity Name	Baseline Duration	Baseline Start	Baseline Finish	Remaining Duration	Actual / Planned Start	Design, Bu Actual / Planned Finish	Actual %	Variance	Total		
Project Progr	amme Updated as at 30 Jun 2024	Duration			Duration	oluli		Complete		Tiour	N	
Key Dates												
KD0000100	nent and Completion Date	0	15-Nov-19		0	15-Nov-19A		100%	0		\$ L	_ett
KD0000110	Commencement of the Works	0	30-Dec-19		0	30-Dec-19 A		100%	0			\$
			30-Dec-19			30-Dec-19A						\
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	Planned Completion of the Works	0			0		30-Jun-24 A	100%				
Possession												
KD0000200	Possession of First Stage Portion A	0	30-Dec-19		0	30-Dec-19 A		100%	0			\$
KD0000210	Possession of First Stage Portion B	0	30-Dec-19		0	30-Dec-19 A		100%	0			\$
KD0000220	Possession of Area for Access Road	0	30-Dec-19		0	30-Dec-19 A		100%	0			\$
KD0000230	Possession of Temporary Works Area 1	0	30-Dec-19		0	30-Dec-19 A		100%	0			\$
KD0000240	Possession of Temporary Works Area 2	0	30-Dec-19		0	30-Dec-19 A		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			*
Executive Su	mmaries											
Preliminary S												
ES0001000	Mobilization and Preliminary Set Up	191	30-Dec-19	07-Jul-20	0	30-Dec-19 A	20-Jul-20 A	100%	-13			
	AIP and DDA	000	00 Dec 10	00 Navi 00	0	00 Dec 10 A	01 Aug 00 A	1000/	04			
ES0001010	AIP Civil Design Submission and Approval	330	30-Dec-19	23-Nov-20	0	30-Dec-19 A	31-Aug-20 A	100%				
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			
M&E Design ES0002000	AIP and DDA M&E AIP Process Mechanical Submission and Approval	477	30-Dec-19	19-Apr-21	0	30-Dec-19 A	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%				
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-19 A	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%				
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			
	t of Major Plant & Equipment Schedule	001	14 Mar 20	21 Aug 22	0	04 Ech 20 A	16 Jan 02 A	100%	107			
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%				
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 Switchboard / Genset / Building Services	300	14-Mar-20	07-Jan-21	0	14-Mar-20 A	28-Feb-21 A	100%	-52			
Summary B Actual Leve Target Bar	-	Page	1 of 5							App	per	ndi

ung Kwan O Desalination Plant	2021			2022	2023	30 Jun 24
J F M A M J J A S O N D J F		ASOND	JFMAM			
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Commencement of the Works						
						ion of the Works (1170 Days)
						Revised Completion of the Work
						◆ Planned 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 Clear	Water Bay Cour	ntry Park				
				· ·		
ix D - Critical Path					file: MPR202406_c	AJC JOINT VENTURE

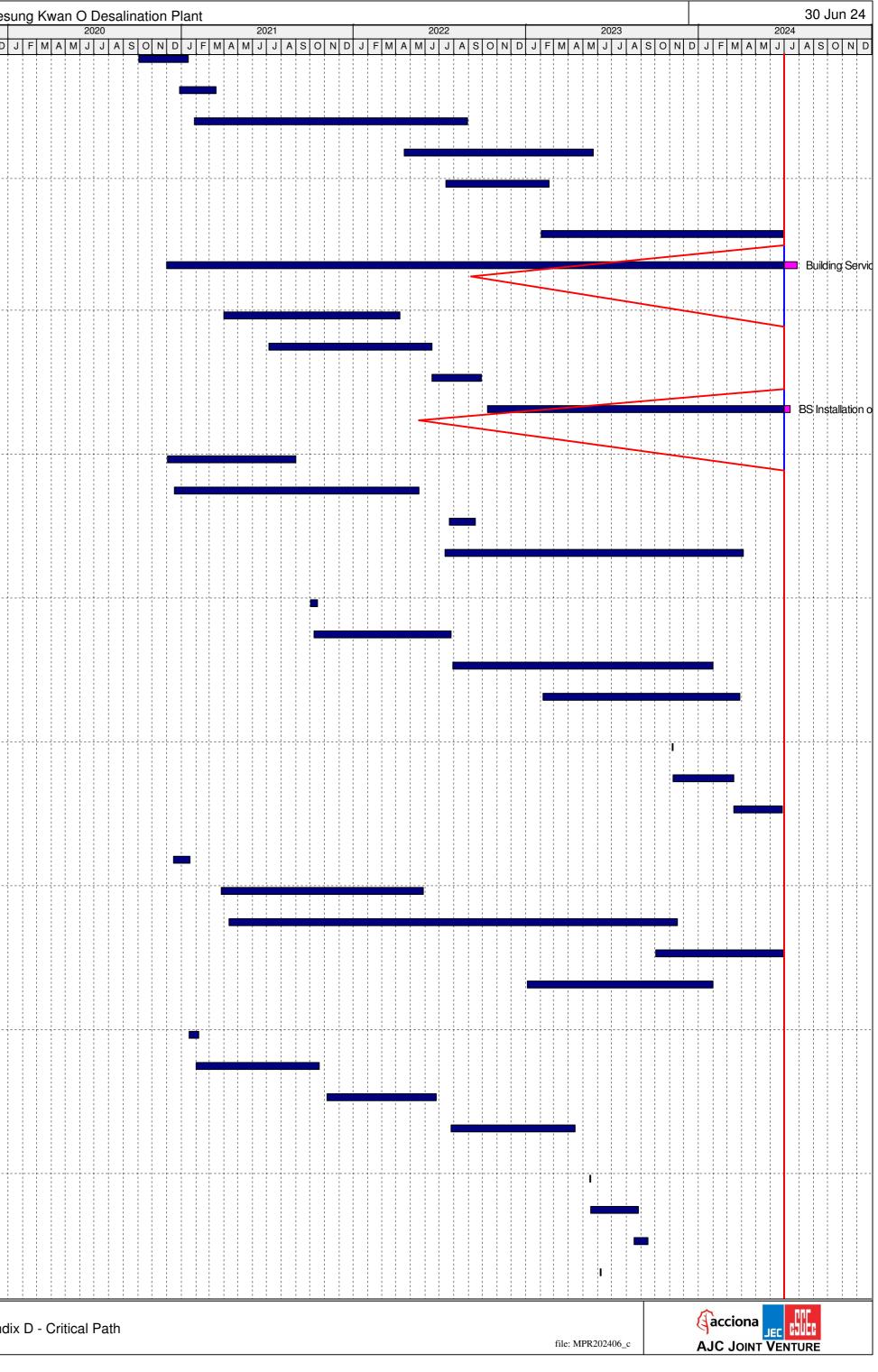
NSD/17	Activity Name	Baseline Duration	Baseline Start	Baseline Finish	Remaining Duration	Actual / Planned Start	Design, Bu Actual / Planned Finish	Actual % Complete	Variance	Total Float
32kV Subst S0001460	tation Excavation and Formation Works for 132kV Substation	15	16-Mar-20	30-Mar-20	0	19-Feb-20 A	23-Apr-20 A	100%	-24	
S0001470	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										
S0001060	Construction of Combine Shaft	257	27-Mar-20	08-Dec-20	0	02-May-20 A	30-Jun-21 A	100%		
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 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	
		440	00 D 00	47.14 04				1000(044	
S0001090	DN1650 Pipe Jacking for Outfall Pipeline	140	29-Dec-20	17-May-21	0	01-Sep-21 A	24-Mar-22 A	100%		
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	
S0002140	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	
	nosis Building									
S0001170	Excavation at RO Building	270	24-Jun-20	20-Mar-21	0	18-Jun-20 A	10-Oct-20 A	100%		
S0001180	Construction of RO Building	321	16-Nov-20	02-Oct-21	0	25-Aug-20 A	11-Dec-21 A	100%		
ES0001190	Architectural Finishes for RO Building	106	09-Aug-21	22-Nov-21	0	20-Sep-21 A	21-Oct-22 A	100%		
S0002150	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 S0001240	er Storage Tank 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	
ES0001250	Construction of Product Water Storage Tank	276	24-Nov-20	26-Aug-21	0	21-Oct-20 A	18-Dec-21 A	100%	-114	
S0001260	Architectural Finishes for Product Water Storage Tank	70	27-Aug-21	04-Nov-21	0	16-May-22 A	07-Jun-22 A	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	
roduct Wat	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	
hemical Bu S0001300	Lilding 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-22 A	100%	-370	
S0001320	Architectural Finishes for Chemical Building	73	05-Jun-21	16-Aug-21	0	09-Jun-22 A	30-Nov-22 A	100%	-470	
				02 May 02	0	15-Aug-22 A	10-Aug-23 A	100%	-443	
S0002220	M&E Installation of Chemical Building	264	02-Sep-21	23-May-22	0	10 Aug EE A	107109 2071	10070	775	

Target Bar

Critical Bar



WSD/17	Activity Name	Baseline Duration	Baseline Start	Baseline Finish	Remaining Duration	Actual / Planned Start	Design, Bu Actual / Planned Finish	Actual % Complete	Variance Finish Date	Total	
ES0001330	Piling Works for Administration Building	110	19-Oct-20	05-Feb-21	0	03-Oct-20 A	16-Jan-21 A	100%	20		
ES0001340	Excavation for Administration Building	31	06-Feb-21	08-Mar-21	0	28-Dec-20 A	15-Mar-21 A	100%	-7		
ES0001350	Construction of Administration Building	339	09-Mar-21	10-Feb-22	0	28-Jan-21 A	29-Aug-22 A	100%	-200		
ES0001360	Architectural Finishes for Administration Building	204	26-Aug-21	17-Mar-22	0	19-Apr-22 A	22-May-23 A	100%	-431		
ES0002230	M&E Installation of Admin Building	184	16-Nov-21	18-May-22	0	15-Jul-22 A	18-Feb-23 A	100%	-276		
Building Ser	vices & Lift Installation										
ES0002270	Lift Installation	147	18-Mar-22	11-Aug-22	0	02-Feb-23 A	28-Jun-24 A	100%	-686		
ES0002280	Building Services Installation	676	27-Nov-20	03-Oct-22	27	01-Dec-20 A	27-Jul-24	85%	-663	-178	
DSCG Build ES0001400	Ing 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		
ES0001410	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		
ES0001420	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		
ES0002200	BS Installation of On-site Chlorine Generation Building (DG inspection)	162	21-Dec-21	31-May-22	12	11-Oct-22 A	12-Jul-24	90%	-773	-163	
ost Treatmo	ent Building										
S0001210	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		
ES0001220	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		
ES0002180	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>ludge Thic</mark> ES0001680	kener Excavation for Sludge Thickener	73	19-Apr-21	30-Jun-21	0	02-Oct-21 A	16-Oct-21 A	100%	-108		
ES0001690	Construction of Sludge Thickener	121	02-Jul-21	30-Oct-21	0	08-Oct-21 A	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		
nspection (ES0001590	Corridor Piling for Inspection Corridor (Elevated Walkway)	60	09-Jan-21	09-Mar-21	0	15-Dec-20 A	19-Jan-21 A	100%	49		
ES0001600	Excavation for Inspection Corridor	121	14-Apr-21	12-Aug-21	0	26-Mar-21 A	28-May-22 A	100%	-289		
ES0001610	Construction of Inspection Corridor	299	06-May-21	28-Feb-22	0	12-Apr-21 A	16-Nov-23 A	100%	-626		
ES0001620	Architectural Finishes for Inspection Corridor	99	08-Feb-22	17-May-22	0	03-Oct-23 A	29-Jun-24 A	100%	-774		
ES0001625	Building Services for Inspection Corridor	0			0	03-Jan-23 A	01-Feb-24 A	100%			
	cal and Central Chiller Plant Building										
ES0001430	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		
ES0001440	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		
ES0001450	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-Jan-22	25-Jun-22	0	27-Jul-22 A	14-Apr-23 A	100%	-293		
uard Hous S0001490	e 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		
ES0001510	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		
ES0001520	Excavation for Guard House near Pier	8	21-May-21	28-May-21	0	07-Jun-23 A	09-Jun-23 A	100%	-742		
						0. 00H LOA	55 50H L0/1	10070			



VSD/17	Activity Name	Baseline	Baseline Start	Baseline Finish	Remaining	Actual / Planned	Actual / Planned	Actual %	Dperate Sta	Tota
		Duration			Duration	Start	Finish	Complete	Finish Date	Floa
ES0001530	Construction of Guard House near Pier	147	29-May-21	22-Oct-21	0	10-Jun-23 A	10-Oct-23 A	100%	-718	
ES0001540	Architectural Finishes for Guard House near Pier	74	23-Oct-21	04-Jan-22	0	05-Oct-23 A	23-Mar-24 A	100%	-809	
<mark>O2 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	
		04	27-Jan-22	20-Api-22	U	TT-IVIAT-22 A	03-001-23 A	100%	-001	
esel 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										
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	318	28-Sep-21 A	14-May-25	50%	-950	-469
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	29	05-Jan-23 A	29-Jul-24	40%	-765	-180
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	
atutory Su	bmission & Inspection									
S0002330	Statutory Submission & Inspection	1148	11-Jan-20	03-Mar-23	82	03-Dec-19 A	20-Sep-24	100%	-567	-233
–	Commissioning		40.4.00					(000)	100	
S0002400	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	5	02-Jun-23 A	05-Jul-24	100%	-520	-156
S0002420	M&E Performance Test	40	02-Feb-23	13-Mar-23	0	28-Nov-23 A	26-Apr-24 A	100%	-409	
	of Major Plant & Equipment Schedule gs and Valves									
<mark>ressure Relief</mark> P-PV-A51IK-0	Valves NR Receipt - Pressure relief valves	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	
	Negotiation and Award / Client Approval - Pressure relief valves		08-Nov-21	06-Jan-22	0	06-Mar-21 A	19-Nov-21 A	100%	49	
		60								
	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	
) 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	0 1st delivery date to site - Pressure relief valves	0		31-Aug-22	0		31-Jul-22 A	100%	32	
<mark>strumentai</mark> ypass Level In	tion, Control & Automation									
	- NR Receipt - Bypass Level Indicators	0		12-Apr-21	0		16-Sep-20 A	100%	208	
P-IC-A08FK2	- Receipt of offers - Bypass Level Indicators	30	13-Apr-21	12-May-21	0	17-Sep-20 A	20-Oct-20 A	100%	205	
P-IC-A08FK2	- 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	
P-IC-A08FK2	- Manufacture and FAT - Bypass Level Indicators	90	11-Aug-21	08-Nov-21	0	01-Jul-21 A	22-Jul-22 A	100%	-255	
				00 D 01	0	18-Sep-22 A	26-Oct-22 A	100%	001	
P-IC-A08FK2	- Transport & Customs - Bypass Level Indicators	50	09-Nov-21	28-Dec-21	0	10-3ep-22 A	20-001-22 A	100%	-301	

sung Kwan O Desalination Plan	2021 2022	2023	30 Jun 24
			M&E PV Pane
			Statutory
			M&E Commissio
•	♦ NR Receipt - Pressure relief valves		
	Receipt of offers - Pressure relief v		
	Technical Validation - Pressure	relief valves	
	Negotiation and Award / (Client Approval - Pressure relief valves	
	Manı	Ifacture and FAT - Pressure relief valves	
	т	ransport & Customs - Pressure relief valves	
	◆ • •	st delivery date to site - Pressure relief valves	5
•	NR Receipt - Rypace Level Indicators		
	♦ NR Receipt - Bypass Level Indicators		
	Receipt of offers - Bypass Level Indicators		
	Technical Validation - Bypass Level Indicators		
	Negotiation and Award / Client Approval	Bypass Level Indicators	
	Manu	Ifacture and FAT - Bypass Level Indicators	
	•	Transport & Customs - Bypass Level Inc	licators
dix D - Critical Path			Gacciona Jec 🛄
		file: MPR202406_c	

ID	Activity Name	Baseline	Baseline Start	Baseline Finish	Remainin	g Actual / Planned	Actual / Planned	Actual %	Variance	Total	2020	202	21		20)22	Ī	2023			202	4
		Duration			Duration	Start	Finish	Complete	Finish Date		MAMJJAS	MAMJ	JASON	NDJF			N D J F M A		ASON	DJFN		
	1st delivery date to site - Bypass Level Indicators	0		28-Dec-21	0		26-Oct-22 A	100%	-301								1 st delivery date					
evel Transmitte P-IC-A08FK1-	s NR Receipt - Level Transmitters	0		12-Apr-21	0		16-Sep-20 A	100%	208		•	🔶 NR Red	ceipt - Level T	Transmitters	\$							
P-IC-A08FK1-	Receipt of offers - Level Transmitters	30	13-Apr-21	12-May-21	0	17-Sep-20 A	20-Oct-20 A	100%	204			👝 Rep	eipt of offers -	- Level Trar	nsmitters							
P-IC-A08FK1-	Technical Validation - Level Transmitters	30	13-May-21	11-Jun-21	0	21-Oct-20 A	26-Nov-20 A	100%	198			<u></u> т	echnical Valid	dation - Lev	el Transmitt	ers						
P-IC-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					Negotia	ation and Aw	ard / Client Ap	proval - Level Tr	ansmitters				
P-IC-A08FK1-	Manufacture and FAT - Level Transmitters	90	11-Aug-21	08-Nov-21	0	03-Dec-21 A	31-Mar-22 A	100%	-142						- Manufa	cture and FAT	- Level Transmi	tters				
P-IC-A08FK1-	Transport & Customs - Level Transmitters	50	09-Nov-21	28-Dec-21	0	02-Apr-22 A	01-Jun-22 A	100%	-154							fransport & Cι	stoms - Level Tr	ansmitters				
2-IC-A08FK1-	1 st delivery date to site - Level Transmitters	0		28-Dec-21	0		01-Jun-22 A	100%	-154					\$	•	st delivery dat	e to site - Level⊺	Fransmitters				
nstruction																						
vil & Struct	ure Construction																					
	DAF: Remedial Work at Cell No. 1 and 3 after Water Test	0			0	30-Nov-21 A	27-Jun-22 A	100%								DAF: Reme	lial Work at Cell	No. 1 and 3	after Water	Test		
	cess & Non Process mbined Shaft Zone										I I											
	GRP Combined Shaft S - DN500 Tee at +3.214mPD	0			0	01-Apr-23 A	06-Apr-23 A	100%									1	GRP Comb	ined Shaft S	, - DN500 ⊺	Tee at +3.2	14mPD
<mark>ard Piping - Ac</mark> CC2401311k	tiDAFF Zone GRP West ActiDAFF: (Covid-19) Limited Resources Effect to GRP Works	0			0	08-Feb-22 A	19-Apr-22 A	100%							GRF	West ActiDAF	F: (Covid-19) Lir	nited Resou	rces Effect to	o GRPWo	rks	
CC24012404	GRP South ActiDAFF: DN400 at 5.490mPD at C10/CD~CF	0			0	14-May-22 A	18-Jun-22 A	100%			I I					GRP South A	ctiDAFF: DN400) at 5 490m	PD at C10/C	D≁CF		

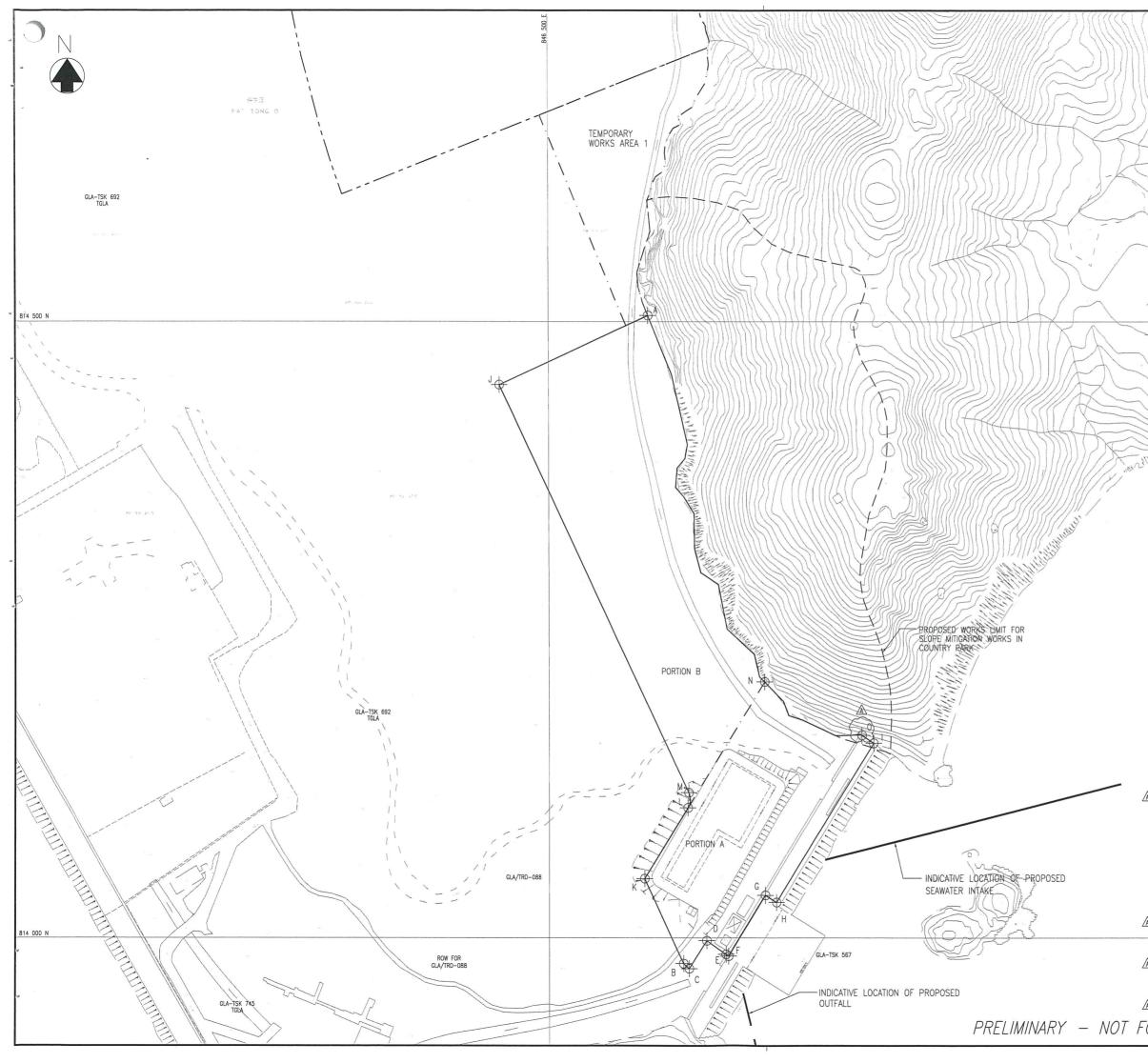






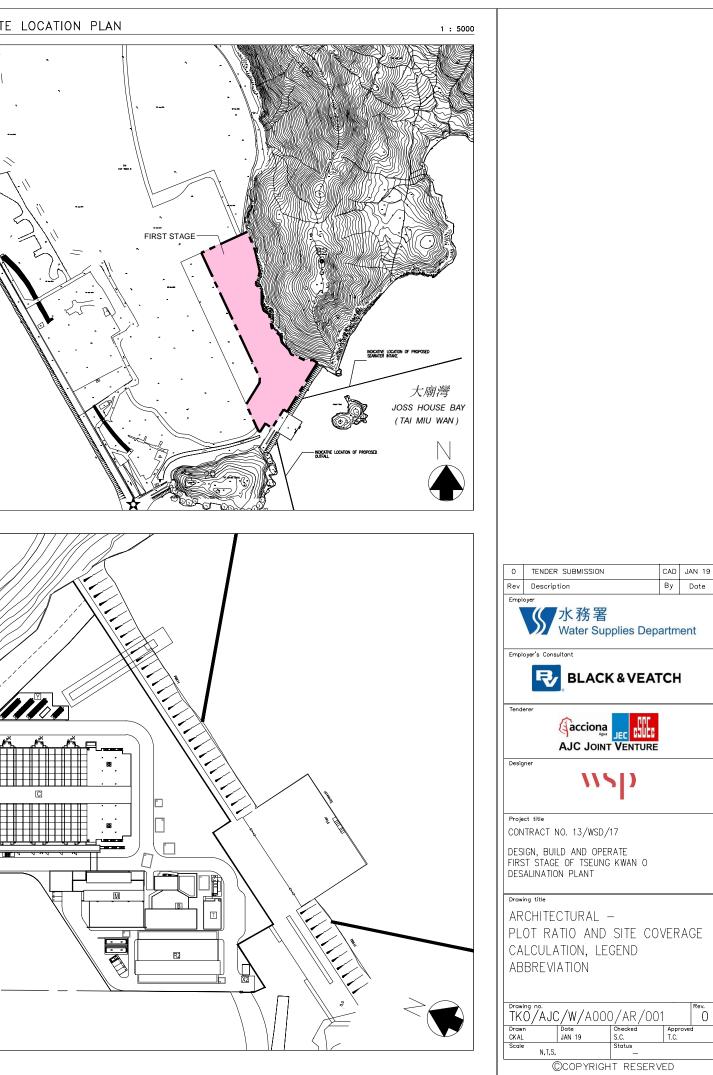
Appendix B

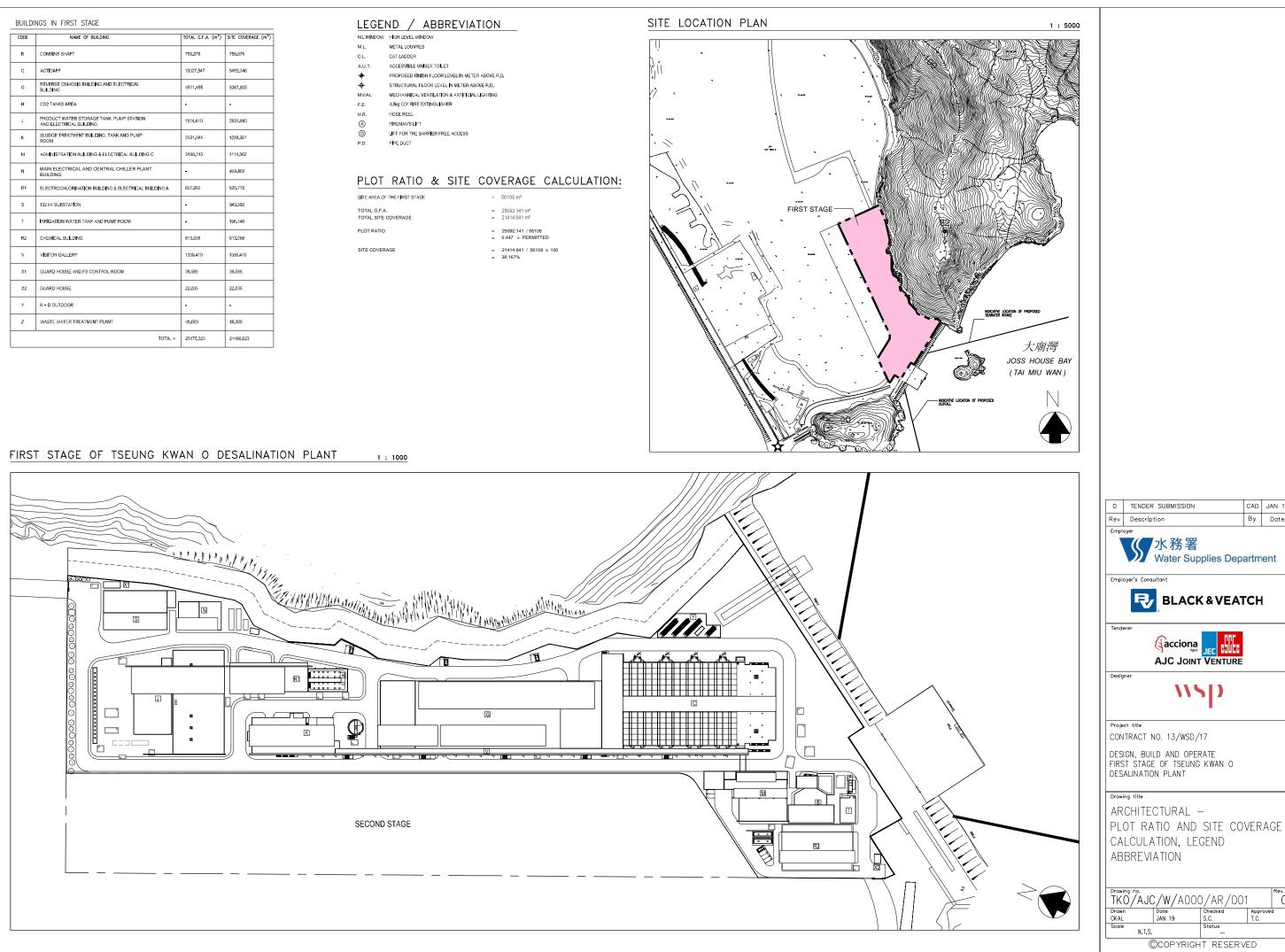
Overview of Desalination Plant in Tseung Kwan O



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847-000	1	14	1)))		LEGEND:
	1	11	SS1 /		BOUNDARY OF SENT
	())))/	[]//		LANDFILL EXTENSION BOUNDARY OF WORKS AREA FOR
	1		1º		TKO DESALINATION PLANT
))			HHL.		GLA-TSK 692 TGLA 692
$\langle \langle \rangle$	4	tt	H.	>	NOTE: TEMPORARY WORKS AREA 1 WILL BE
+	_	K			HANDED OVER AT +6 MPD WITH A TOLERANCE OF ±500mm.
1		2	>)))////	<u> </u>	
1	/			1177	
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					B 10/03 UPDATE NOTES YLC
					A 07/18 UPDATE COORDINATES YLC Revision Date Description Initial
					Designed Checked Drawn Checked
					Initial YLC CKH SZ WLS Date 02/18 02/18 02/18 02/18
					Approved
					ansmallo
					Agreement No. CE 8/2015 (WS)
	ſ	POINT	EASTING	NORTHING	Contract No.
		А	846581.93	814505.03	13/WSD/17
		В	846610.11	813979.23	Contract Title DESIGN. BUILD AND OPERATE
	1		010010.11		
		С	846614.73	813975.12	DESIGN, BUILD AND OPERATE FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT
		C D		813975.12 813997.84	FIRST STÁGE OF TSEUNG KWAN O DESALINATION PLANT
		_	846614.73		DESALINATION PLANT
		D	846614.73 846629.09	813997.84	DESALINATION PLANT
A (D E	846614.73 846629.09 846644.75	813997.84 813986.74	DESALINATION PLANT
	· · · · · · · · · · · · · · · · · · ·	D E F	846614.73 846629.09 846644.75 846646.80	813997.84 813986.74 813985.28	DESALINATION PLANT
	· · · · · · · · · · · · · · · · · · ·	D E F G	846614.73 846629.09 846644.75 846646.80 846646.80 846677.24	813997.84 813986.74 813985.28 814034.67	DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. Revision
		D E F G H	846614.73 846629.09 846644.75 846646.80 846677.24 846686.56	813997.84 813986.74 813985.28 814034.67 814028.89	DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B
		D E F G H	846614.73 846629.09 846644.75 846646.80 846646.80 846677.24 846686.56 846766.21	813997.84 813986.74 813985.28 814034.67 814028.89 814158.11	DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. Revision
		D E F G H J	846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 846766.21 846459.65	813997.84 813986.74 813985.28 814034.67 814028.89 814158.11 814448.83 814048.11 814405.63	DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B Scele A1 1 : 1500 A3 1 : 3000 水務署
		D E F G H I J	846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 846766.21 846766.21 846459.65 846578.45	813997.84 813986.74 813985.28 814034.67 814028.89 814158.11 814448.83 814048.11	DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B Scole A1 1 :: 1500 A3 1 :: 3000 水務署 Water Supplies
		D E F G H I J K L	846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 8466766.21 8466578.45 8466578.45 846613.89	813997.84 813986.74 813985.28 814034.67 814028.89 814158.11 814448.83 814048.11 814405.63	DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B Scele A1 1 : 1500 A3 1 : 3000 水務署
		D F G H J K L M	846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 8466766.21 846659.65 846578.45 846613.89 846614.60	813997.84 813986.74 813985.28 814034.67 814028.89 814028.89 814158.11 814448.83 814048.11 814405.63 814117.96	DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B Scole A1 1 :: 1500 A3 1 :: 3000 水務署 Water Supplies

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 <u>.</u> 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	ADMINISTRATION BUILDING & ELECTRICAL BUILDING 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
٧	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









Appendix C

Summary of Implementation Status of Environmental Mitigation





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent		ement Stage	tation	Implementation	0
Reference	Mitigation Measures	main concerns to address	Implementation Agent	D	C	0	status	Guidelines
Air Quality								
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)		1		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)	~	1		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 &	Implementation Agent	-	ement Stage	tation	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	-
\$4.8.1	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	Imple	mentation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	recommended measures & main concerns to address	Agent	D	Stage C O	status	Guidelines
Noise		main concerns to address			C O		
S5.7	Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase.	All area/ During construction	Contractor(s)		~	Implemented	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase.	Noise control/ During construction	Contractor(s)		~	N/A	A Practical Guide for the 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 construction	Contractor(s)		~	N/A	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum.	Noise control/ During construction	Contractor(s)		~	Implemented	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	Plants known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	Noise control/ During construction	Contractor(s)		~	N/A	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.	Noise control/ During construction	Contractor(s)		~	N/A	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During construction	Contractor(s)		✓	Implemented	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	Movable noise barriers of 3m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the 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.	Noise control/ During construction	Contractor(s)		•	N/A	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Noise control/ During construction	Contractor(s)		~	N/A	A Practical Guide for the Reduction of Noise from Construction Works
\$5.7	Construction activities (e.g. excavation/shoring, reinstatement (asphalt), and pipe jacking) will be planned and carried out in sequence, such that items of PME proposed for these activities will not be operated simultaneously.	Noise control/ During construction	Contractor(s)	•	•	Implemented	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	PMEs will not be used at the works areas near educational institutions with residual impact (ie the "influence area" within a	Noise control / During construction	Contractor(s)		~	N/A	A Practical Guide for the Reduction of Noise from





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	-	ement Stage	ation	Implementation status	Relevant Legislation & Guidelines
		main concerns to address		D	C	0		
	radius of 40m) during school hours in order to reduce impact to the educational institutions.							Construction Works
S5.7	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	-
\$5.9	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	-
S5.10	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	-
S5.10	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			Implementation	Relevant Legislation
Reference	Mitigation Measures	recommended measures & main concerns to address			Stage		status	& Guidelines
Water Oue		main concerns to address		D	С	0		
Water Qua 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	
S6.9	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	-
S6.9	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	-



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EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Impl	emen Stag	itation 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)		1		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	-



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EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	-	emer Stag	itation e	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	1 0	D	C	0	Status	Guidelines
Waste Mar		<u> </u>				1		1
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)		1		Implemented	Waste Disposal Ordinance (Cap 354)





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent		emen Stag	tation e	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	r	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	-	emen Stage	tation	Implementation	on Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	Implementation Agent	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)
S8.5	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
S8.5	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	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	-	emen Stag	itation e	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address		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		✓	•	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		1	•	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	
\$8.5	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	
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 & main concerns to address	Implementation Agent	Implementation Stage			Implementation	Relevant Legislation &
Reference				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/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent				Implementation	Relevant Legislation &
Reference				D	С	0	Status	Guidelines
Ecology		1	Γ			1		
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	-
\$9.7	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)		~		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 Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation	Relevant Legislation &
			1 0	D	C	0	Status	Guidelines
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)		√		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 Reference	0	Objectives of the recommended measures &	Implementation Agent	Implementation Stage			Implementation	Relevant Legislation &
		main concerns to address		D	С	0	Status	Guidelines
	e & Visual							
S11.10 & 11.11	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)	*	•	<	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	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
Kelefelice		main concerns to address		D	С	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 recommended measures & main concerns to address		-	emen Stage	tation	Implementation Status	Relevant Legislation & Guidelines
Reference			Implementation Agent	D	C	0		
Landfill G	as Hazard						•	
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)	1	~	✓	Implemented	





EIA	Recommended Environmental Protection Measures/	Objectives of the		Implementation Stage			Implementation	Relevant Legislation &
Reference		recommended measures & main concerns to address	Implementation Agent	D	C O		Status	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)	*	•	V	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

Impact Monitoring Schedule

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Water Quality Monitoring Schedule (June 2024)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
3011	Mon	Tue	i i cu	110	FII	1
						Inpact Water Quality monitoring for. CE. CF. WKR1, WKR2, WKR3, WKR1, WKR16, WKR32, WKR36, WKR37, NF1, NF2, NF3 Menitoring Parints Mid-abh/08.00 - 9.54
1	3	4	5	6	7	8
		Impact Water Quality monitoring for CE, CF, WSRL, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebt-08-49 - 12:19		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 10:17 - 13:47		Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-fhood: 08:00 - 9:31
)	10	11	12	13	14	15
		Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood.08:00 - 11:20		Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:54 - 12:24		Impact Weter Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood:10:32 - 14:02
16	17	18	19	20	21	22
		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR76, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:13 - 11: 43		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 09:11 - 12:41		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 10:21 - 13:51
13	24	25	26	27	28	29
4		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:00 - 09:01		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood.08.00 - 11:04		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood:10:03 - 13:33
Remarks: 1. Monitoring Parameters: Dissolved oxygen, Temperat 2. Due to the adverse weather, water monitoring on 1 J Note: Due to safety concern of vessel transportation earlier t Prioritized routing: Mid ebc. CEWSR16WSR37	ine 2024 was cancelled. han 0700, Water Quality Monitoring would start at 0800	i. d: CF→WSR1→WSR2→WSR3→WSR4→Remaining :	, Mations			

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Tentative Water Quality Monitoring Schedule (July 2024)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Sun	1	2	3		5	6
		Impact Water Quality monitoring for CE. CF. WSR1, WSR2, WSR3, WSR4, WSR3, WSR46, WSR3, 7N, HSR2, NF3 Monitoring Period: Mid-flood38.00 - 11:16		Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR46, WSR7, YR1, HS2, NF3 Monitoring Period: Misi-obi.09:23 - 12:53		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR46, WSR37, Nr1, Nr2, Nr3 Monitoring Period: Mid-ebb:10.51 - 14.21
-	0	0	10		12	13
7	8 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR66, WSR37, VF, NF2, NF3 Monitoring Period: Mid-flood;08:00 - 09:57	9	10 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR66, WSR37, Nr1, Nr2, Nr3 Monitoring Pesiod: Mid-flood:08:500 - 11:12	1	12 Impact Water Quality monitoring for CE., CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR56, WSR7, YR1, NF2, NF3 Monitoring Period: Mid-flood: 08:00 - 11:22	13
14	15	16	17	18	19	20
		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb.08:00 - 10:33		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb:08:13 - 11:43		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb:09:28 - 12:58
21	22	23	24	25	26	27
		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood.08:00 - 09:40		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:00 - 10:12		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:42 - 12:12
28	29	30				
1		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR7, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:00 - 11:25				
Remarks: 1. Monitoring Parameters: Dissolved oxygen, Temperat Note: - Due to safely concern of vessel transportation earlier t - Prioritized routing. Mid-ebb: CEWSR16WSR37	ure, pH, Turbidity, Salinity, Suspended Solids, Iron, Tot han 0700, Water Quality Monitoring would start at 0800 →WSR36→WSR33→Remaining stations and Mid-floo		stations			

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Ecological Monitoring Schedule								
Jun-24								
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
						1		
2	3	4	5	6	7	8		
9	10	11	12	13	14	15		
16	17	18	19	20	21	22		
	Regular Pre-Operation							
	Phase Coral Monitoring							
	Filase Corai Monitoring							
23	24	25	26	27	28	29		
30								
The schedule may change	due to unforeseen circumstances (adverse weather, etc.)							

Mon 1 8 8 15	Tue 2	Jul-2 Wed 3 10 10	Thu 4 11	Pri 5 12	Sat 6 13
 8	2 9 9	3	4 11	5	6
 8	9	10	11	12	13
 8	9	10	11	12	13
 8	9	10	11	12	13
 8	9	10	11	12	13
 8	9	10	11	12	13
 15					
15					
15					
10	16	17	18	19	20
		Regular Pre-	Operation		
		Phase Coral N	Monitoring		
			8		
22	23	24	25	26	27
 					-
29	30	31			





Appendix E

Event / Action Plan



Table E1Event and Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	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, conduct additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor 	 Review the analyzed results submitted by the ET Review the proposed remedial measures by the Contractor and advise the ER accordingly Supervise the implementation of remedial 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, assess effectiveness by additional monitoring. Report the remedial action implemented and the additional monitoring results to IEC, EPD, ER and Contractor If exceedance stops, cease additional monitoring 	 Supervise the implementation of remedial measures 	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 E2Event and Action Plan for Water Quality Monitoring

Event	Action			
	ET	IEC	Contractor(s)	ER
Action 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. 	 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 properlimplemented.
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. 	 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 E3Event and Action Plan for Ecology during Construction Phase

Event				Act	ion			
Event	ET		IEC		Cor	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 is 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 E4Event and Action Plan for Pre-Operation Phase Coral Monitoring

Event		Acti	ion	
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 F

WaterQualityMonitoringEquipmentandLandfillGasEquipmentCalibrationCertification





5A, 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@ysîtool.com www.sokkia.com.hk www.ysi.com.hk Supply, Repair, Rental, Scanning and Calibration Service of Surveying Instruments and Accessories

Certificate No. : CAL230351

Page 1 of 1

CALIBRATION CERTIFICATE OF MULTI GAS DETECTOR _ ...

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

Unit-Under-Test (UUT) Information

Description	:	Multi gas detector
Manufacturer	:	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 CO₂ 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	:	18 Aug., 2023
Date of calibration	:	22 Aug., 2023
Next calibration date	•	21 Aug., 2024
Calibration location	:	YSF Calibration Laboratory
Environmental conditions	;	20.5-21.3°C / 54-63%RH
Method used	:	By direct comparison

Calibration Results :

Parameters	Measured value
(1) Methane (50% LEL)	45% LEL
(2) Oxygen (18.1%)	18.3%
(3) Hydrogen Sulphide (25.5ppm)	26ppm
(4) Carbon monoxide (101ppm)	94ppm
(5) Carbon Dioxide (0.30%)	0.24%

Remark :

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

Tested by : _	Lam Man Kwong	_ Date : _	22 Aug., 2023	_ Certified by :_	So Chi Kuen (Lab Manager)	22 Aug. 2023
			** End of Cer	tificato **		

End of Certificate

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.	:R-BD050046
Date of Issue	: 16 May 2024
Page No.	:1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi-Parameters)
Manufacturer :	YSI (a xylem brand)
Serial Number :	22D100436
Date of Received :	07 May 2024
Date of Calibration :	14 May 2024
Date of Next Calibration :	13 August 2024
Request No. :	D-BD050046

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Test Parameter</u>	Reference Method
pH value	APHA 21e 4500-H ⁺ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March
	2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.03	0.03	Satisfactory
7.42	7.37	-0.05	Satisfactory
10.01	10.10	0.09	Satisfactory

Tolerance of pH value should be less than \pm 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
16.5	16.3	-0.2	Satisfactory
26.0	25.0	-1.0	Satisfactory
33.0	31.6	-1.4	Satisfactory

Tolerance of Temperature should be less than \pm 2.0 (°C)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.54	-4.60	Satisfactory
20	19.66	-1.70	Satisfactory
30	29.94	-0.20	Satisfactory

Tolerance of Salinity should be less than \pm 10.0 (%)

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LEE Chun-ning

Assistant Manager

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AUTHORIZED SIGNATORY:



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.95	7.77	-0.18	Satisfactory
4.04	4.07	0.03	Satisfactory
3.17	3.55	0.38	Satisfactory
0.40	0.47	0.07	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.06		Satisfactory
10	9.73	-2.7	Satisfactory
20	19.38	-3.1	Satisfactory
100	96.38	-3.6	Satisfactory
800	721.14	-9.9	Satisfactory

Tolerance of Turbidity should be less than \pm 10.0 (%)

Remark(s)

•The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards. •The results relate only to the calibrated equipment as received

•The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

•"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures. •The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong **T:** +852 2610 1044 **F:** +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:	JOE HO	WORK ORDER:	HK2422488
CLIENT:	AURECON HONG KONG LIMITED		
ADDRESS:	UNIT E, 12/F, FORD GLORY PLAZA,	SUB-BATCH:	0
	NO. 37-39 WING HONG STREET,	LABORATORY:	HONG KONG
	LAI CHI KOK	DATE RECEIVED:	06-Jun-2024
		DATE OF ISSUE:	14-Jun-2024

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.Equipment Type:Chlorine MeterService Nature:Performance CheckScope:Free Chlorine and Total Residual ChlorineBrand Name/ Model No.:[LOVIBOND]/ [MD200]Serial No./ Equipment No.:[19/79699]/ [N/A]Date of Calibration:06-June-2024

Ma Sin

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER: HK2422488 **SUB-BATCH:** 0 DATE OF ISSUE: 14-Jun-2024 **CLIENT:** AURECON HONG KONG LIMITED Chlorine Meter Equipment Type: Brand Name/ [LOVIBOND]/[MD200] Model No.: Serial No./ [19/79699]/[N/A] Equipment No.: Date of Next Calibration: Date of Calibration: 06-September-2024 06-June-2024

PARAMETERS:

Free Chlorine Method Ref: APHA (23rd edition), 4500Cl: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (%)
0.2	0.21	+5.0
1.0	1.01	+1.0
2.0	1.90	-5.0
	Tolerance Limit (%)	±10.0

Total Residual Chlorine

Method Ref: APHA (23rd edition), 4500Cl: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (%)
0.2	0.21	+5.0
1.0	0.98	-2.0
2.0	1.85	-7.5
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ma Aij

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental





Appendix G

Water Quality Monitoring Data & Landfill Gas Monitoring Data

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
CE	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:49:00 AM	8.97	8.29	33.29	25.99	2.66	2.50	<0.1	<0.01
CE	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:49:00 AM	8.91	8.29	33.35	26.09	2.66	3.00	<0.1	<0.01
CE	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:50:00 AM	8.95	8.29	33.33	25.97	2.71	2.50	<0.1	<0.01
CE	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:50:00 AM	8.95	8.29	33.29	26.09	2.72	2.50	<0.1	<0.01
CE	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	8:51:00 AM	8.96	8.25	33.32	25.99	2.69	4.00	<0.1	<0.01
CE	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	8:51:00 AM	8.92	8.24	33.35	26.09	2.66	3.00	<0.1	<0.01
CF	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:01:00 PM	8.97	8.18	32.60	26.21	2.45	10.00	<0.1	<0.01
CF	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:01:00 PM	9.00	8.16	32.57	26.18	2.49	7.00	<0.1	<0.01
CF	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	10	12:02:00 PM	8.94	8.20	32.55	26.28	2.44	3.00	<0.1	<0.01
CF	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	10	12:02:00 PM	8.96	8.21	32.58	26.17	2.38	6.00	<0.1	<0.01
CF	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	12:03:00 PM	8.94	8.19	32.58	26.16	2.38	3.00	<0.1	<0.01
CF	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	12:03:00 PM	9.00	8.16	32.55	26.19	2.24	3.00	<0.1	<0.01
WSR01	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:38:00 AM	9.07	8.12	32.98	26.18	1.78	4.00	<0.1	<0.01
WSR01	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:38:00 AM	9.06	8.11	32.99	26.18	1.78	2.50	<0.1	<0.01
WSR01	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:39:00 AM	9.08	8.16	33.02	26.33	1.78	2.50	<0.1	<0.01
WSR01	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:39:00 AM	9.06	8.14	32.93	26.28	1.76	2.50	<0.1	<0.01
WSR01	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:40:00 AM	9.03	8.14	32.94	26.23	1.73	2.50	<0.1	<0.01
WSR01	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:40:00 AM	9.05	8.13	32.98	26.20	1.77	2.50	<0.1	<0.01
WSR02	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:17:00 AM	8.64	8.18	32.37	26.28	2.10	2.50	<0.1	<0.01
WSR02	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:17:00 AM	8.71	8.18	32.34	26.22	2.14	3.00	<0.1	<0.01
WSR02	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:18:00 AM	8.70	8.19	32.38	26.18	2.10	2.50	<0.1	<0.01
WSR02	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:18:00 AM	8.65	8.17	32.39	26.27	2.12	2.50	<0.1	<0.01
WSR02	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	9	11:19:00 AM	8.68	8.18	32.32	26.23	2.11	2.50	<0.1	<0.01
WSR02	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	9	11:19:00 AM	8.68	8.19	32.37	26.28	2.14	2.50	<0.1	<0.01
WSR03	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:59:00 AM	8.17	8.15	32.86	26.12	1.79	3.00	<0.1	<0.01
WSR03	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:59:00 AM	8.21	8.14	32.82	26.05	1.75	4.00	<0.1	<0.01
WSR03	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:00:00 AM	8.21	8.15	32.79	26.06	1.77	3.00	<0.1	<0.01
WSR03	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:00:00 AM	8.18	8.14	32.88	26.17	1.76	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR03	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:01:00 AM	8.16	8.13	32.79	26.10	1.77	2.50	<0.1	<0.01
WSR03	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:01:00 AM	8.19	8.13	32.86	26.16	1.76	4.00	<0.1	<0.01
WSR04	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:44:00 AM	8.88	8.32	33.08	26.00	1.55	3.00	<0.1	<0.01
WSR04	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:44:00 AM	8.90	8.28	33.14	25.96	1.48	2.50	<0.1	<0.01
WSR04	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:45:00 AM	8.92	8.31	33.13	26.09	1.49	3.00	<0.1	<0.01
WSR04	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:45:00 AM	8.88	8.33	33.12	26.06	1.33	2.50	<0.1	<0.01
WSR04	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:46:00 AM	8.90	8.31	33.14	26.06	1.58	3.00	<0.1	<0.01
WSR04	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:46:00 AM	8.90	8.30	33.14	26.05	1.49	2.50	<0.1	<0.01
WSR16	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:12:00 AM	8.89	8.17	32.79	26.26	2.20	2.50	<0.1	<0.01
WSR16	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:12:00 AM	8.91	8.18	32.81	26.21	2.20	3.00	<0.1	<0.01
WSR16	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	9:13:00 AM	8.92	8.19	32.78	26.18	2.22	2.50	<0.1	<0.01
WSR16	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	9:13:00 AM	8.93	8.20	32.80	26.25	2.21	4.00	<0.1	<0.01
WSR16	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	15	9:14:00 AM	8.88	8.19	32.74	26.18	2.23	3.00	<0.1	<0.01
WSR16	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	15	9:14:00 AM	8.94	8.17	32.77	26.29	2.21	2.50	<0.1	<0.01
WSR33	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:27:00 AM	9.12	8.18	32.79	26.18	2.04	3.00	<0.1	<0.01
WSR33	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:27:00 AM	9.14	8.16	32.80	26.07	2.06	2.50	<0.1	<0.01
WSR33	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:28:00 AM	9.12	8.15	32.82	26.07	2.05	2.50	<0.1	<0.01
WSR33	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:28:00 AM	9.13	8.14	32.75	26.12	2.08	2.50	<0.1	<0.01
WSR33	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:29:00 AM	9.17	8.15	32.78	26.12	2.06	2.50	<0.1	<0.01
WSR33	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:29:00 AM	9.13	8.19	32.82	26.15	2.04	2.50	<0.1	<0.01
WSR36	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:11:00 AM	9.04	8.12	33.39	26.35	1.75	2.50	<0.1	<0.01
WSR36	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:11:00 AM	8.99	8.16	33.35	26.28	1.72	3.00	<0.1	<0.01
WSR36	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	3	10:12:00 AM	9.02	8.14	33.34	26.36	1.70	2.50	<0.1	<0.01
WSR36	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	3	10:12:00 AM	9.04	8.13	33.35	26.27	1.71	2.50	<0.1	<0.01
WSR36	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	5	10:12:00 AM	9.02	8.12	33.37	26.29	1.69	3.00	<0.1	<0.01
WSR36	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	5	10:12:00 AM	9.02	8.14	33.40	26.29	1.69	2.50	<0.1	<0.01
WSR37	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:05:00 AM	9.16	8.13	33.34	26.09	1.68	2.50	<0.1	<0.01
WSR37	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:05:00 AM	9.14	8.13	33.41	26.01	1.65	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR37	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:06:00 AM	9.16	8.09	33.38	25.99	1.64	2.50	<0.1	<0.01
WSR37	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:06:00 AM	9.14	8.11	33.34	26.00	1.63	2.50	<0.1	<0.01
WSR37	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:07:00 AM	9.19	8.13	33.37	26.05	1.67	2.50	<0.1	<0.01
WSR37	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:07:00 AM	9.20	8.10	33.40	26.03	1.64	3.00	<0.1	<0.01
NF1	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:33:00 AM	9.25	8.21	32.87	26.24	1.77	2.50	<0.1	<0.01
NF1	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:33:00 AM	9.23	8.16	32.90	26.14	1.79	2.50	<0.1	<0.01
NF1	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	9:34:00 AM	9.22	8.21	32.94	26.18	1.81	2.50	<0.1	<0.01
NF1	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	9:34:00 AM	9.27	8.17	32.86	26.22	1.81	2.50	<0.1	<0.01
NF1	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	9:35:00 AM	9.21	8.20	32.86	26.22	1.78	2.50	<0.1	<0.01
NF1	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	9:35:00 AM	9.27	8.19	32.94	26.10	1.77	2.50	<0.1	<0.01
NF2	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:50:00 AM	8.41	8.19	32.73	26.40	1.53	2.50	<0.1	<0.01
NF2	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:50:00 AM	8.45	8.18	32.68	26.28	1.48	2.50	<0.1	<0.01
NF2	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:51:00 AM	8.47	8.21	32.70	26.31	1.54	3.00	<0.1	<0.01
NF2	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:51:00 AM	8.47	8.16	32.77	26.30	1.48	2.50	<0.1	<0.01
NF2	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:52:00 AM	8.44	8.17	32.68	26.39	1.54	3.00	<0.1	<0.01
NF2	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:52:00 AM	8.46	8.16	32.72	26.41	1.49	3.00	<0.1	<0.01
NF3	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:58:00 AM	8.90	8.25	33.57	26.20	1.48	2.50	<0.1	<0.01
NF3	4/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:58:00 AM	8.91	8.23	33.56	26.29	1.52	3.00	<0.1	<0.01
NF3	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:59:00 AM	8.88	8.26	33.51	26.22	1.52	2.50	<0.1	<0.01
NF3	4/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:59:00 AM	8.92	8.25	33.53	26.20	1.51	2.50	<0.1	<0.01
NF3	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:00:00 AM	8.87	8.25	33.49	26.18	1.46	3.00	<0.1	<0.01
NF3	4/06/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:00:00 AM	8.91	8.24	33.51	26.25	1.51	4.00	<0.1	<0.01
CE	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:17:00 AM	7.84	8.32	31.92	26.44	2.38	2.50	<0.1	<0.01
CE	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:17:00 AM	7.82	8.31	31.92	26.33	2.42	2.50	<0.1	<0.01
CE	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	12	10:18:00 AM	7.81	8.34	31.91	26.42	2.40	4.00	<0.1	<0.01
CE	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	12	10:18:00 AM	7.85	8.33	31.96	26.37	2.44	2.50	<0.1	<0.01
CE	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	23	10:19:00 AM	7.82	8.28	31.97	26.39	2.38	4.00	<0.1	<0.01
CE	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	23	10:19:00 AM	7.85	8.27	32.02	26.35	2.40	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
CF	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:35:00 PM	9.17	8.18	32.01	26.54	2.22	6.00	<0.1	<0.01
CF	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:35:00 PM	9.19	8.20	31.93	26.56	2.22	5.00	<0.1	<0.01
CF	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	10	1:36:00 PM	9.17	8.18	31.96	26.49	2.16	7.00	<0.1	<0.01
CF	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	10	1:36:00 PM	9.20	8.20	32.02	26.57	2.16	7.00	<0.1	<0.01
CF	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	19	1:37:00 PM	9.15	8.18	31.96	26.53	2.19	3.00	<0.1	<0.01
CF	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	19	1:37:00 PM	9.15	8.21	31.90	26.56	2.23	5.00	<0.1	<0.01
WSR01	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:09:00 PM	8.49	8.28	32.59	26.61	2.14	2.50	<0.1	<0.01
WSR01	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:09:00 PM	8.49	8.28	32.57	26.64	2.12	2.50	<0.1	<0.01
WSR01	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	1:10:00 PM	8.55	8.25	32.53	26.63	2.15	6.00	<0.1	<0.01
WSR01	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	1:10:00 PM	8.55	8.28	32.58	26.59	2.09	3.00	<0.1	<0.01
WSR01	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:11:00 PM	8.49	8.22	32.60	26.63	2.13	3.00	<0.1	<0.01
WSR01	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:11:00 PM	8.51	8.27	32.57	26.63	2.14	4.00	<0.1	<0.01
WSR02	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:48:00 PM	8.32	8.45	33.38	26.43	2.15	4.00	<0.1	<0.01
WSR02	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:48:00 PM	8.32	8.45	33.33	26.49	2.14	3.00	<0.1	<0.01
WSR02	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:49:00 PM	8.31	8.40	33.38	26.45	2.15	3.00	<0.1	<0.01
WSR02	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:49:00 PM	8.34	8.41	33.39	26.44	2.15	2.50	<0.1	<0.01
WSR02	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:50:00 PM	8.32	8.47	33.34	26.47	2.00	4.00	<0.1	<0.01
WSR02	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:50:00 PM	8.34	8.41	33.45	26.43	2.03	3.00	<0.1	<0.01
WSR03	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:30:00 PM	8.17	8.22	32.94	26.59	1.79	2.50	<0.1	<0.01
WSR03	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:30:00 PM	8.18	8.22	32.96	26.68	1.82	3.00	<0.1	<0.01
WSR03	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:31:00 PM	8.10	8.16	32.96	26.58	1.81	2.50	<0.1	<0.01
WSR03	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:31:00 PM	8.13	8.17	32.88	26.56	1.77	2.50	<0.1	<0.01
WSR03	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:32:00 PM	8.10	8.19	32.79	26.59	1.81	3.00	<0.1	<0.01
WSR03	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:32:00 PM	8.19	8.23	32.87	26.58	1.77	2.50	<0.1	<0.01
WSR04	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:15:00 PM	8.18	8.39	32.62	26.40	1.69	2.50	<0.1	<0.01
WSR04	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:15:00 PM	8.12	8.37	32.67	26.42	1.67	4.00	<0.1	<0.01
WSR04	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	3	12:16:00 PM	8.18	8.36	32.62	26.44	1.67	2.50	<0.1	<0.01
WSR04	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	3	12:16:00 PM	8.13	8.41	32.65	26.39	1.63	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR04	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:17:00 PM	8.14	8.39	32.55	26.47	1.68	4.00	<0.1	<0.01
WSR04	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:17:00 PM	8.12	8.37	32.54	26.38	1.65	2.50	<0.1	<0.01
WSR16	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:40:00 AM	8.24	8.43	33.25	26.45	1.58	3.00	<0.1	<0.01
WSR16	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:40:00 AM	8.18	8.43	33.26	26.43	1.57	4.00	<0.1	<0.01
WSR16	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	10:41:00 AM	8.15	8.41	33.31	26.44	1.56	2.50	<0.1	<0.01
WSR16	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	10:41:00 AM	8.17	8.38	33.30	26.47	1.59	2.50	<0.1	<0.01
WSR16	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	15	10:42:00 AM	8.23	8.43	33.21	26.45	1.60	2.50	<0.1	<0.01
WSR16	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	15	10:42:00 AM	8.20	8.36	33.24	26.49	1.57	3.00	<0.1	<0.01
WSR33	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:58:00 AM	8.84	8.25	32.57	26.28	1.81	2.50	<0.1	<0.01
WSR33	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:58:00 AM	8.91	8.27	32.67	26.28	1.82	3.00	<0.1	<0.01
WSR33	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:59:00 AM	8.86	8.29	32.62	26.27	1.86	4.00	<0.1	<0.01
WSR33	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:59:00 AM	8.84	8.23	32.64	26.34	1.80	2.50	<0.1	<0.01
WSR33	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:00:00 PM	8.88	8.30	32.61	26.35	1.85	3.00	<0.1	<0.01
WSR33	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:00:00 PM	8.91	8.30	32.66	26.28	1.82	2.50	<0.1	<0.01
WSR36	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:42:00 AM	8.54	8.23	33.20	26.50	1.77	2.50	<0.1	<0.01
WSR36	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:42:00 AM	8.61	8.28	33.09	26.43	1.75	2.50	<0.1	<0.01
WSR36	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:43:00 AM	8.61	8.27	33.09	26.47	1.71	2.50	<0.1	<0.01
WSR36	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:43:00 AM	8.61	8.28	33.07	26.51	1.75	4.00	<0.1	<0.01
WSR36	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	11:43:00 AM	8.54	8.27	33.06	26.51	1.76	3.00	<0.1	<0.01
WSR36	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	11:43:00 AM	8.52	8.27	33.14	26.42	1.72	3.00	<0.1	<0.01
WSR37	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:36:00 AM	8.39	8.28	32.43	26.31	1.94	3.00	<0.1	<0.01
WSR37	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:36:00 AM	8.38	8.23	32.45	26.29	1.94	4.00	<0.1	<0.01
WSR37	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:37:00 AM	8.33	8.27	32.52	26.33	1.93	2.50	<0.1	<0.01
WSR37	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:37:00 AM	8.37	8.27	32.50	26.36	1.94	2.50	<0.1	<0.01
WSR37	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:38:00 AM	8.30	8.27	32.58	26.31	1.91	2.50	<0.1	<0.01
WSR37	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:38:00 AM	8.30	8.25	32.43	26.31	1.93	2.50	<0.1	<0.01
NF1	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:04:00 AM	8.23	8.25	33.19	26.47	2.06	2.50	<0.1	<0.01
NF1	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:04:00 AM	8.21	8.23	33.11	26.48	2.09	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
NF1	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:05:00 AM	8.22	8.25	33.04	26.43	1.98	2.50	<0.1	<0.01
NF1	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:05:00 AM	8.25	8.22	33.09	26.47	2.16	4.00	<0.1	<0.01
NF1	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:06:00 AM	8.25	8.28	33.15	26.42	2.15	2.50	<0.1	<0.01
NF1	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:06:00 AM	8.20	8.25	33.09	26.48	2.15	3.00	<0.1	<0.01
NF2	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:21:00 AM	9.08	8.43	32.20	26.27	1.71	2.50	<0.1	<0.01
NF2	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:21:00 AM	9.07	8.37	32.20	26.31	1.70	2.50	<0.1	<0.01
NF2	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:22:00 AM	9.06	8.40	32.34	26.36	1.70	2.50	<0.1	<0.01
NF2	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:22:00 AM	9.03	8.43	32.34	26.31	1.72	2.50	<0.1	<0.01
NF2	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	10	11:23:00 AM	9.08	8.42	32.26	26.32	1.75	5.00	<0.1	<0.01
NF2	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	10	11:23:00 AM	9.04	8.37	32.26	26.33	1.72	3.00	<0.1	<0.01
NF3	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:29:00 AM	8.73	8.35	32.91	26.56	1.61	3.00	<0.1	<0.01
NF3	6/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:29:00 AM	8.73	8.30	32.85	26.56	1.62	2.50	<0.1	<0.01
NF3	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	11:30:00 AM	8.73	8.30	32.93	26.58	1.66	3.00	<0.1	<0.01
NF3	6/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	11:30:00 AM	8.67	8.35	32.91	26.50	1.66	3.00	<0.1	<0.01
NF3	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	12	11:31:00 AM	8.66	8.30	32.93	26.51	1.70	2.50	<0.1	<0.01
NF3	6/06/2024	Cloudy	Mid-Ebb	Moderate	В	12	11:31:00 AM	8.72	8.36	32.92	26.60	1.68	3.00	<0.1	<0.01
CE	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:00:00 AM	8.13	8.20	32.44	26.54	2.17	3.00	<0.1	<0.01
CE	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:00:00 AM	8.04	8.20	32.45	26.59	2.17	4.00	<0.1	<0.01
CE	8/06/2024	Cloudy	Mid-Flood	Moderate	М	12	11:01:00 AM	8.15	8.20	32.41	26.54	2.21	3.00	<0.1	<0.01
CE	8/06/2024	Cloudy	Mid-Flood	Moderate	М	12	11:01:00 AM	8.18	8.17	32.45	26.55	2.18	4.00	<0.1	<0.01
CE	8/06/2024	Cloudy	Mid-Flood	Moderate	В	23	11:02:00 AM	8.21	8.20	32.45	26.59	2.19	4.00	<0.1	<0.01
CE	8/06/2024	Cloudy	Mid-Flood	Moderate	В	23	11:02:00 AM	8.04	8.16	32.41	26.58	2.18	7.00	<0.1	<0.01
CF	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.36	8.29	31.76	26.47	2.44	3.00	<0.1	<0.01
CF	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.29	8.26	31.76	26.48	2.48	2.50	<0.1	<0.01
CF	8/06/2024	Cloudy	Mid-Flood	Moderate	М	10	8:01:00 AM	8.32	8.27	31.72	26.46	2.34	2.50	<0.1	<0.01
CF	8/06/2024	Cloudy	Mid-Flood	Moderate	М	10	8:01:00 AM	8.31	8.29	31.73	26.47	2.38	3.00	<0.1	<0.01
CF	8/06/2024	Cloudy	Mid-Flood	Moderate	В	20	8:02:00 AM	8.34	8.26	31.78	26.45	2.45	2.50	<0.1	<0.01
CF	8/06/2024	Cloudy	Mid-Flood	Moderate	В	20	8:02:00 AM	8.30	8.30	31.78	26.47	2.44	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR01	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:24:00 AM	9.04	8.18	31.73	26.53	1.91	2.50	<0.1	<0.01
WSR01	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:24:00 AM	9.05	8.16	31.75	26.52	1.89	2.50	<0.1	<0.01
WSR01	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	8:25:00 AM	8.98	8.19	31.76	26.51	1.93	5.00	<0.1	<0.01
WSR01	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	8:25:00 AM	9.01	8.20	31.71	26.55	1.89	3.00	<0.1	<0.01
WSR01	8/06/2024	Cloudy	Mid-Flood	Moderate	В	7	8:26:00 AM	8.99	8.20	31.75	26.51	1.94	4.00	<0.1	<0.01
WSR01	8/06/2024	Cloudy	Mid-Flood	Moderate	В	7	8:26:00 AM	9.00	8.16	31.73	26.53	1.88	4.00	<0.1	<0.01
WSR02	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:41:00 AM	8.26	8.37	32.33	26.45	1.84	4.00	<0.1	<0.01
WSR02	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:41:00 AM	8.25	8.35	32.32	26.40	1.84	3.00	<0.1	<0.01
WSR02	8/06/2024	Cloudy	Mid-Flood	Moderate	М	5	8:42:00 AM	8.23	8.38	32.32	26.43	1.88	2.50	<0.1	<0.01
WSR02	8/06/2024	Cloudy	Mid-Flood	Moderate	М	5	8:42:00 AM	8.24	8.36	32.36	26.43	1.87	2.50	<0.1	<0.01
WSR02	8/06/2024	Cloudy	Mid-Flood	Moderate	В	8	8:43:00 AM	8.26	8.35	32.33	26.45	1.87	2.50	<0.1	<0.01
WSR02	8/06/2024	Cloudy	Mid-Flood	Moderate	В	8	8:43:00 AM	8.20	8.35	32.33	26.45	1.82	2.50	<0.1	<0.01
WSR03	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:55:00 AM	8.08	8.37	32.06	26.58	2.07	2.50	<0.1	<0.01
WSR03	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:55:00 AM	8.09	8.37	32.10	26.58	2.14	2.50	<0.1	<0.01
WSR03	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	8:56:00 AM	8.12	8.33	32.11	26.55	2.05	2.50	<0.1	<0.01
WSR03	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	8:56:00 AM	8.09	8.35	32.09	26.59	2.09	2.50	<0.1	<0.01
WSR03	8/06/2024	Cloudy	Mid-Flood	Moderate	В	7	8:57:00 AM	8.13	8.36	32.10	26.58	2.09	2.50	<0.1	<0.01
WSR03	8/06/2024	Cloudy	Mid-Flood	Moderate	В	7	8:57:00 AM	8.13	8.33	32.07	26.57	2.07	4.00	<0.1	<0.01
WSR04	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:09:00 AM	8.08	8.21	33.13	26.39	1.82	2.50	<0.1	<0.01
WSR04	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:09:00 AM	8.11	8.21	33.08	26.40	1.78	4.00	<0.1	<0.01
WSR04	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:10:00 AM	8.19	8.22	33.12	26.39	1.76	2.50	<0.1	<0.01
WSR04	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:10:00 AM	8.24	8.22	33.09	26.35	1.81	2.50	<0.1	<0.01
WSR04	8/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:11:00 AM	8.29	8.18	33.13	26.40	1.78	2.50	<0.1	<0.01
WSR04	8/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:11:00 AM	8.24	8.23	33.08	26.37	1.78	3.00	<0.1	<0.01
WSR16	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:37:00 AM	8.61	8.25	32.86	26.61	1.68	2.50	<0.1	<0.01
WSR16	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:37:00 AM	8.63	8.25	32.88	26.62	1.70	2.50	<0.1	<0.01
WSR16	8/06/2024	Cloudy	Mid-Flood	Moderate	М	8	10:38:00 AM	8.64	8.23	32.91	26.63	1.69	3.00	<0.1	<0.01
WSR16	8/06/2024	Cloudy	Mid-Flood	Moderate	М	8	10:38:00 AM	8.59	8.24	32.86	26.63	1.73	5.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR16	8/06/2024	Cloudy	Mid-Flood	Moderate	В	15	10:39:00 AM	8.60	8.26	32.88	26.62	1.68	2.50	<0.1	<0.01
WSR16	8/06/2024	Cloudy	Mid-Flood	Moderate	В	15	10:39:00 AM	8.64	8.26	32.87	26.61	1.72	2.50	<0.1	<0.01
WSR33	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:24:00 AM	8.18	8.21	32.23	26.40	1.83	2.50	<0.1	<0.01
WSR33	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:24:00 AM	8.19	8.19	32.21	26.42	1.80	2.50	<0.1	<0.01
WSR33	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:25:00 AM	8.18	8.23	32.22	26.44	1.85	2.50	<0.1	<0.01
WSR33	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:25:00 AM	8.21	8.19	32.21	26.40	1.85	2.50	<0.1	<0.01
WSR33	8/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:26:00 AM	8.18	8.23	32.18	26.43	1.80	3.00	<0.1	<0.01
WSR33	8/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:26:00 AM	8.17	8.23	32.18	26.43	1.85	2.50	<0.1	<0.01
WSR36	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:41:00 AM	8.54	8.22	32.34	26.49	1.82	2.50	<0.1	<0.01
WSR36	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:41:00 AM	8.51	8.20	32.32	26.48	1.88	2.50	<0.1	<0.01
WSR36	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:42:00 AM	8.48	8.20	32.33	26.44	1.88	2.50	<0.1	<0.01
WSR36	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:42:00 AM	8.52	8.25	32.33	26.48	1.84	4.00	<0.1	<0.01
WSR36	8/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:42:00 AM	8.54	8.22	32.33	26.45	1.85	2.50	<0.1	<0.01
WSR36	8/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:42:00 AM	8.52	8.25	32.35	26.47	1.83	3.00	<0.1	<0.01
WSR37	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:58:00 AM	8.21	8.37	32.45	26.52	1.63	4.00	<0.1	<0.01
WSR37	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:58:00 AM	8.23	8.38	32.48	26.49	1.68	5.00	<0.1	<0.01
WSR37	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:59:00 AM	8.20	8.41	32.47	26.52	1.59	4.00	<0.1	<0.01
WSR37	8/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:59:00 AM	8.04	8.41	32.48	26.51	1.53	5.00	<0.1	<0.01
WSR37	8/06/2024	Cloudy	Mid-Flood	Moderate	В	7	10:00:00 AM	8.19	8.39	32.47	26.53	1.57	2.50	<0.1	<0.01
WSR37	8/06/2024	Cloudy	Mid-Flood	Moderate	В	7	10:00:00 AM	8.04	8.38	32.43	26.54	1.59	2.50	<0.1	<0.01
NF1	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:22:00 AM	8.67	8.21	32.64	26.57	1.59	2.50	<0.1	<0.01
NF1	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:22:00 AM	8.69	8.21	32.66	26.60	1.64	2.50	<0.1	<0.01
NF1	8/06/2024	Cloudy	Mid-Flood	Moderate	М	7	10:23:00 AM	8.71	8.24	32.68	26.60	1.60	2.50	<0.1	<0.01
NF1	8/06/2024	Cloudy	Mid-Flood	Moderate	М	7	10:23:00 AM	8.70	8.21	32.68	26.62	1.58	2.50	<0.1	<0.01
NF1	8/06/2024	Cloudy	Mid-Flood	Moderate	В	12	10:24:00 AM	8.66	8.20	32.67	26.61	1.63	2.50	<0.1	<0.01
NF1	8/06/2024	Cloudy	Mid-Flood	Moderate	В	12	10:24:00 AM	8.72	8.21	32.62	26.62	1.62	2.50	<0.1	<0.01
NF2	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:14:00 AM	8.19	8.34	31.85	26.45	1.68	2.50	<0.1	<0.01
NF2	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:14:00 AM	8.14	8.31	31.88	26.44	1.72	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
NF2	8/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:15:00 AM	8.21	8.33	31.89	26.48	1.68	3.00	<0.1	<0.01
NF2	8/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:15:00 AM	8.19	8.31	31.84	26.46	1.67	2.50	<0.1	<0.01
NF2	8/06/2024	Cloudy	Mid-Flood	Moderate	В	9	10:16:00 AM	8.17	8.32	31.86	26.46	1.70	2.50	<0.1	<0.01
NF2	8/06/2024	Cloudy	Mid-Flood	Moderate	В	9	10:16:00 AM	8.17	8.34	31.89	26.48	1.66	2.50	<0.1	<0.01
NF3	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:07:00 AM	8.40	8.35	33.19	26.77	1.64	2.50	<0.1	<0.01
NF3	8/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:07:00 AM	8.39	8.32	33.21	26.74	1.64	3.00	<0.1	<0.01
NF3	8/06/2024	Cloudy	Mid-Flood	Moderate	М	6	10:08:00 AM	8.39	8.35	33.18	26.77	1.58	4.00	<0.1	<0.01
NF3	8/06/2024	Cloudy	Mid-Flood	Moderate	М	6	10:08:00 AM	8.40	8.31	33.20	26.77	1.67	2.50	<0.1	<0.01
NF3	8/06/2024	Cloudy	Mid-Flood	Moderate	В	11	10:09:00 AM	8.39	8.35	33.21	26.75	1.59	2.50	<0.1	<0.01
NF3	8/06/2024	Cloudy	Mid-Flood	Moderate	В	11	10:09:00 AM	8.43	8.33	33.21	26.73	1.67	2.50	<0.1	<0.01
CE	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:12:00 AM	7.99	8.17	32.44	26.53	2.08	3.00	<0.1	<0.01
CE	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:12:00 AM	7.95	8.18	32.44	26.54	2.06	5.00	<0.1	<0.01
CE	11/06/2024	Cloudy	Mid-Flood	Moderate	М	11	11:13:00 AM	7.95	8.15	32.40	26.51	1.96	2.50	<0.1	<0.01
CE	11/06/2024	Cloudy	Mid-Flood	Moderate	М	11	11:13:00 AM	7.97	8.18	32.37	26.49	1.96	4.00	<0.1	<0.01
CE	11/06/2024	Cloudy	Mid-Flood	Moderate	В	20	11:14:00 AM	7.94	8.17	32.37	26.50	2.09	2.50	<0.1	<0.01
CE	11/06/2024	Cloudy	Mid-Flood	Moderate	В	20	11:14:00 AM	7.99	8.15	32.40	26.52	2.02	3.00	<0.1	<0.01
CF	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.12	8.16	32.90	26.89	2.47	4.00	<0.1	<0.01
CF	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.17	8.19	32.83	26.90	2.40	3.00	<0.1	<0.01
CF	11/06/2024	Cloudy	Mid-Flood	Moderate	М	10	8:01:00 AM	8.12	8.16	32.82	26.93	2.40	3.00	<0.1	<0.01
CF	11/06/2024	Cloudy	Mid-Flood	Moderate	М	10	8:01:00 AM	8.17	8.15	32.82	26.90	2.47	3.00	<0.1	<0.01
CF	11/06/2024	Cloudy	Mid-Flood	Moderate	В	19	8:02:00 AM	8.13	8.15	32.89	26.89	2.47	3.00	<0.1	<0.01
CF	11/06/2024	Cloudy	Mid-Flood	Moderate	В	19	8:02:00 AM	8.12	8.20	32.89	26.91	2.44	5.00	<0.1	<0.01
WSR01	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:26:00 AM	8.33	8.38	33.55	26.84	2.13	6.00	<0.1	<0.01
WSR01	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:26:00 AM	8.36	8.38	33.59	26.87	2.13	3.00	<0.1	<0.01
WSR01	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	8:27:00 AM	8.34	8.39	33.55	26.87	2.10	2.50	<0.1	<0.01
WSR01	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	8:27:00 AM	8.33	8.38	33.53	26.86	2.11	3.00	<0.1	<0.01
WSR01	11/06/2024	Cloudy	Mid-Flood	Moderate	В	8	8:28:00 AM	8.37	8.37	33.60	26.88	2.07	7.00	<0.1	<0.01
WSR01	11/06/2024	Cloudy	Mid-Flood	Moderate	В	8	8:28:00 AM	8.37	8.37	33.60	26.86	2.05	5.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR02	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:47:00 AM	8.19	8.30	33.23	26.85	2.12	2.50	<0.1	<0.01
WSR02	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:47:00 AM	8.21	8.30	33.15	26.83	2.09	4.00	<0.1	<0.01
WSR02	11/06/2024	Cloudy	Mid-Flood	Moderate	М	5	8:48:00 AM	8.22	8.31	33.23	26.85	2.12	2.50	<0.1	<0.01
WSR02	11/06/2024	Cloudy	Mid-Flood	Moderate	М	5	8:48:00 AM	8.22	8.30	33.24	26.87	2.08	2.50	<0.1	<0.01
WSR02	11/06/2024	Cloudy	Mid-Flood	Moderate	В	9	8:49:00 AM	8.19	8.30	33.20	26.84	2.10	3.00	<0.1	<0.01
WSR02	11/06/2024	Cloudy	Mid-Flood	Moderate	В	9	8:49:00 AM	8.20	8.31	33.15	26.87	2.13	2.50	<0.1	<0.01
WSR03	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:03:00 AM	8.99	8.26	33.22	26.71	1.87	2.50	<0.1	<0.01
WSR03	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:03:00 AM	8.97	8.26	33.15	26.72	1.86	2.50	<0.1	<0.01
WSR03	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:04:00 AM	8.96	8.31	33.15	26.69	1.80	2.50	<0.1	<0.01
WSR03	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:04:00 AM	8.96	8.27	33.16	26.69	1.80	2.50	<0.1	<0.01
WSR03	11/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:05:00 AM	8.94	8.31	33.19	26.73	1.79	2.50	<0.1	<0.01
WSR03	11/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:05:00 AM	8.98	8.29	33.18	26.70	1.84	2.50	<0.1	<0.01
WSR04	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:19:00 AM	8.77	8.39	32.99	26.52	1.82	3.00	<0.1	<0.01
WSR04	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:19:00 AM	8.78	8.34	32.95	26.52	1.80	2.50	<0.1	<0.01
WSR04	11/06/2024	Cloudy	Mid-Flood	Moderate	М	3	9:20:00 AM	8.75	8.37	32.98	26.50	1.79	3.00	<0.1	<0.01
WSR04	11/06/2024	Cloudy	Mid-Flood	Moderate	М	3	9:20:00 AM	8.78	8.36	32.94	26.48	1.82	2.50	<0.1	<0.01
WSR04	11/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:21:00 AM	8.80	8.38	32.97	26.53	1.76	2.50	<0.1	<0.01
WSR04	11/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:21:00 AM	8.79	8.38	32.95	26.49	1.81	3.00	<0.1	<0.01
WSR16	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:49:00 AM	8.16	8.17	32.80	26.61	1.82	4.00	<0.1	<0.01
WSR16	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:49:00 AM	8.13	8.19	32.79	26.62	1.89	3.00	<0.1	<0.01
WSR16	11/06/2024	Cloudy	Mid-Flood	Moderate	М	8	10:50:00 AM	8.12	8.18	32.83	26.58	1.91	3.00	<0.1	<0.01
WSR16	11/06/2024	Cloudy	Mid-Flood	Moderate	М	8	10:50:00 AM	8.12	8.19	32.79	26.61	1.99	2.50	<0.1	<0.01
WSR16	11/06/2024	Cloudy	Mid-Flood	Moderate	В	15	10:51:00 AM	8.15	8.15	32.82	26.61	1.88	4.00	<0.1	<0.01
WSR16	11/06/2024	Cloudy	Mid-Flood	Moderate	В	15	10:51:00 AM	8.13	8.17	32.87	26.61	1.82	5.00	<0.1	<0.01
WSR33	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:36:00 AM	8.02	8.32	32.73	26.52	1.98	2.50	<0.1	<0.01
WSR33	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:36:00 AM	7.98	8.33	32.71	26.48	1.95	2.50	<0.1	<0.01
WSR33	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:37:00 AM	7.97	8.29	32.64	26.52	2.03	2.50	<0.1	<0.01
WSR33	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:37:00 AM	7.98	8.33	32.68	26.48	2.08	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR33	11/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:38:00 AM	7.98	8.32	32.73	26.49	2.01	3.00	<0.1	<0.01
WSR33	11/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:38:00 AM	7.97	8.31	32.74	26.50	1.98	2.50	<0.1	<0.01
WSR36	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:53:00 AM	9.11	8.16	33.79	26.61	1.63	2.50	<0.1	<0.01
WSR36	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:53:00 AM	9.11	8.16	33.76	26.63	1.60	3.00	<0.1	<0.01
WSR36	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:54:00 AM	9.12	8.16	33.83	26.60	1.64	2.50	<0.1	<0.01
WSR36	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:54:00 AM	9.09	8.18	33.81	26.63	1.63	2.50	<0.1	<0.01
WSR36	11/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:54:00 AM	9.14	8.14	33.74	26.59	1.63	2.50	<0.1	<0.01
WSR36	11/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:54:00 AM	9.14	8.17	33.77	26.63	1.63	3.00	<0.1	<0.01
WSR37	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:10:00 AM	8.30	8.18	33.41	26.88	1.79	2.50	<0.1	<0.01
WSR37	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:10:00 AM	8.30	8.19	33.39	26.87	1.81	3.00	<0.1	<0.01
WSR37	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:11:00 AM	8.27	8.20	33.42	26.87	1.78	3.00	<0.1	<0.01
WSR37	11/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:11:00 AM	8.29	8.20	33.38	26.91	1.78	2.50	<0.1	<0.01
WSR37	11/06/2024	Cloudy	Mid-Flood	Moderate	В	8	10:12:00 AM	8.30	8.22	33.35	26.88	1.79	3.00	<0.1	<0.01
WSR37	11/06/2024	Cloudy	Mid-Flood	Moderate	В	8	10:12:00 AM	8.26	8.18	33.37	26.86	1.83	2.50	<0.1	<0.01
NF1	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:34:00 AM	8.15	8.37	32.66	26.95	2.12	2.50	<0.1	<0.01
NF1	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:34:00 AM	8.16	8.37	32.67	26.91	2.08	3.00	<0.1	<0.01
NF1	11/06/2024	Cloudy	Mid-Flood	Moderate	М	7	10:35:00 AM	8.12	8.37	32.62	26.90	2.09	2.50	<0.1	<0.01
NF1	11/06/2024	Cloudy	Mid-Flood	Moderate	М	7	10:35:00 AM	8.16	8.37	32.59	26.90	2.05	3.00	<0.1	<0.01
NF1	11/06/2024	Cloudy	Mid-Flood	Moderate	В	13	10:36:00 AM	8.14	8.40	32.65	26.91	2.09	2.50	<0.1	<0.01
NF1	11/06/2024	Cloudy	Mid-Flood	Moderate	В	13	10:36:00 AM	8.15	8.38	32.58	26.92	2.09	2.50	<0.1	<0.01
NF2	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:26:00 AM	7.83	8.37	33.71	26.52	1.81	2.50	<0.1	<0.01
NF2	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:26:00 AM	7.85	8.40	33.65	26.53	1.77	2.50	<0.1	<0.01
NF2	11/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:27:00 AM	7.84	8.35	33.70	26.52	1.79	2.50	<0.1	<0.01
NF2	11/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:27:00 AM	7.83	8.38	33.65	26.54	1.80	2.50	<0.1	<0.01
NF2	11/06/2024	Cloudy	Mid-Flood	Moderate	В	10	10:28:00 AM	7.85	8.35	33.66	26.53	1.80	4.00	<0.1	<0.01
NF2	11/06/2024	Cloudy	Mid-Flood	Moderate	В	10	10:28:00 AM	7.88	8.36	33.66	26.56	1.81	2.50	<0.1	<0.01
NF3	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:19:00 AM	8.52	8.22	33.93	26.67	1.61	3.00	<0.1	<0.01
NF3	11/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:19:00 AM	8.50	8.21	33.90	26.68	1.58	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
NF3	11/06/2024	Cloudy	Mid-Flood	Moderate	М	6	10:20:00 AM	8.52	8.21	33.94	26.67	1.57	3.00	<0.1	<0.01
NF3	11/06/2024	Cloudy	Mid-Flood	Moderate	М	6	10:20:00 AM	8.47	8.23	33.97	26.67	1.53	3.00	<0.1	<0.01
NF3	11/06/2024	Cloudy	Mid-Flood	Moderate	В	11	10:21:00 AM	8.48	8.20	33.94	26.64	1.57	5.00	<0.1	<0.01
NF3	11/06/2024	Cloudy	Mid-Flood	Moderate	В	11	10:21:00 AM	8.48	8.25	33.88	26.66	1.59	4.00	<0.1	<0.01
CE	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:48:00 AM	8.31	8.02	32.11	26.18	2.06	2.50	<0.1	<0.01
CE	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:48:00 AM	8.32	7.96	32.08	26.20	2.16	2.50	<0.1	<0.01
CE	13/06/2024	Cloudy	Mid-Flood	Moderate	М	12	11:49:00 AM	8.30	8.00	32.09	26.18	2.21	2.50	<0.1	<0.01
CE	13/06/2024	Cloudy	Mid-Flood	Moderate	М	12	11:49:00 AM	8.26	7.96	32.10	26.18	2.13	2.50	<0.1	<0.01
CE	13/06/2024	Cloudy	Mid-Flood	Moderate	В	23	11:50:00 AM	8.27	7.97	32.14	26.21	2.12	2.50	<0.1	<0.01
CE	13/06/2024	Cloudy	Mid-Flood	Moderate	В	23	11:50:00 AM	8.28	7.98	32.14	26.22	2.15	2.50	<0.1	<0.01
CF	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:54:00 AM	9.04	8.21	31.83	26.32	2.57	2.50	<0.1	<0.01
CF	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:54:00 AM	9.03	8.20	31.81	26.32	2.48	3.00	<0.1	<0.01
CF	13/06/2024	Cloudy	Mid-Flood	Moderate	М	10	8:55:00 AM	9.02	8.18	31.86	26.28	2.45	2.50	<0.1	<0.01
CF	13/06/2024	Cloudy	Mid-Flood	Moderate	М	10	8:55:00 AM	9.00	8.21	31.83	26.27	2.47	3.00	<0.1	<0.01
CF	13/06/2024	Cloudy	Mid-Flood	Moderate	В	18	8:56:00 AM	9.04	8.16	31.79	26.31	2.43	3.00	<0.1	<0.01
CF	13/06/2024	Cloudy	Mid-Flood	Moderate	В	18	8:56:00 AM	9.03	8.20	31.86	26.26	2.38	2.50	<0.1	<0.01
WSR01	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:18:00 AM	8.33	8.26	31.41	26.22	1.83	2.50	<0.1	<0.01
WSR01	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:18:00 AM	8.35	8.30	31.41	26.19	1.86	2.50	<0.1	<0.01
WSR01	13/06/2024	Cloudy	Mid-Flood	Moderate	М	5	9:19:00 AM	8.34	8.29	31.37	26.22	1.84	2.50	<0.1	<0.01
WSR01	13/06/2024	Cloudy	Mid-Flood	Moderate	М	5	9:19:00 AM	8.34	8.30	31.36	26.22	1.86	2.50	<0.1	<0.01
WSR01	13/06/2024	Cloudy	Mid-Flood	Moderate	В	8	9:20:00 AM	8.33	8.30	31.37	26.18	1.83	2.50	<0.1	<0.01
WSR01	13/06/2024	Cloudy	Mid-Flood	Moderate	В	8	9:20:00 AM	8.32	8.25	31.40	26.18	1.83	2.50	<0.1	<0.01
WSR02	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:36:00 AM	9.25	8.10	31.99	26.10	1.80	2.50	<0.1	<0.01
WSR02	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:36:00 AM	9.26	8.08	31.92	26.07	1.80	2.50	<0.1	<0.01
WSR02	13/06/2024	Cloudy	Mid-Flood	Moderate	М	5	9:37:00 AM	9.26	8.11	31.93	26.12	1.79	2.50	<0.1	<0.01
WSR02	13/06/2024	Cloudy	Mid-Flood	Moderate	М	5	9:37:00 AM	9.27	8.13	31.94	26.12	1.81	2.50	<0.1	<0.01
WSR02	13/06/2024	Cloudy	Mid-Flood	Moderate	В	8	9:38:00 AM	9.26	8.14	31.96	26.07	1.80	3.00	<0.1	<0.01
WSR02	13/06/2024	Cloudy	Mid-Flood	Moderate	В	8	9:38:00 AM	9.27	8.12	31.99	26.07	1.79	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR03	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:49:00 AM	8.13	8.12	31.48	26.33	1.58	2.50	<0.1	<0.01
WSR03	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:49:00 AM	8.09	8.06	31.47	26.30	1.58	4.00	<0.1	<0.01
WSR03	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:50:00 AM	8.10	8.10	31.46	26.32	1.58	3.00	<0.1	<0.01
WSR03	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:50:00 AM	8.12	8.06	31.44	26.27	1.60	2.50	<0.1	<0.01
WSR03	13/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:51:00 AM	8.09	8.09	31.53	26.30	1.56	2.50	<0.1	<0.01
WSR03	13/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:51:00 AM	8.12	8.07	31.46	26.31	1.56	3.00	<0.1	<0.01
WSR04	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:02:00 AM	8.25	8.02	31.88	26.20	1.61	7.00	<0.1	<0.01
WSR04	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:02:00 AM	8.28	8.03	31.93	26.14	1.58	9.00	<0.1	<0.01
WSR04	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:03:00 AM	8.23	8.07	31.92	26.19	1.61	9.00	<0.1	<0.01
WSR04	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:03:00 AM	8.25	8.02	31.90	26.15	1.56	5.00	<0.1	<0.01
WSR04	13/06/2024	Cloudy	Mid-Flood	Moderate	В	7	10:04:00 AM	8.28	8.01	31.89	26.18	1.60	3.00	<0.1	<0.01
WSR04	13/06/2024	Cloudy	Mid-Flood	Moderate	В	7	10:04:00 AM	8.27	8.06	31.90	26.20	1.57	6.00	<0.1	<0.01
WSR16	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:26:00 AM	8.20	8.00	32.14	26.22	1.60	9.00	<0.1	<0.01
WSR16	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:26:00 AM	8.24	8.00	32.14	26.24	1.60	5.00	<0.1	<0.01
WSR16	13/06/2024	Cloudy	Mid-Flood	Moderate	М	8	11:27:00 AM	8.21	7.97	32.13	26.23	1.58	5.00	<0.1	<0.01
WSR16	13/06/2024	Cloudy	Mid-Flood	Moderate	М	8	11:27:00 AM	8.22	7.98	32.13	26.24	1.60	7.00	<0.1	<0.01
WSR16	13/06/2024	Cloudy	Mid-Flood	Moderate	В	16	11:28:00 AM	8.19	7.99	32.14	26.20	1.58	3.00	<0.1	<0.01
WSR16	13/06/2024	Cloudy	Mid-Flood	Moderate	В	16	11:28:00 AM	8.24	7.98	32.10	26.20	1.59	3.00	<0.1	<0.01
WSR33	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:15:00 AM	8.12	8.06	32.02	26.30	2.05	3.00	<0.1	<0.01
WSR33	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:15:00 AM	8.09	8.06	31.97	26.28	2.06	4.00	<0.1	<0.01
WSR33	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:16:00 AM	8.13	8.11	32.05	26.25	2.06	3.00	<0.1	<0.01
WSR33	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:16:00 AM	8.14	8.06	31.98	26.28	2.08	2.50	<0.1	<0.01
WSR33	13/06/2024	Cloudy	Mid-Flood	Moderate	В	6	10:17:00 AM	8.08	8.12	31.98	26.28	2.08	5.00	<0.1	<0.01
WSR33	13/06/2024	Cloudy	Mid-Flood	Moderate	В	6	10:17:00 AM	8.11	8.12	31.96	26.27	2.05	6.00	<0.1	<0.01
WSR36	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:32:00 AM	7.94	8.15	32.09	26.11	1.53	4.00	<0.1	<0.01
WSR36	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:32:00 AM	7.91	8.14	32.04	26.17	1.50	6.00	<0.1	<0.01
WSR36	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:33:00 AM	7.92	8.15	32.12	26.13	1.51	2.50	<0.1	<0.01
WSR36	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:33:00 AM	7.93	8.13	32.10	26.12	1.51	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR36	13/06/2024	Cloudy	Mid-Flood	Moderate	В	6	10:33:00 AM	7.94	8.17	32.11	26.14	1.54	3.00	<0.1	<0.01
WSR36	13/06/2024	Cloudy	Mid-Flood	Moderate	В	6	10:33:00 AM	7.93	8.17	32.06	26.14	1.52	3.00	<0.1	<0.01
WSR37	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:49:00 AM	8.82	8.08	31.72	26.30	1.55	6.00	<0.1	<0.01
WSR37	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:49:00 AM	8.80	8.12	31.78	26.26	1.57	4.00	<0.1	<0.01
WSR37	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:50:00 AM	8.82	8.12	31.75	26.29	1.56	6.00	<0.1	<0.01
WSR37	13/06/2024	Cloudy	Mid-Flood	Moderate	М	4	10:50:00 AM	8.83	8.13	31.72	26.26	1.53	3.00	<0.1	<0.01
WSR37	13/06/2024	Cloudy	Mid-Flood	Moderate	В	8	10:51:00 AM	8.83	8.12	31.73	26.28	1.57	4.00	<0.1	<0.01
WSR37	13/06/2024	Cloudy	Mid-Flood	Moderate	В	8	10:51:00 AM	8.82	8.12	31.73	26.30	1.53	5.00	<0.1	<0.01
NF1	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:13:00 AM	8.12	8.11	31.95	26.25	1.69	6.00	<0.1	<0.01
NF1	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:13:00 AM	8.10	8.10	32.02	26.29	1.57	8.00	<0.1	<0.01
NF1	13/06/2024	Cloudy	Mid-Flood	Moderate	М	7	11:14:00 AM	8.09	8.07	32.00	26.27	1.68	3.00	<0.1	<0.01
NF1	13/06/2024	Cloudy	Mid-Flood	Moderate	М	7	11:14:00 AM	8.13	8.08	31.95	26.28	1.57	6.00	<0.1	<0.01
NF1	13/06/2024	Cloudy	Mid-Flood	Moderate	В	13	11:15:00 AM	8.07	8.12	32.02	26.29	1.61	4.00	<0.1	<0.01
NF1	13/06/2024	Cloudy	Mid-Flood	Moderate	В	13	11:15:00 AM	8.09	8.12	31.97	26.24	1.61	2.50	<0.1	<0.01
NF2	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:05:00 AM	8.28	8.06	31.76	26.49	1.65	3.00	<0.1	<0.01
NF2	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:05:00 AM	8.24	8.05	31.77	26.44	1.65	3.00	<0.1	<0.01
NF2	13/06/2024	Cloudy	Mid-Flood	Moderate	М	5	11:06:00 AM	8.25	8.07	31.81	26.43	1.62	3.00	<0.1	<0.01
NF2	13/06/2024	Cloudy	Mid-Flood	Moderate	М	5	11:06:00 AM	8.25	8.08	31.85	26.44	1.65	3.00	<0.1	<0.01
NF2	13/06/2024	Cloudy	Mid-Flood	Moderate	В	9	11:07:00 AM	8.28	8.04	31.80	26.46	1.68	3.00	<0.1	<0.01
NF2	13/06/2024	Cloudy	Mid-Flood	Moderate	В	9	11:07:00 AM	8.28	8.09	31.85	26.43	1.69	4.00	<0.1	<0.01
NF3	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:58:00 AM	8.72	8.08	32.60	26.35	1.95	9.00	<0.1	<0.01
NF3	13/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:58:00 AM	8.70	8.08	32.59	26.36	1.96	8.00	<0.1	<0.01
NF3	13/06/2024	Cloudy	Mid-Flood	Moderate	М	6	10:59:00 AM	8.72	8.07	32.58	26.33	1.97	7.00	<0.1	<0.01
NF3	13/06/2024	Cloudy	Mid-Flood	Moderate	М	6	10:59:00 AM	8.73	8.04	32.56	26.32	1.95	5.00	<0.1	<0.01
NF3	13/06/2024	Cloudy	Mid-Flood	Moderate	В	12	11:00:00 AM	8.73	8.05	32.59	26.32	1.98	6.00	<0.1	<0.01
NF3	13/06/2024	Cloudy	Mid-Flood	Moderate	В	12	11:00:00 AM	8.71	8.05	32.59	26.34	1.94	7.00	<0.1	<0.01
CE	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:00:00 AM	9.17	8.14	33.10	26.22	2.63	2.50	<0.1	<0.01
CE	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:00:00 AM	9.19	8.16	33.13	26.22	2.58	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
CE	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:01:00 AM	9.17	8.15	33.16	26.24	2.64	2.50	<0.1	<0.01
CE	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:01:00 AM	9.11	8.13	33.15	26.27	2.56	2.50	<0.1	<0.01
CE	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	22	8:02:00 AM	9.10	8.14	33.19	26.21	2.60	2.50	<0.1	<0.01
CE	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	22	8:02:00 AM	9.11	8.13	33.18	26.20	2.57	2.50	<0.1	<0.01
CF	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:10:00 AM	8.49	8.07	32.92	26.22	1.89	2.50	<0.1	<0.01
CF	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:10:00 AM	8.55	8.07	32.92	26.22	1.87	3.00	<0.1	<0.01
CF	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:11:00 AM	8.50	8.07	32.87	26.21	1.87	2.50	<0.1	<0.01
CF	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:11:00 AM	8.56	8.12	32.94	26.19	1.84	3.00	<0.1	<0.01
CF	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	21	11:12:00 AM	8.57	8.10	32.95	26.22	1.85	3.00	<0.1	<0.01
CF	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	21	11:12:00 AM	8.50	8.07	32.94	26.20	1.87	2.50	<0.1	<0.01
WSR01	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:44:00 AM	8.82	8.14	33.01	26.36	2.11	2.50	<0.1	<0.01
WSR01	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:44:00 AM	8.76	8.16	32.96	26.32	2.10	2.50	<0.1	<0.01
WSR01	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:45:00 AM	8.84	8.16	32.98	26.37	2.17	2.50	<0.1	<0.01
WSR01	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:45:00 AM	8.86	8.11	32.95	26.34	2.11	2.50	<0.1	<0.01
WSR01	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:46:00 AM	8.84	8.16	33.01	26.30	2.16	2.50	<0.1	<0.01
WSR01	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:46:00 AM	8.79	8.12	32.97	26.32	2.14	2.50	<0.1	<0.01
WSR02	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:24:00 AM	8.06	8.28	33.74	26.22	2.23	2.50	<0.1	<0.01
WSR02	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:24:00 AM	8.15	8.29	33.73	26.28	2.04	2.50	<0.1	<0.01
WSR02	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:25:00 AM	8.07	8.29	33.68	26.26	2.06	2.50	<0.1	<0.01
WSR02	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:25:00 AM	8.13	8.31	33.71	26.22	2.04	2.50	<0.1	<0.01
WSR02	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:26:00 AM	8.00	8.31	33.73	26.21	2.04	3.00	<0.1	<0.01
WSR02	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:26:00 AM	8.07	8.28	33.70	26.27	2.08	2.50	<0.1	<0.01
WSR03	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:06:00 AM	8.50	8.24	32.51	26.13	1.72	2.50	<0.1	<0.01
WSR03	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:06:00 AM	8.50	8.28	32.59	26.15	1.61	4.00	<0.1	<0.01
WSR03	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:07:00 AM	8.50	8.29	32.59	26.18	1.61	3.00	<0.1	<0.01
WSR03	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:07:00 AM	8.53	8.24	32.53	26.13	1.65	2.50	<0.1	<0.01
WSR03	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:08:00 AM	8.52	8.29	32.53	26.14	1.70	2.50	<0.1	<0.01
WSR03	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:08:00 AM	8.56	8.24	32.54	26.17	1.69	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR04	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:53:00 AM	9.13	8.25	32.82	26.07	2.21	7.00	<0.1	<0.01
WSR04	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:53:00 AM	9.08	8.29	32.87	26.09	2.09	9.00	<0.1	<0.01
WSR04	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:54:00 AM	9.07	8.30	32.84	26.10	2.23	9.00	<0.1	<0.01
WSR04	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:54:00 AM	9.10	8.26	32.88	26.10	2.11	5.00	<0.1	<0.01
WSR04	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:55:00 AM	9.16	8.30	32.82	26.07	2.20	3.00	<0.1	<0.01
WSR04	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:55:00 AM	9.03	8.26	32.85	26.07	2.13	6.00	<0.1	<0.01
WSR16	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:24:00 AM	9.26	8.26	32.30	26.11	1.50	9.00	<0.1	<0.01
WSR16	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:24:00 AM	9.15	8.24	32.27	26.10	1.45	5.00	<0.1	<0.01
WSR16	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	8:25:00 AM	9.15	8.25	32.27	26.11	1.47	5.00	<0.1	<0.01
WSR16	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	8:25:00 AM	9.17	8.25	32.28	26.08	1.45	7.00	<0.1	<0.01
WSR16	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	15	8:26:00 AM	9.18	8.26	32.33	26.08	1.50	3.00	<0.1	<0.01
WSR16	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	15	8:26:00 AM	9.16	8.28	32.33	26.07	1.52	3.00	<0.1	<0.01
WSR33	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:38:00 AM	8.65	8.15	33.22	26.18	1.62	3.00	<0.1	<0.01
WSR33	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:38:00 AM	8.62	8.11	33.21	26.15	1.67	4.00	<0.1	<0.01
WSR33	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:39:00 AM	8.71	8.15	33.23	26.20	1.71	3.00	<0.1	<0.01
WSR33	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:39:00 AM	8.63	8.12	33.24	26.20	1.61	2.50	<0.1	<0.01
WSR33	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:40:00 AM	8.67	8.11	33.22	26.15	1.63	5.00	<0.1	<0.01
WSR33	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:40:00 AM	8.66	8.13	33.21	26.20	1.63	6.00	<0.1	<0.01
WSR36	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:22:00 AM	8.99	8.05	32.74	26.17	1.52	4.00	<0.1	<0.01
WSR36	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:22:00 AM	8.95	8.07	32.68	26.14	1.58	6.00	<0.1	<0.01
WSR36	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:23:00 AM	9.02	8.08	32.72	26.17	1.58	2.50	<0.1	<0.01
WSR36	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:23:00 AM	8.89	8.06	32.67	26.16	1.58	3.00	<0.1	<0.01
WSR36	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:23:00 AM	8.89	8.09	32.69	26.14	1.63	3.00	<0.1	<0.01
WSR36	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:23:00 AM	9.00	8.04	32.71	26.11	1.56	3.00	<0.1	<0.01
WSR37	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:16:00 AM	9.17	8.13	32.38	26.32	1.81	6.00	<0.1	<0.01
WSR37	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:16:00 AM	9.15	8.09	32.42	26.27	1.79	4.00	<0.1	<0.01
WSR37	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:17:00 AM	9.13	8.09	32.40	26.26	1.74	6.00	<0.1	<0.01
WSR37	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:17:00 AM	9.14	8.11	32.40	26.30	1.83	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR37	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:18:00 AM	9.13	8.09	32.41	26.31	1.81	4.00	<0.1	<0.01
WSR37	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:18:00 AM	9.17	8.11	32.34	26.25	1.82	5.00	<0.1	<0.01
NF1	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:46:00 AM	9.06	8.23	32.78	26.21	1.46	6.00	<0.1	<0.01
NF1	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:46:00 AM	9.10	8.23	32.78	26.17	1.47	8.00	<0.1	<0.01
NF1	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	8:47:00 AM	9.11	8.26	32.72	26.16	1.53	3.00	<0.1	<0.01
NF1	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	8:47:00 AM	9.06	8.25	32.76	26.19	1.49	6.00	<0.1	<0.01
NF1	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	8:48:00 AM	9.14	8.26	32.72	26.18	1.49	4.00	<0.1	<0.01
NF1	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	8:48:00 AM	9.05	8.24	32.74	26.21	1.50	2.50	<0.1	<0.01
NF2	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:01:00 AM	8.93	8.29	33.47	26.07	1.46	3.00	<0.1	<0.01
NF2	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:01:00 AM	8.87	8.28	33.47	26.14	1.46	3.00	<0.1	<0.01
NF2	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:02:00 AM	8.92	8.29	33.49	26.07	1.48	3.00	<0.1	<0.01
NF2	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:02:00 AM	8.94	8.30	33.51	26.11	1.49	3.00	<0.1	<0.01
NF2	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:03:00 AM	9.00	8.29	33.53	26.07	1.33	3.00	<0.1	<0.01
NF2	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:03:00 AM	8.96	8.27	33.47	26.07	1.41	4.00	<0.1	<0.01
NF3	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:09:00 AM	8.25	8.24	32.37	26.11	2.08	9.00	<0.1	<0.01
NF3	15/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:09:00 AM	8.22	8.25	32.38	26.14	2.11	8.00	<0.1	<0.01
NF3	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:10:00 AM	8.29	8.26	32.38	26.16	2.13	7.00	<0.1	<0.01
NF3	15/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:10:00 AM	8.21	8.25	32.37	26.11	2.15	5.00	<0.1	<0.01
NF3	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	11	9:11:00 AM	8.32	8.29	32.33	26.14	2.14	6.00	<0.1	<0.01
NF3	15/06/2024	Cloudy	Mid-Ebb	Moderate	В	11	9:11:00 AM	8.35	8.26	32.36	26.14	2.18	7.00	<0.1	<0.01
CE	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:16:00 AM	9.51	8.14	32.57	26.07	2.61	2.50	<0.1	<0.01
CE	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:16:00 AM	9.50	8.11	32.62	26.05	2.57	2.50	<0.1	<0.01
CE	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:17:00 AM	9.45	8.13	32.65	26.06	2.43	2.50	<0.1	<0.01
CE	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:17:00 AM	9.52	8.12	32.67	26.03	2.49	2.50	<0.1	<0.01
CE	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	21	8:18:00 AM	9.48	8.11	32.70	26.04	2.37	2.50	<0.1	<0.01
CE	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	21	8:18:00 AM	9.44	8.13	32.62	26.06	2.41	2.50	<0.1	<0.01
CF	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:25:00 AM	8.88	8.29	32.08	25.88	2.37	2.50	<0.1	<0.01
CF	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:25:00 AM	8.87	8.31	32.04	25.87	2.38	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
CF	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:26:00 AM	8.87	8.30	32.03	25.88	2.30	2.50	<0.1	<0.01
CF	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:26:00 AM	8.90	8.29	32.02	25.91	2.30	3.00	<0.1	<0.01
CF	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	11:27:00 AM	8.88	8.31	32.05	25.88	2.27	3.00	<0.1	<0.01
CF	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	11:27:00 AM	8.92	8.29	32.01	25.90	2.20	2.50	<0.1	<0.01
WSR01	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:01:00 AM	9.30	8.24	32.91	25.87	2.05	2.50	<0.1	<0.01
WSR01	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:01:00 AM	9.29	8.22	32.97	25.87	2.02	2.50	<0.1	<0.01
WSR01	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:02:00 AM	9.35	8.22	32.98	25.82	2.05	2.50	<0.1	<0.01
WSR01	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:02:00 AM	9.28	8.25	32.99	25.83	2.07	2.50	<0.1	<0.01
WSR01	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:03:00 AM	9.32	8.25	32.94	25.85	2.05	2.50	<0.1	<0.01
WSR01	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:03:00 AM	9.31	8.23	32.98	25.83	2.02	2.50	<0.1	<0.01
WSR02	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:40:00 AM	9.07	8.15	33.19	26.09	1.93	2.50	<0.1	<0.01
WSR02	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:40:00 AM	9.05	8.17	33.25	26.05	1.98	2.50	<0.1	<0.01
WSR02	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:41:00 AM	9.03	8.17	33.28	26.05	1.97	2.50	<0.1	<0.01
WSR02	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:41:00 AM	9.09	8.13	33.23	26.07	1.94	2.50	<0.1	<0.01
WSR02	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:42:00 AM	9.09	8.13	33.21	26.06	1.97	3.00	<0.1	<0.01
WSR02	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:42:00 AM	9.08	8.15	33.24	26.09	1.95	2.50	<0.1	<0.01
WSR03	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:24:00 AM	9.00	8.07	32.21	25.95	1.98	2.50	<0.1	<0.01
WSR03	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:24:00 AM	9.06	8.06	32.25	25.95	1.95	4.00	<0.1	<0.01
WSR03	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:25:00 AM	9.09	8.06	32.22	25.90	1.99	3.00	<0.1	<0.01
WSR03	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:25:00 AM	9.00	8.07	32.21	25.91	1.98	2.50	<0.1	<0.01
WSR03	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:26:00 AM	9.09	8.08	32.31	25.94	2.01	2.50	<0.1	<0.01
WSR03	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:26:00 AM	9.00	8.09	32.28	25.95	1.96	3.00	<0.1	<0.01
WSR04	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:11:00 AM	7.99	8.36	32.44	25.78	1.77	7.00	<0.1	<0.01
WSR04	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:11:00 AM	7.98	8.36	32.39	25.81	1.74	9.00	<0.1	<0.01
WSR04	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	3	10:12:00 AM	8.00	8.33	32.45	25.79	1.72	9.00	<0.1	<0.01
WSR04	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	3	10:12:00 AM	8.02	8.33	32.43	25.77	1.71	5.00	<0.1	<0.01
WSR04	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:13:00 AM	7.97	8.37	32.40	25.80	1.77	3.00	<0.1	<0.01
WSR04	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:13:00 AM	8.02	8.37	32.51	25.80	1.71	6.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR16	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:39:00 AM	8.22	8.28	32.76	25.78	2.02	9.00	<0.1	<0.01
WSR16	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:39:00 AM	8.16	8.29	32.68	25.79	2.00	5.00	<0.1	<0.01
WSR16	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	8:40:00 AM	8.18	8.30	32.74	25.79	1.99	5.00	<0.1	<0.01
WSR16	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	8:40:00 AM	8.17	8.32	32.67	25.77	1.92	7.00	<0.1	<0.01
WSR16	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	16	8:41:00 AM	8.13	8.31	32.72	25.77	1.98	3.00	<0.1	<0.01
WSR16	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	16	8:41:00 AM	8.16	8.32	32.74	25.78	1.96	3.00	<0.1	<0.01
WSR33	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:54:00 AM	8.85	8.21	33.16	25.87	1.37	3.00	<0.1	<0.01
WSR33	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:54:00 AM	8.86	8.21	33.22	25.87	1.32	4.00	<0.1	<0.01
WSR33	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:55:00 AM	8.85	8.20	33.25	25.90	1.32	3.00	<0.1	<0.01
WSR33	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:55:00 AM	8.84	8.19	33.29	25.88	1.31	2.50	<0.1	<0.01
WSR33	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:56:00 AM	8.84	8.20	33.19	25.90	1.33	5.00	<0.1	<0.01
WSR33	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:56:00 AM	8.89	8.21	33.21	25.88	1.36	6.00	<0.1	<0.01
WSR36	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:38:00 AM	8.89	8.35	33.20	25.83	2.00	4.00	<0.1	<0.01
WSR36	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:38:00 AM	8.89	8.35	33.25	25.82	1.96	6.00	<0.1	<0.01
WSR36	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	3	9:39:00 AM	8.94	8.34	33.28	25.84	1.97	2.50	<0.1	<0.01
WSR36	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	3	9:39:00 AM	8.97	8.36	33.23	25.85	1.97	3.00	<0.1	<0.01
WSR36	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:39:00 AM	8.93	8.32	33.26	25.86	1.96	3.00	<0.1	<0.01
WSR36	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:39:00 AM	8.96	8.32	33.23	25.86	1.99	3.00	<0.1	<0.01
WSR37	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:32:00 AM	9.38	8.14	32.97	25.84	1.58	6.00	<0.1	<0.01
WSR37	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:32:00 AM	9.40	8.17	32.93	25.82	1.58	4.00	<0.1	<0.01
WSR37	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:33:00 AM	9.42	8.15	32.92	25.86	1.57	6.00	<0.1	<0.01
WSR37	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:33:00 AM	9.34	8.15	32.85	25.85	1.60	3.00	<0.1	<0.01
WSR37	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	9:34:00 AM	9.37	8.13	32.89	25.86	1.60	4.00	<0.1	<0.01
WSR37	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	9:34:00 AM	9.35	8.16	32.96	25.85	1.60	5.00	<0.1	<0.01
NF1	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:01:00 AM	8.71	8.13	32.98	25.91	1.74	6.00	<0.1	<0.01
NF1	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:01:00 AM	8.78	8.16	33.04	25.94	1.76	8.00	<0.1	<0.01
NF1	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	9:02:00 AM	8.73	8.16	33.10	25.93	1.76	3.00	<0.1	<0.01
NF1	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	9:02:00 AM	8.76	8.14	33.11	25.91	1.78	6.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
NF1	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	9:03:00 AM	8.71	8.13	33.00	25.92	1.79	4.00	<0.1	<0.01
NF1	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	9:03:00 AM	8.71	8.15	33.09	25.92	1.79	2.50	<0.1	<0.01
NF2	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:17:00 AM	8.80	8.19	32.64	25.80	1.87	3.00	<0.1	<0.01
NF2	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:17:00 AM	8.81	8.21	32.58	25.82	2.14	3.00	<0.1	<0.01
NF2	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:18:00 AM	8.80	8.21	32.55	25.81	1.88	3.00	<0.1	<0.01
NF2	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:18:00 AM	8.79	8.19	32.55	25.81	1.88	3.00	<0.1	<0.01
NF2	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:19:00 AM	8.81	8.23	32.56	25.79	2.14	3.00	<0.1	<0.01
NF2	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:19:00 AM	8.88	8.19	32.56	25.82	2.13	4.00	<0.1	<0.01
NF3	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:25:00 AM	8.52	8.16	33.08	25.94	1.60	9.00	<0.1	<0.01
NF3	18/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:25:00 AM	8.57	8.16	33.08	25.92	1.61	8.00	<0.1	<0.01
NF3	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:26:00 AM	8.50	8.16	33.13	25.92	1.62	7.00	<0.1	<0.01
NF3	18/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:26:00 AM	8.56	8.14	33.11	25.91	1.58	5.00	<0.1	<0.01
NF3	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	12	9:27:00 AM	8.50	8.13	33.11	25.91	1.57	6.00	<0.1	<0.01
NF3	18/06/2024	Cloudy	Mid-Ebb	Moderate	В	12	9:27:00 AM	8.57	8.16	33.11	25.92	1.60	7.00	<0.1	<0.01
CE	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:11:00 AM	9.18	8.32	33.01	26.07	2.26	2.50	<0.1	<0.01
CE	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:11:00 AM	9.22	8.34	32.92	26.05	2.25	2.50	<0.1	<0.01
CE	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	9:12:00 AM	9.19	8.33	32.97	26.05	2.21	2.50	<0.1	<0.01
CE	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	11	9:12:00 AM	9.27	8.34	32.95	26.09	2.27	2.50	<0.1	<0.01
CE	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	9:13:00 AM	9.24	8.37	32.92	26.12	2.26	2.50	<0.1	<0.01
CE	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	9:13:00 AM	9.18	8.33	32.99	26.08	2.26	2.50	<0.1	<0.01
CF	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:24:00 PM	8.47	8.15	33.20	26.27	2.44	2.50	<0.1	<0.01
CF	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:24:00 PM	8.39	8.15	33.09	26.29	2.43	3.00	<0.1	<0.01
CF	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	10	12:25:00 PM	8.40	8.12	33.10	26.21	2.42	2.50	<0.1	<0.01
CF	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	10	12:25:00 PM	8.42	8.10	33.13	26.26	2.44	3.00	<0.1	<0.01
CF	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	19	12:26:00 PM	8.39	8.14	33.09	26.28	2.43	3.00	<0.1	<0.01
CF	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	19	12:26:00 PM	8.51	8.10	33.18	26.29	2.41	2.50	<0.1	<0.01
WSR01	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:00:00 PM	8.35	8.33	33.02	26.15	1.93	2.50	<0.1	<0.01
WSR01	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:00:00 PM	8.33	8.32	32.96	26.08	1.99	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR01	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:01:00 PM	8.40	8.33	32.99	26.08	1.99	2.50	<0.1	<0.01
WSR01	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:01:00 PM	8.41	8.29	33.00	26.16	1.97	2.50	<0.1	<0.01
WSR01	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:02:00 PM	8.36	8.31	32.92	26.10	1.95	2.50	<0.1	<0.01
WSR01	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:02:00 PM	8.33	8.32	32.97	26.08	1.94	2.50	<0.1	<0.01
WSR02	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:39:00 AM	9.04	8.30	31.70	26.05	1.36	2.50	<0.1	<0.01
WSR02	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:39:00 AM	9.08	8.30	31.81	26.01	1.37	2.50	<0.1	<0.01
WSR02	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:40:00 AM	9.06	8.26	31.71	26.05	1.38	2.50	<0.1	<0.01
WSR02	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:40:00 AM	9.04	8.27	31.73	26.09	1.39	2.50	<0.1	<0.01
WSR02	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:41:00 AM	9.05	8.28	31.79	26.08	1.34	3.00	<0.1	<0.01
WSR02	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:41:00 AM	9.06	8.29	31.78	26.01	1.39	2.50	<0.1	<0.01
WSR03	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:21:00 AM	8.87	8.32	33.38	26.29	1.53	2.50	<0.1	<0.01
WSR03	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:21:00 AM	8.94	8.35	33.41	26.21	1.50	4.00	<0.1	<0.01
WSR03	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:22:00 AM	8.83	8.31	33.44	26.21	1.51	3.00	<0.1	<0.01
WSR03	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:22:00 AM	8.86	8.33	33.46	26.29	1.53	2.50	<0.1	<0.01
WSR03	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:23:00 AM	8.85	8.33	33.35	26.23	1.53	2.50	<0.1	<0.01
WSR03	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:23:00 AM	8.93	8.35	33.37	26.24	1.55	3.00	<0.1	<0.01
WSR04	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:06:00 AM	9.54	8.20	33.27	25.97	1.83	7.00	<0.1	<0.01
WSR04	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:06:00 AM	9.51	8.23	33.21	25.95	1.86	9.00	<0.1	<0.01
WSR04	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:07:00 AM	9.61	8.21	33.25	25.97	1.86	9.00	<0.1	<0.01
WSR04	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:07:00 AM	9.58	8.23	33.21	26.03	1.87	5.00	<0.1	<0.01
WSR04	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:08:00 AM	9.55	8.23	33.21	25.99	1.83	3.00	<0.1	<0.01
WSR04	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:08:00 AM	9.50	8.22	33.25	25.95	1.82	6.00	<0.1	<0.01
WSR16	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:33:00 AM	9.01	8.31	32.27	26.30	1.85	9.00	<0.1	<0.01
WSR16	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:33:00 AM	9.06	8.33	32.21	26.31	1.83	5.00	<0.1	<0.01
WSR16	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	9:34:00 AM	8.94	8.36	32.24	26.35	1.79	5.00	<0.1	<0.01
WSR16	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	9:34:00 AM	9.04	8.31	32.28	26.36	1.85	7.00	<0.1	<0.01
WSR16	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	15	9:35:00 AM	9.03	8.31	32.18	26.33	1.79	3.00	<0.1	<0.01
WSR16	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	15	9:35:00 AM	9.05	8.35	32.27	26.32	1.82	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR33	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:49:00 AM	8.66	8.19	33.06	26.30	1.52	3.00	<0.1	<0.01
WSR33	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:49:00 AM	8.59	8.16	33.10	26.25	1.56	4.00	<0.1	<0.01
WSR33	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:50:00 AM	8.64	8.19	33.03	26.21	1.52	3.00	<0.1	<0.01
WSR33	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:50:00 AM	8.65	8.20	33.08	26.21	1.52	2.50	<0.1	<0.01
WSR33	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:51:00 AM	8.60	8.16	33.11	26.21	1.52	5.00	<0.1	<0.01
WSR33	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:51:00 AM	8.63	8.17	33.02	26.22	1.55	6.00	<0.1	<0.01
WSR36	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:33:00 AM	9.06	8.28	31.99	26.19	1.33	4.00	<0.1	<0.01
WSR36	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:33:00 AM	9.06	8.28	32.05	26.17	1.33	6.00	<0.1	<0.01
WSR36	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:34:00 AM	9.00	8.28	32.00	26.11	1.34	2.50	<0.1	<0.01
WSR36	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:34:00 AM	9.02	8.26	31.94	26.13	1.28	3.00	<0.1	<0.01
WSR36	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:34:00 AM	9.01	8.25	32.00	26.12	1.32	3.00	<0.1	<0.01
WSR36	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:34:00 AM	9.07	8.24	31.98	26.11	1.33	3.00	<0.1	<0.01
WSR37	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:27:00 AM	9.41	8.17	32.91	26.23	1.91	6.00	<0.1	<0.01
WSR37	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:27:00 AM	9.38	8.19	32.88	26.18	1.94	4.00	<0.1	<0.01
WSR37	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:28:00 AM	9.41	8.17	32.88	26.23	1.97	6.00	<0.1	<0.01
WSR37	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:28:00 AM	9.42	8.17	32.85	26.21	1.95	3.00	<0.1	<0.01
WSR37	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:29:00 AM	9.32	8.18	32.90	26.17	1.93	4.00	<0.1	<0.01
WSR37	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:29:00 AM	9.34	8.19	32.86	26.21	1.94	5.00	<0.1	<0.01
NF1	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:55:00 AM	8.46	8.16	32.65	26.13	2.26	6.00	<0.1	<0.01
NF1	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:55:00 AM	8.46	8.15	32.62	26.12	2.25	8.00	<0.1	<0.01
NF1	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	9:56:00 AM	8.52	8.17	32.66	26.16	2.25	3.00	<0.1	<0.01
NF1	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	9:56:00 AM	8.47	8.19	32.62	26.11	2.30	6.00	<0.1	<0.01
NF1	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	9:57:00 AM	8.58	8.15	32.63	26.15	2.24	4.00	<0.1	<0.01
NF1	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	9:57:00 AM	8.46	8.14	32.62	26.11	2.26	2.50	<0.1	<0.01
NF2	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:12:00 AM	9.21	8.35	33.40	26.37	2.03	3.00	<0.1	<0.01
NF2	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:12:00 AM	9.32	8.36	33.45	26.38	2.05	3.00	<0.1	<0.01
NF2	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:13:00 AM	9.27	8.33	33.42	26.39	2.02	3.00	<0.1	<0.01
NF2	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:13:00 AM	9.21	8.31	33.47	26.35	1.99	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
NF2	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	10	10:14:00 AM	9.27	8.31	33.47	26.39	2.03	3.00	<0.1	<0.01
NF2	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	10	10:14:00 AM	9.24	8.36	33.43	26.37	2.05	4.00	<0.1	<0.01
NF3	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:20:00 AM	8.67	8.31	32.31	26.19	2.48	9.00	<0.1	<0.01
NF3	20/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:20:00 AM	8.67	8.33	32.25	26.26	2.50	8.00	<0.1	<0.01
NF3	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	10:21:00 AM	8.64	8.30	32.27	26.26	2.47	7.00	<0.1	<0.01
NF3	20/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	10:21:00 AM	8.62	8.33	32.33	26.18	2.48	5.00	<0.1	<0.01
NF3	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:22:00 AM	8.61	8.30	32.34	26.24	2.45	6.00	<0.1	<0.01
NF3	20/06/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:22:00 AM	8.67	8.31	32.26	26.22	2.47	7.00	<0.1	<0.01
CE	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:25:00 AM	9.24	8.26	33.21	26.39	2.59	2.50	<0.1	<0.01
CE	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:25:00 AM	9.19	8.29	33.28	26.33	2.61	2.50	<0.1	<0.01
CE	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	12	10:26:00 AM	9.22	8.25	33.22	26.32	2.60	2.50	<0.1	<0.01
CE	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	12	10:26:00 AM	9.20	8.26	33.34	26.37	2.64	2.50	<0.1	<0.01
CE	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	22	10:27:00 AM	9.21	8.28	33.30	26.39	2.64	2.50	<0.1	<0.01
CE	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	22	10:27:00 AM	9.19	8.27	33.34	26.34	2.63	2.50	<0.1	<0.01
CF	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:32:00 PM	8.22	8.31	32.43	26.45	2.22	2.50	<0.1	<0.01
CF	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:32:00 PM	8.23	8.32	32.34	26.44	2.23	3.00	<0.1	<0.01
CF	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	10	1:33:00 PM	8.26	8.29	32.39	26.45	2.24	2.50	<0.1	<0.01
CF	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	10	1:33:00 PM	8.27	8.32	32.40	26.42	2.20	3.00	<0.1	<0.01
CF	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	1:34:00 PM	8.25	8.33	32.38	26.44	2.21	3.00	<0.1	<0.01
CF	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	20	1:34:00 PM	8.30	8.31	32.36	26.42	2.22	2.50	<0.1	<0.01
WSR01	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:32:00 PM	8.07	8.35	33.14	26.35	1.59	2.50	<0.1	<0.01
WSR01	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:32:00 PM	8.11	8.34	33.26	26.32	1.59	2.50	<0.1	<0.01
WSR01	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:33:00 PM	8.08	8.34	33.13	26.33	1.57	2.50	<0.1	<0.01
WSR01	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:33:00 PM	8.08	8.37	33.25	26.34	1.55	2.50	<0.1	<0.01
WSR01	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:34:00 PM	8.08	8.38	33.23	26.36	1.60	2.50	<0.1	<0.01
WSR01	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:34:00 PM	8.12	8.36	33.24	26.35	1.56	2.50	<0.1	<0.01
WSR02	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:48:00 PM	9.15	8.31	32.80	26.30	1.79	2.50	<0.1	<0.01
WSR02	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:48:00 PM	9.16	8.30	32.78	26.33	1.77	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR02	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:49:00 PM	9.15	8.32	32.83	26.33	1.77	2.50	<0.1	<0.01
WSR02	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:49:00 PM	9.09	8.32	32.89	26.30	1.75	2.50	<0.1	<0.01
WSR02	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:50:00 PM	9.12	8.29	32.86	26.28	1.80	3.00	<0.1	<0.01
WSR02	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:50:00 PM	9.09	8.30	32.90	26.34	1.79	2.50	<0.1	<0.01
WSR03	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:31:00 PM	8.64	8.29	33.50	26.69	2.06	2.50	<0.1	<0.01
WSR03	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:31:00 PM	8.58	8.30	33.58	26.67	2.04	4.00	<0.1	<0.01
WSR03	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:32:00 PM	8.57	8.31	33.50	26.67	2.05	3.00	<0.1	<0.01
WSR03	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:32:00 PM	8.61	8.27	33.54	26.67	1.93	2.50	<0.1	<0.01
WSR03	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:33:00 PM	8.56	8.31	33.49	26.65	1.92	2.50	<0.1	<0.01
WSR03	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:33:00 PM	8.60	8.27	33.54	26.63	1.85	3.00	<0.1	<0.01
WSR04	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:18:00 PM	8.68	8.32	32.79	26.38	1.96	7.00	<0.1	<0.01
WSR04	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:18:00 PM	8.70	8.31	32.82	26.39	2.01	9.00	<0.1	<0.01
WSR04	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:19:00 PM	8.74	8.34	32.91	26.39	1.98	9.00	<0.1	<0.01
WSR04	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:19:00 PM	8.69	8.32	32.87	26.39	2.01	5.00	<0.1	<0.01
WSR04	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:20:00 PM	8.77	8.30	32.87	26.38	1.99	3.00	<0.1	<0.01
WSR04	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:20:00 PM	8.77	8.31	32.82	26.33	1.99	6.00	<0.1	<0.01
WSR16	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:48:00 AM	9.07	8.36	33.28	26.44	1.62	9.00	<0.1	<0.01
WSR16	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:48:00 AM	9.08	8.35	33.25	26.44	1.58	5.00	<0.1	<0.01
WSR16	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	10:49:00 AM	9.06	8.36	33.34	26.41	1.62	5.00	<0.1	<0.01
WSR16	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	8	10:49:00 AM	9.09	8.36	33.22	26.42	1.58	7.00	<0.1	<0.01
WSR16	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	16	10:50:00 AM	9.08	8.35	33.21	26.44	1.58	3.00	<0.1	<0.01
WSR16	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	16	10:50:00 AM	9.13	8.35	33.26	26.45	1.60	3.00	<0.1	<0.01
WSR33	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:02:00 PM	8.51	8.23	32.93	26.40	1.58	3.00	<0.1	<0.01
WSR33	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:02:00 PM	8.52	8.19	32.92	26.42	1.57	4.00	<0.1	<0.01
WSR33	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:03:00 PM	8.55	8.20	32.92	26.36	1.58	3.00	<0.1	<0.01
WSR33	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:03:00 PM	8.55	8.22	32.99	26.40	1.59	2.50	<0.1	<0.01
WSR33	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:04:00 PM	8.50	8.19	33.04	26.39	1.56	5.00	<0.1	<0.01
WSR33	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:04:00 PM	8.53	8.21	33.02	26.40	1.58	6.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR36	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:46:00 AM	8.37	8.22	33.19	26.30	1.67	4.00	<0.1	<0.01
WSR36	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:46:00 AM	8.35	8.22	33.18	26.29	1.68	6.00	<0.1	<0.01
WSR36	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:47:00 AM	8.30	8.21	33.12	26.27	1.69	2.50	<0.1	<0.01
WSR36	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:47:00 AM	8.31	8.23	33.10	26.26	1.65	3.00	<0.1	<0.01
WSR36	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	11:47:00 AM	8.30	8.19	33.10	26.33	1.66	3.00	<0.1	<0.01
WSR36	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	6	11:47:00 AM	8.31	8.23	33.21	26.29	1.65	3.00	<0.1	<0.01
WSR37	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:40:00 AM	9.01	8.42	33.51	26.48	2.20	6.00	<0.1	<0.01
WSR37	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:40:00 AM	9.06	8.40	33.61	26.49	2.16	4.00	<0.1	<0.01
WSR37	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:41:00 AM	9.01	8.41	33.53	26.48	2.20	6.00	<0.1	<0.01
WSR37	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:41:00 AM	9.06	8.41	33.54	26.51	2.20	3.00	<0.1	<0.01
WSR37	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:42:00 AM	9.00	8.40	33.53	26.48	2.19	4.00	<0.1	<0.01
WSR37	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:42:00 AM	9.00	8.42	33.54	26.50	2.18	5.00	<0.1	<0.01
NF1	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:10:00 AM	8.18	8.21	33.19	26.19	2.06	6.00	<0.1	<0.01
NF1	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:10:00 AM	8.15	8.18	33.19	26.25	2.05	8.00	<0.1	<0.01
NF1	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:11:00 AM	8.10	8.22	33.15	26.19	2.06	3.00	<0.1	<0.01
NF1	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:11:00 AM	8.17	8.19	33.19	26.19	2.08	6.00	<0.1	<0.01
NF1	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:12:00 AM	8.11	8.21	33.16	26.21	2.06	4.00	<0.1	<0.01
NF1	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:12:00 AM	8.18	8.19	33.18	26.24	2.07	2.50	<0.1	<0.01
NF2	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:25:00 AM	8.26	8.18	32.69	26.51	1.95	3.00	<0.1	<0.01
NF2	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:25:00 AM	8.28	8.18	32.69	26.53	1.98	3.00	<0.1	<0.01
NF2	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:26:00 AM	8.20	8.17	32.73	26.52	2.00	3.00	<0.1	<0.01
NF2	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:26:00 AM	8.22	8.16	32.79	26.53	1.95	3.00	<0.1	<0.01
NF2	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	10	11:27:00 AM	8.20	8.17	32.75	26.51	1.95	3.00	<0.1	<0.01
NF2	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	10	11:27:00 AM	8.25	8.18	32.72	26.54	2.00	4.00	<0.1	<0.01
NF3	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:33:00 AM	8.32	8.20	33.25	26.26	1.84	9.00	<0.1	<0.01
NF3	22/06/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:33:00 AM	8.30	8.19	33.23	26.25	1.87	8.00	<0.1	<0.01
NF3	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	11:34:00 AM	8.26	8.19	33.24	26.20	1.87	7.00	<0.1	<0.01
NF3	22/06/2024	Cloudy	Mid-Ebb	Moderate	М	6	11:34:00 AM	8.27	8.22	33.21	26.25	1.84	5.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
NF3	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	11	11:35:00 AM	8.31	8.21	33.25	26.19	1.85	6.00	<0.1	<0.01
NF3	22/06/2024	Cloudy	Mid-Ebb	Moderate	В	11	11:35:00 AM	8.32	8.21	33.18	26.21	1.84	7.00	<0.1	<0.01
CE	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:53:00 AM	9.13	8.31	32.47	26.61	1.92	2.50	<0.1	<0.01
CE	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:53:00 AM	9.18	8.30	32.57	26.55	2.09	2.50	<0.1	<0.01
CE	25/06/2024	Cloudy	Mid-Flood	Moderate	М	10	10:54:00 AM	9.12	8.30	32.53	26.55	2.03	2.50	<0.1	<0.01
CE	25/06/2024	Cloudy	Mid-Flood	Moderate	М	10	10:54:00 AM	9.08	8.27	32.54	26.64	2.14	2.50	<0.1	<0.01
CE	25/06/2024	Cloudy	Mid-Flood	Moderate	В	20	10:55:00 AM	9.13	8.31	32.55	26.58	2.18	2.50	<0.1	<0.01
CE	25/06/2024	Cloudy	Mid-Flood	Moderate	В	20	10:55:00 AM	9.15	8.29	32.48	26.57	2.21	2.50	<0.1	<0.01
CF	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.91	8.31	32.77	26.86	2.56	2.50	<0.1	<0.01
CF	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.81	8.34	32.72	26.86	2.59	3.00	<0.1	<0.01
CF	25/06/2024	Cloudy	Mid-Flood	Moderate	М	11	8:01:00 AM	8.90	8.31	32.77	26.80	2.42	2.50	<0.1	<0.01
CF	25/06/2024	Cloudy	Mid-Flood	Moderate	М	11	8:01:00 AM	8.81	8.35	32.78	26.77	2.35	3.00	<0.1	<0.01
CF	25/06/2024	Cloudy	Mid-Flood	Moderate	В	21	8:02:00 AM	8.83	8.31	32.74	26.88	2.42	3.00	<0.1	<0.01
CF	25/06/2024	Cloudy	Mid-Flood	Moderate	В	21	8:02:00 AM	8.92	8.32	32.72	26.87	2.49	2.50	<0.1	<0.01
WSR01	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:23:00 AM	8.55	8.15	32.59	26.59	2.00	2.50	<0.1	<0.01
WSR01	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:23:00 AM	8.58	8.14	32.53	26.51	2.04	2.50	<0.1	<0.01
WSR01	25/06/2024	Cloudy	Mid-Flood	Moderate	М	5	8:24:00 AM	8.54	8.17	32.55	26.56	2.03	2.50	<0.1	<0.01
WSR01	25/06/2024	Cloudy	Mid-Flood	Moderate	М	5	8:24:00 AM	8.61	8.16	32.60	26.60	2.00	2.50	<0.1	<0.01
WSR01	25/06/2024	Cloudy	Mid-Flood	Moderate	В	8	8:25:00 AM	8.63	8.17	32.54	26.49	2.02	2.50	<0.1	<0.01
WSR01	25/06/2024	Cloudy	Mid-Flood	Moderate	В	8	8:25:00 AM	8.55	8.14	32.65	26.56	2.00	2.50	<0.1	<0.01
WSR02	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:41:00 AM	9.29	8.21	32.62	26.69	1.80	2.50	<0.1	<0.01
WSR02	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:41:00 AM	9.24	8.24	32.57	26.68	1.86	2.50	<0.1	<0.01
WSR02	25/06/2024	Cloudy	Mid-Flood	Moderate	М	5	8:42:00 AM	9.28	8.21	32.57	26.71	1.78	2.50	<0.1	<0.01
WSR02	25/06/2024	Cloudy	Mid-Flood	Moderate	М	5	8:42:00 AM	9.30	8.21	32.56	26.60	1.78	2.50	<0.1	<0.01
WSR02	25/06/2024	Cloudy	Mid-Flood	Moderate	В	9	8:43:00 AM	9.23	8.22	32.65	26.62	1.80	3.00	<0.1	<0.01
WSR02	25/06/2024	Cloudy	Mid-Flood	Moderate	В	9	8:43:00 AM	9.33	8.23	32.67	26.62	1.86	2.50	<0.1	<0.01
WSR03	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:55:00 AM	8.90	8.34	32.46	26.89	1.32	2.50	<0.1	<0.01
WSR03	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	8:55:00 AM	8.86	8.34	32.45	26.77	1.29	4.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR03	25/06/2024	Cloudy	Mid-Flood	Moderate	М	4	8:56:00 AM	8.92	8.33	32.40	26.79	1.33	3.00	<0.1	<0.01
WSR03	25/06/2024	Cloudy	Mid-Flood	Moderate	М	4	8:56:00 AM	8.91	8.32	32.48	26.89	1.29	2.50	<0.1	<0.01
WSR03	25/06/2024	Cloudy	Mid-Flood	Moderate	В	7	8:57:00 AM	8.95	8.33	32.45	26.83	1.28	2.50	<0.1	<0.01
WSR03	25/06/2024	Cloudy	Mid-Flood	Moderate	В	7	8:57:00 AM	8.92	8.31	32.41	26.78	1.33	3.00	<0.1	<0.01
WSR04	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:09:00 AM	9.61	8.16	31.51	26.68	1.44	7.00	<0.1	<0.01
WSR04	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:09:00 AM	9.57	8.15	31.57	26.75	1.48	9.00	<0.1	<0.01
WSR04	25/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:10:00 AM	9.61	8.16	31.47	26.79	1.45	9.00	<0.1	<0.01
WSR04	25/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:10:00 AM	9.63	8.15	31.49	26.70	1.52	5.00	<0.1	<0.01
WSR04	25/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:11:00 AM	9.57	8.14	31.49	26.67	1.49	3.00	<0.1	<0.01
WSR04	25/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:11:00 AM	9.66	8.14	31.48	26.72	1.45	6.00	<0.1	<0.01
WSR16	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:33:00 AM	9.07	8.24	32.78	26.84	1.56	9.00	<0.1	<0.01
WSR16	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:33:00 AM	9.01	8.26	32.76	26.80	1.56	5.00	<0.1	<0.01
WSR16	25/06/2024	Cloudy	Mid-Flood	Moderate	М	8	10:34:00 AM	9.00	8.27	32.78	26.80	1.55	5.00	<0.1	<0.01
WSR16	25/06/2024	Cloudy	Mid-Flood	Moderate	М	8	10:34:00 AM	9.09	8.27	32.69	26.86	1.53	7.00	<0.1	<0.01
WSR16	25/06/2024	Cloudy	Mid-Flood	Moderate	В	14	10:35:00 AM	8.98	8.23	32.80	26.85	1.56	3.00	<0.1	<0.01
WSR16	25/06/2024	Cloudy	Mid-Flood	Moderate	В	14	10:35:00 AM	9.10	8.24	32.70	26.85	1.57	3.00	<0.1	<0.01
WSR33	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:24:00 AM	8.72	8.18	32.53	26.77	1.69	3.00	<0.1	<0.01
WSR33	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:24:00 AM	8.69	8.18	32.56	26.79	1.62	4.00	<0.1	<0.01
WSR33	25/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:25:00 AM	8.68	8.19	32.50	26.78	1.70	3.00	<0.1	<0.01
WSR33	25/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:25:00 AM	8.71	8.18	32.52	26.79	1.64	2.50	<0.1	<0.01
WSR33	25/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:26:00 AM	8.65	8.17	32.49	26.87	1.68	5.00	<0.1	<0.01
WSR33	25/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:26:00 AM	8.68	8.18	32.54	26.83	1.68	6.00	<0.1	<0.01
WSR36	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:39:00 AM	9.39	8.12	32.18	26.47	1.25	4.00	<0.1	<0.01
WSR36	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:39:00 AM	9.35	8.13	32.24	26.52	1.24	6.00	<0.1	<0.01
WSR36	25/06/2024	Cloudy	Mid-Flood	Moderate	М	3	9:40:00 AM	9.36	8.13	32.25	26.48	1.24	2.50	<0.1	<0.01
WSR36	25/06/2024	Cloudy	Mid-Flood	Moderate	М	3	9:40:00 AM	9.36	8.11	32.22	26.49	1.23	3.00	<0.1	<0.01
WSR36	25/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:40:00 AM	9.33	8.15	32.14	26.54	1.25	3.00	<0.1	<0.01
WSR36	25/06/2024	Cloudy	Mid-Flood	Moderate	В	6	9:40:00 AM	9.44	8.11	32.17	26.55	1.28	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR37	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:56:00 AM	9.44	8.25	32.35	26.46	1.76	6.00	<0.1	<0.01
WSR37	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	9:56:00 AM	9.46	8.25	32.30	26.55	1.70	4.00	<0.1	<0.01
WSR37	25/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:57:00 AM	9.37	8.26	32.29	26.51	1.69	6.00	<0.1	<0.01
WSR37	25/06/2024	Cloudy	Mid-Flood	Moderate	М	4	9:57:00 AM	9.34	8.25	32.26	26.49	1.73	3.00	<0.1	<0.01
WSR37	25/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:58:00 AM	9.44	8.27	32.32	26.56	1.76	4.00	<0.1	<0.01
WSR37	25/06/2024	Cloudy	Mid-Flood	Moderate	В	7	9:58:00 AM	9.42	8.28	32.28	26.46	1.70	5.00	<0.1	<0.01
NF1	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:20:00 AM	8.95	8.29	32.44	26.75	1.27	6.00	<0.1	<0.01
NF1	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:20:00 AM	8.98	8.30	32.41	26.73	1.25	8.00	<0.1	<0.01
NF1	25/06/2024	Cloudy	Mid-Flood	Moderate	М	7	10:21:00 AM	8.93	8.26	32.46	26.74	1.38	3.00	<0.1	<0.01
NF1	25/06/2024	Cloudy	Mid-Flood	Moderate	М	7	10:21:00 AM	9.00	8.28	32.40	26.70	1.38	6.00	<0.1	<0.01
NF1	25/06/2024	Cloudy	Mid-Flood	Moderate	В	12	10:22:00 AM	9.00	8.29	32.39	26.70	1.37	4.00	<0.1	<0.01
NF1	25/06/2024	Cloudy	Mid-Flood	Moderate	В	12	10:22:00 AM	9.00	8.27	32.43	26.72	1.35	2.50	<0.1	<0.01
NF2	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:12:00 AM	9.64	8.35	32.76	26.71	1.93	3.00	<0.1	<0.01
NF2	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:12:00 AM	9.59	8.35	32.73	26.75	1.98	3.00	<0.1	<0.01
NF2	25/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:13:00 AM	9.59	8.31	32.74	26.78	1.93	3.00	<0.1	<0.01
NF2	25/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:13:00 AM	9.66	8.31	32.80	26.74	1.97	3.00	<0.1	<0.01
NF2	25/06/2024	Cloudy	Mid-Flood	Moderate	В	10	10:14:00 AM	9.64	8.32	32.77	26.68	1.94	3.00	<0.1	<0.01
NF2	25/06/2024	Cloudy	Mid-Flood	Moderate	В	10	10:14:00 AM	9.61	8.32	32.77	26.66	1.98	4.00	<0.1	<0.01
NF3	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:05:00 AM	9.45	8.14	32.16	26.50	1.40	9.00	<0.1	<0.01
NF3	25/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:05:00 AM	9.48	8.12	32.16	26.53	1.34	8.00	<0.1	<0.01
NF3	25/06/2024	Cloudy	Mid-Flood	Moderate	М	6	10:06:00 AM	9.41	8.15	32.17	26.59	1.28	7.00	<0.1	<0.01
NF3	25/06/2024	Cloudy	Mid-Flood	Moderate	М	6	10:06:00 AM	9.46	8.14	32.16	26.52	1.37	5.00	<0.1	<0.01
NF3	25/06/2024	Cloudy	Mid-Flood	Moderate	В	11	10:07:00 AM	9.45	8.14	32.13	26.58	1.28	6.00	<0.1	<0.01
NF3	25/06/2024	Cloudy	Mid-Flood	Moderate	В	11	10:07:00 AM	9.42	8.15	32.05	26.50	1.25	7.00	<0.1	<0.01
CE	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:57:00 AM	9.22	8.12	32.88	27.14	1.99	2.50	<0.1	<0.01
CE	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:57:00 AM	9.23	8.15	32.88	27.14	2.06	2.50	<0.1	<0.01
CE	27/06/2024	Sunny	Mid-Flood	Moderate	М	12	10:58:00 AM	9.26	8.14	32.94	27.14	2.05	2.50	<0.1	<0.01
CE	27/06/2024	Sunny	Mid-Flood	Moderate	М	12	10:58:00 AM	9.23	8.13	32.89	27.11	2.18	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
CE	27/06/2024	Sunny	Mid-Flood	Moderate	В	24	10:59:00 AM	9.27	8.13	32.88	27.09	2.15	2.50	<0.1	<0.01
CE	27/06/2024	Sunny	Mid-Flood	Moderate	В	24	10:59:00 AM	9.22	8.15	32.91	27.11	2.13	2.50	<0.1	<0.01
CF	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	8:00:00 AM	8.52	8.05	32.61	26.78	2.37	2.50	<0.1	<0.01
CF	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	8:00:00 AM	8.56	8.02	32.63	26.84	2.44	3.00	<0.1	<0.01
CF	27/06/2024	Sunny	Mid-Flood	Moderate	М	10	8:01:00 AM	8.54	8.04	32.63	26.78	2.37	2.50	<0.1	<0.01
CF	27/06/2024	Sunny	Mid-Flood	Moderate	М	10	8:01:00 AM	8.51	8.06	32.65	26.80	2.49	3.00	<0.1	<0.01
CF	27/06/2024	Sunny	Mid-Flood	Moderate	В	19	8:02:00 AM	8.55	8.03	32.65	26.83	2.37	3.00	<0.1	<0.01
CF	27/06/2024	Sunny	Mid-Flood	Moderate	В	19	8:02:00 AM	8.56	8.04	32.66	26.84	2.41	2.50	<0.1	<0.01
WSR01	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	8:21:00 AM	8.96	8.25	32.32	27.01	1.44	2.50	<0.1	<0.01
WSR01	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	8:21:00 AM	8.98	8.24	32.36	26.99	1.45	2.50	<0.1	<0.01
WSR01	27/06/2024	Sunny	Mid-Flood	Moderate	М	5	8:22:00 AM	8.94	8.26	32.36	27.02	1.42	2.50	<0.1	<0.01
WSR01	27/06/2024	Sunny	Mid-Flood	Moderate	М	5	8:22:00 AM	8.95	8.27	32.30	27.00	1.44	2.50	<0.1	<0.01
WSR01	27/06/2024	Sunny	Mid-Flood	Moderate	В	8	8:23:00 AM	8.98	8.28	32.30	26.97	1.38	2.50	<0.1	<0.01
WSR01	27/06/2024	Sunny	Mid-Flood	Moderate	В	8	8:23:00 AM	8.97	8.28	32.31	27.02	1.44	2.50	<0.1	<0.01
WSR02	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	8:39:00 AM	8.82	8.05	33.17	27.11	1.96	2.50	<0.1	<0.01
WSR02	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	8:39:00 AM	8.78	8.06	33.19	27.10	1.98	2.50	<0.1	<0.01
WSR02	27/06/2024	Sunny	Mid-Flood	Moderate	М	5	8:40:00 AM	8.79	8.03	33.12	27.12	1.98	2.50	<0.1	<0.01
WSR02	27/06/2024	Sunny	Mid-Flood	Moderate	М	5	8:40:00 AM	8.79	8.03	33.19	27.14	1.93	2.50	<0.1	<0.01
WSR02	27/06/2024	Sunny	Mid-Flood	Moderate	В	9	8:41:00 AM	8.74	8.03	33.09	27.14	1.98	3.00	<0.1	<0.01
WSR02	27/06/2024	Sunny	Mid-Flood	Moderate	В	9	8:41:00 AM	8.78	8.05	33.16	27.14	1.95	2.50	<0.1	<0.01
WSR03	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	8:53:00 AM	8.38	8.27	32.74	26.86	1.46	2.50	<0.1	<0.01
WSR03	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	8:53:00 AM	8.35	8.28	32.76	26.89	1.46	4.00	<0.1	<0.01
WSR03	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	8:54:00 AM	8.36	8.24	32.72	26.86	1.49	3.00	<0.1	<0.01
WSR03	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	8:54:00 AM	8.42	8.24	32.78	26.85	1.43	2.50	<0.1	<0.01
WSR03	27/06/2024	Sunny	Mid-Flood	Moderate	В	7	8:55:00 AM	8.40	8.28	32.67	26.85	1.44	2.50	<0.1	<0.01
WSR03	27/06/2024	Sunny	Mid-Flood	Moderate	В	7	8:55:00 AM	8.40	8.25	32.69	26.85	1.43	3.00	<0.1	<0.01
WSR04	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	9:09:00 AM	9.26	8.13	32.49	26.95	2.01	7.00	<0.1	<0.01
WSR04	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	9:09:00 AM	9.22	8.13	32.49	26.89	1.96	9.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR04	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	9:10:00 AM	9.19	8.14	32.45	26.95	2.10	9.00	<0.1	<0.01
WSR04	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	9:10:00 AM	9.22	8.15	32.47	26.89	1.94	5.00	<0.1	<0.01
WSR04	27/06/2024	Sunny	Mid-Flood	Moderate	В	7	9:11:00 AM	9.22	8.17	32.40	26.93	1.95	3.00	<0.1	<0.01
WSR04	27/06/2024	Sunny	Mid-Flood	Moderate	В	7	9:11:00 AM	9.18	8.13	32.47	26.95	1.95	6.00	<0.1	<0.01
WSR16	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:36:00 AM	8.93	8.11	33.10	26.97	1.77	9.00	<0.1	<0.01
WSR16	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:36:00 AM	8.91	8.09	33.11	26.98	1.76	5.00	<0.1	<0.01
WSR16	27/06/2024	Sunny	Mid-Flood	Moderate	М	8	10:37:00 AM	8.90	8.09	33.05	27.00	1.72	5.00	<0.1	<0.01
WSR16	27/06/2024	Sunny	Mid-Flood	Moderate	М	8	10:37:00 AM	8.89	8.10	33.02	26.95	1.75	7.00	<0.1	<0.01
WSR16	27/06/2024	Sunny	Mid-Flood	Moderate	В	15	10:38:00 AM	8.88	8.09	33.07	26.99	1.71	3.00	<0.1	<0.01
WSR16	27/06/2024	Sunny	Mid-Flood	Moderate	В	15	10:38:00 AM	8.88	8.12	33.02	26.95	1.70	3.00	<0.1	<0.01
WSR33	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	9:26:00 AM	9.00	8.16	32.00	27.13	1.38	3.00	<0.1	<0.01
WSR33	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	9:26:00 AM	8.92	8.16	32.09	27.11	1.35	4.00	<0.1	<0.01
WSR33	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	9:27:00 AM	8.94	8.18	32.01	27.11	1.38	3.00	<0.1	<0.01
WSR33	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	9:27:00 AM	8.92	8.18	32.09	27.09	1.32	2.50	<0.1	<0.01
WSR33	27/06/2024	Sunny	Mid-Flood	Moderate	В	6	9:28:00 AM	8.93	8.16	32.08	27.13	1.32	5.00	<0.1	<0.01
WSR33	27/06/2024	Sunny	Mid-Flood	Moderate	В	6	9:28:00 AM	9.00	8.17	32.06	27.10	1.37	6.00	<0.1	<0.01
WSR36	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	9:41:00 AM	8.34	8.07	31.87	27.13	1.96	4.00	<0.1	<0.01
WSR36	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	9:41:00 AM	8.34	8.03	31.76	27.11	2.01	6.00	<0.1	<0.01
WSR36	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	9:42:00 AM	8.34	8.03	31.78	27.13	2.00	2.50	<0.1	<0.01
WSR36	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	9:42:00 AM	8.30	8.03	31.82	27.14	1.97	3.00	<0.1	<0.01
WSR36	27/06/2024	Sunny	Mid-Flood	Moderate	В	7	9:42:00 AM	8.35	8.06	31.77	27.15	1.96	3.00	<0.1	<0.01
WSR36	27/06/2024	Sunny	Mid-Flood	Moderate	В	7	9:42:00 AM	8.33	8.04	31.79	27.11	1.98	3.00	<0.1	<0.01
WSR37	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	9:57:00 AM	8.57	8.26	32.99	26.90	1.46	6.00	<0.1	<0.01
WSR37	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	9:57:00 AM	8.49	8.28	32.96	26.90	1.45	4.00	<0.1	<0.01
WSR37	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	9:58:00 AM	8.50	8.30	32.88	26.92	1.46	6.00	<0.1	<0.01
WSR37	27/06/2024	Sunny	Mid-Flood	Moderate	М	4	9:58:00 AM	8.52	8.29	32.94	26.92	1.46	3.00	<0.1	<0.01
WSR37	27/06/2024	Sunny	Mid-Flood	Moderate	В	8	9:59:00 AM	8.53	8.26	32.97	26.94	1.45	4.00	<0.1	<0.01
WSR37	27/06/2024	Sunny	Mid-Flood	Moderate	В	8	9:59:00 AM	8.51	8.28	32.99	26.91	1.46	5.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
NF1	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:21:00 AM	8.71	8.26	33.51	27.13	1.61	6.00	<0.1	<0.01
NF1	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:21:00 AM	8.74	8.27	33.53	27.15	1.59	8.00	<0.1	<0.01
NF1	27/06/2024	Sunny	Mid-Flood	Moderate	М	7	10:22:00 AM	8.72	8.27	33.58	27.13	1.54	3.00	<0.1	<0.01
NF1	27/06/2024	Sunny	Mid-Flood	Moderate	М	7	10:22:00 AM	8.72	8.27	33.53	27.13	1.60	6.00	<0.1	<0.01
NF1	27/06/2024	Sunny	Mid-Flood	Moderate	В	13	10:23:00 AM	8.73	8.29	33.58	27.10	1.54	4.00	<0.1	<0.01
NF1	27/06/2024	Sunny	Mid-Flood	Moderate	В	13	10:23:00 AM	8.68	8.26	33.56	27.09	1.60	2.50	<0.1	<0.01
NF2	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:13:00 AM	8.90	8.16	32.45	26.96	1.75	3.00	<0.1	<0.01
NF2	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:13:00 AM	8.95	8.18	32.47	27.02	1.76	3.00	<0.1	<0.01
NF2	27/06/2024	Sunny	Mid-Flood	Moderate	М	5	10:14:00 AM	8.92	8.18	32.39	26.97	1.70	3.00	<0.1	<0.01
NF2	27/06/2024	Sunny	Mid-Flood	Moderate	М	5	10:14:00 AM	8.90	8.16	32.40	27.02	1.76	3.00	<0.1	<0.01
NF2	27/06/2024	Sunny	Mid-Flood	Moderate	В	10	10:15:00 AM	8.91	8.15	32.44	26.96	1.74	3.00	<0.1	<0.01
NF2	27/06/2024	Sunny	Mid-Flood	Moderate	В	10	10:15:00 AM	8.92	8.16	32.43	26.96	1.71	4.00	<0.1	<0.01
NF3	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:06:00 AM	9.15	8.20	31.87	26.77	1.33	9.00	<0.1	<0.01
NF3	27/06/2024	Sunny	Mid-Flood	Moderate	S	1	10:06:00 AM	9.19	8.24	31.96	26.77	1.36	8.00	<0.1	<0.01
NF3	27/06/2024	Sunny	Mid-Flood	Moderate	М	6	10:07:00 AM	9.23	8.22	31.96	26.74	1.34	7.00	<0.1	<0.01
NF3	27/06/2024	Sunny	Mid-Flood	Moderate	М	6	10:07:00 AM	9.19	8.21	31.92	26.79	1.31	5.00	<0.1	<0.01
NF3	27/06/2024	Sunny	Mid-Flood	Moderate	В	11	10:08:00 AM	9.20	8.21	31.96	26.74	1.34	6.00	<0.1	<0.01
NF3	27/06/2024	Sunny	Mid-Flood	Moderate	В	11	10:08:00 AM	9.15	8.22	31.86	26.74	1.30	7.00	<0.1	<0.01
CE	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	1:11:00 PM	8.82	8.08	31.87	26.81	2.01	2.50	<0.1	<0.01
CE	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	1:11:00 PM	8.70	8.07	31.83	26.82	2.02	2.50	<0.1	<0.01
CE	29/06/2024	Cloudy	Mid-Flood	Moderate	М	12	1:12:00 PM	8.80	8.10	31.86	26.80	2.02	2.50	<0.1	<0.01
CE	29/06/2024	Cloudy	Mid-Flood	Moderate	М	12	1:12:00 PM	8.79	8.08	31.94	26.76	2.01	2.50	<0.1	<0.01
CE	29/06/2024	Cloudy	Mid-Flood	Moderate	В	24	1:13:00 PM	8.72	8.10	31.83	26.78	2.02	2.50	<0.1	<0.01
CE	29/06/2024	Cloudy	Mid-Flood	Moderate	В	24	1:13:00 PM	8.76	8.09	31.90	26.75	2.02	2.50	<0.1	<0.01
CF	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:13:00 AM	9.07	8.23	33.68	26.83	2.48	2.50	<0.1	<0.01
CF	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:13:00 AM	8.98	8.23	33.61	26.78	2.53	3.00	<0.1	<0.01
CF	29/06/2024	Cloudy	Mid-Flood	Moderate	М	10	10:14:00 AM	9.04	8.21	33.65	26.83	2.47	2.50	<0.1	<0.01
CF	29/06/2024	Cloudy	Mid-Flood	Moderate	М	10	10:14:00 AM	9.06	8.24	33.67	26.83	2.49	3.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	D0 (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
CF	29/06/2024	Cloudy	Mid-Flood	Moderate	В	20	10:15:00 AM	9.04	8.21	33.56	26.78	2.45	3.00	<0.1	<0.01
CF	29/06/2024	Cloudy	Mid-Flood	Moderate	В	20	10:15:00 AM	9.03	8.24	33.58	26.83	2.42	2.50	<0.1	<0.01
WSR01	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:35:00 AM	8.25	8.20	32.83	26.78	1.78	2.50	<0.1	<0.01
WSR01	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:35:00 AM	8.32	8.20	32.89	26.76	1.84	2.50	<0.1	<0.01
WSR01	29/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:36:00 AM	8.31	8.22	32.84	26.78	1.80	2.50	<0.1	<0.01
WSR01	29/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:36:00 AM	8.31	8.22	32.85	26.70	1.78	2.50	<0.1	<0.01
WSR01	29/06/2024	Cloudy	Mid-Flood	Moderate	В	9	10:37:00 AM	8.24	8.24	32.91	26.77	1.79	2.50	<0.1	<0.01
WSR01	29/06/2024	Cloudy	Mid-Flood	Moderate	В	9	10:37:00 AM	8.27	8.20	32.82	26.73	1.81	2.50	<0.1	<0.01
WSR02	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:54:00 AM	8.16	8.22	32.95	26.69	1.96	2.50	<0.1	<0.01
WSR02	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	10:54:00 AM	8.12	8.20	32.89	26.65	2.00	2.50	<0.1	<0.01
WSR02	29/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:55:00 AM	8.14	8.23	32.96	26.70	2.03	2.50	<0.1	<0.01
WSR02	29/06/2024	Cloudy	Mid-Flood	Moderate	М	5	10:55:00 AM	8.20	8.24	32.98	26.66	2.01	2.50	<0.1	<0.01
WSR02	29/06/2024	Cloudy	Mid-Flood	Moderate	В	8	10:56:00 AM	8.17	8.24	32.92	26.62	1.97	3.00	<0.1	<0.01
WSR02	29/06/2024	Cloudy	Mid-Flood	Moderate	В	8	10:56:00 AM	8.23	8.21	33.00	26.64	2.02	2.50	<0.1	<0.01
WSR03	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:10:00 AM	8.09	8.15	32.02	26.80	1.72	2.50	<0.1	<0.01
WSR03	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:10:00 AM	8.19	8.14	32.01	26.87	1.71	4.00	<0.1	<0.01
WSR03	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	11:11:00 AM	8.12	8.17	31.96	26.82	1.73	3.00	<0.1	<0.01
WSR03	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	11:11:00 AM	8.17	8.15	31.97	26.79	1.75	2.50	<0.1	<0.01
WSR03	29/06/2024	Cloudy	Mid-Flood	Moderate	В	7	11:12:00 AM	8.14	8.13	32.09	26.81	1.75	2.50	<0.1	<0.01
WSR03	29/06/2024	Cloudy	Mid-Flood	Moderate	В	7	11:12:00 AM	8.12	8.16	32.05	26.87	1.72	3.00	<0.1	<0.01
WSR04	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:24:00 AM	8.91	8.28	32.62	26.78	1.78	7.00	<0.1	<0.01
WSR04	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:24:00 AM	8.95	8.28	32.52	26.79	1.76	9.00	<0.1	<0.01
WSR04	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	11:25:00 AM	8.95	8.28	32.49	26.75	1.81	9.00	<0.1	<0.01
WSR04	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	11:25:00 AM	8.99	8.31	32.55	26.76	1.78	5.00	<0.1	<0.01
WSR04	29/06/2024	Cloudy	Mid-Flood	Moderate	В	7	11:26:00 AM	8.90	8.31	32.54	26.76	1.79	3.00	<0.1	<0.01
WSR04	29/06/2024	Cloudy	Mid-Flood	Moderate	В	7	11:26:00 AM	8.99	8.31	32.49	26.75	1.77	6.00	<0.1	<0.01
WSR16	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:51:00 PM	8.08	8.10	32.99	26.72	2.11	9.00	<0.1	<0.01
WSR16	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:51:00 PM	8.03	8.13	32.92	26.73	2.03	5.00	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
WSR16	29/06/2024	Cloudy	Mid-Flood	Moderate	М	8	12:52:00 PM	8.08	8.11	32.92	26.76	1.97	5.00	<0.1	<0.01
WSR16	29/06/2024	Cloudy	Mid-Flood	Moderate	М	8	12:52:00 PM	8.00	8.11	32.90	26.72	1.93	7.00	<0.1	<0.01
WSR16	29/06/2024	Cloudy	Mid-Flood	Moderate	В	14	12:53:00 PM	8.00	8.12	32.99	26.73	1.88	3.00	<0.1	<0.01
WSR16	29/06/2024	Cloudy	Mid-Flood	Moderate	В	14	12:53:00 PM	7.99	8.10	32.98	26.72	1.89	3.00	<0.1	<0.01
WSR33	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:40:00 AM	8.85	8.14	32.48	26.80	1.67	3.00	<0.1	<0.01
WSR33	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:40:00 AM	8.94	8.17	32.36	26.78	1.71	4.00	<0.1	<0.01
WSR33	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	11:41:00 AM	8.93	8.14	32.45	26.85	1.71	3.00	<0.1	<0.01
WSR33	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	11:41:00 AM	8.95	8.15	32.48	26.80	1.74	2.50	<0.1	<0.01
WSR33	29/06/2024	Cloudy	Mid-Flood	Moderate	В	7	11:42:00 AM	8.88	8.16	32.45	26.80	1.74	5.00	<0.1	<0.01
WSR33	29/06/2024	Cloudy	Mid-Flood	Moderate	В	7	11:42:00 AM	8.83	8.14	32.36	26.85	1.69	6.00	<0.1	<0.01
WSR36	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:57:00 AM	8.48	8.34	32.10	26.93	1.42	4.00	<0.1	<0.01
WSR36	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	11:57:00 AM	8.52	8.34	32.05	26.92	1.37	6.00	<0.1	<0.01
WSR36	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	11:58:00 AM	8.52	8.32	32.00	26.94	1.36	2.50	<0.1	<0.01
WSR36	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	11:58:00 AM	8.53	8.33	32.04	26.93	1.39	3.00	<0.1	<0.01
WSR36	29/06/2024	Cloudy	Mid-Flood	Moderate	В	6	11:58:00 AM	8.47	8.34	32.04	26.91	1.37	3.00	<0.1	<0.01
WSR36	29/06/2024	Cloudy	Mid-Flood	Moderate	В	6	11:58:00 AM	8.48	8.33	32.02	26.97	1.38	3.00	<0.1	<0.01
WSR37	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:14:00 PM	8.54	8.31	32.66	26.67	2.06	6.00	<0.1	<0.01
WSR37	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:14:00 PM	8.52	8.31	32.60	26.68	2.10	4.00	<0.1	<0.01
WSR37	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	12:15:00 PM	8.56	8.27	32.64	26.67	2.05	6.00	<0.1	<0.01
WSR37	29/06/2024	Cloudy	Mid-Flood	Moderate	М	4	12:15:00 PM	8.59	8.27	32.66	26.72	2.01	3.00	<0.1	<0.01
WSR37	29/06/2024	Cloudy	Mid-Flood	Moderate	В	7	12:16:00 PM	8.56	8.29	32.59	26.67	1.96	4.00	<0.1	<0.01
WSR37	29/06/2024	Cloudy	Mid-Flood	Moderate	В	7	12:16:00 PM	8.48	8.27	32.53	26.64	2.10	5.00	<0.1	<0.01
NF1	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:38:00 PM	9.10	8.35	32.75	26.65	1.37	6.00	<0.1	<0.01
NF1	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:38:00 PM	9.05	8.36	32.77	26.62	1.41	8.00	<0.1	<0.01
NF1	29/06/2024	Cloudy	Mid-Flood	Moderate	М	7	12:39:00 PM	9.04	8.37	32.75	26.65	1.41	3.00	<0.1	<0.01
NF1	29/06/2024	Cloudy	Mid-Flood	Moderate	М	7	12:39:00 PM	9.07	8.36	32.64	26.70	1.43	6.00	<0.1	<0.01
NF1	29/06/2024	Cloudy	Mid-Flood	Moderate	В	13	12:40:00 PM	9.12	8.37	32.77	26.70	1.41	4.00	<0.1	<0.01
NF1	29/06/2024	Cloudy	Mid-Flood	Moderate	В	13	12:40:00 PM	9.04	8.37	32.72	26.65	1.39	2.50	<0.1	<0.01

Location	Date	Weather	Tide	Sea Condition	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp ((°C)	Turbidty (NTU)	SS (mg/L)	Iron (mg/L)	Total Residual Chlorine (mg/L)
NF2	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:30:00 PM	8.66	8.21	32.30	26.69	1.94	3.00	<0.1	<0.01
NF2	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:30:00 PM	8.67	8.24	32.36	26.69	1.95	3.00	<0.1	<0.01
NF2	29/06/2024	Cloudy	Mid-Flood	Moderate	М	5	12:31:00 PM	8.58	8.23	32.30	26.67	1.90	3.00	<0.1	<0.01
NF2	29/06/2024	Cloudy	Mid-Flood	Moderate	М	5	12:31:00 PM	8.66	8.22	32.32	26.69	1.92	3.00	<0.1	<0.01
NF2	29/06/2024	Cloudy	Mid-Flood	Moderate	В	10	12:32:00 PM	8.65	8.24	32.29	26.73	1.95	3.00	<0.1	<0.01
NF2	29/06/2024	Cloudy	Mid-Flood	Moderate	В	10	12:32:00 PM	8.55	8.23	32.30	26.73	1.97	4.00	<0.1	<0.01
NF3	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:23:00 PM	8.91	8.28	32.00	26.90	1.85	9.00	<0.1	<0.01
NF3	29/06/2024	Cloudy	Mid-Flood	Moderate	S	1	12:23:00 PM	8.91	8.28	32.12	26.93	1.85	8.00	<0.1	<0.01
NF3	29/06/2024	Cloudy	Mid-Flood	Moderate	М	6	12:24:00 PM	8.89	8.29	32.04	26.91	1.88	7.00	<0.1	<0.01
NF3	29/06/2024	Cloudy	Mid-Flood	Moderate	М	6	12:24:00 PM	8.92	8.27	32.01	26.94	1.90	5.00	<0.1	<0.01
NF3	29/06/2024	Cloudy	Mid-Flood	Moderate	В	11	12:25:00 PM	8.89	8.29	32.00	26.88	1.91	6.00	<0.1	<0.01
NF3	29/06/2024	Cloudy	Mid-Flood	Moderate	В	11	12:25:00 PM	8.92	8.28	32.09	26.88	1.85	7.00	<0.1	<0.01

Landfill Gas Monitoring - Field Measurement Recording Sheet

Contract Title :

Road L-

0+210

Road L-

0+210

Road L-

0+210

U-Channel

U-Channel

7 16/2024

8 16 12024

13:30

15:30

08:30 (before work)

13:30

Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Serial No. Monitoring Equipment Last Calibration Contract No. : 13/WSD/17 254938 GMI-PS500 22/8/2023 Weather Condition Landfill Gas Parameters Monitoring Working trench/ Physical Parameters Date Time Measured by Trench/ Pit Depth Sunny/ Fine/ Overcast/ Location Pit (dd/mm/yyyy) Carbon Dioxide (hh:mm) Methane (%LEL) Balance Gas (%) Temp (°C) / Pressure Oxygen (%) Drizzle/ Rain/ Storm/ Hazy (m) (%) (e.g. H2S) Name Signature mBar 08:30 (before work) Rain 0 20.9 0-03 26-31 1007 0 <1 Road L-**U-Channel** San Hei Tung 1 16/2024 13:30 0+210 Rain 0 O 20,9 0.03 28-71 1008 <1 San Hei Tung 15:30 Rain 20.9 0 0,03 78.91 1007 0 <1 San Hei Tung 08:30 (before work) Rain 0 20.9 0 03 25.31 1008 0 <1 Road L-San Hei Tung U-Channel 3 16/2024 0+210 13:30 Roin 0 20,9 0.03 0 27.41 <1 1008 San Hei Tuno 15:30 0 Rain 20,9 0-03 0 27.71 1008 <1 San Hei Tung 08:30 (before work) Rivin 0 20.9 0.03 23-21 0 <1 010 San Hei Tuno Road L-**U-Channel** 4 16/2024 13:30 Rain 0+210 0 20.9 0 0.03 24-41 1010 <1 San Hei Tung 15:30 Rain 0 20.8 0.03 0 23.101 23.91 <1 1010 San Hei Tung 08:30 (before work) Rain 0 0.03 20.9 0 24-61 1010 <1 San Hei Tung Road L-**U-Channel** 5 16/2024 13:30 Rain 0+210 0 20,9 0.03 0 24-31 1010 <1 San Hei Tun 15:30 Rain 0.03 0 20,9 0 24.21 1010 <1 San Hei Tun 08:30 (before work) fine 0 20.9 0,03 0 2531 <1 San Hei Tun 1010 Road L-**U-Channel** 6 16 12024 Fine 13:30 0.03 0 20.9 0+210 27.21 <1 0 1009 San Hei Tung Fine 15:30 20,9 0.03 0 27.61 <1 O 1009 San Hei Tuno 08:30 (before work) 0.03

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15:30 Fine 20,9 O 08:30 (before work) 0 20.9 Sunny **U-Channel** 11 16 /2024 13:30 20,9 0 Sunny 0 15:30 Sunny 20,9 Forma His Checked by : lan Date :

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Landfill Gas Monitoring - Field Measurement Recording Sheet

Contract Title : Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Serial No. Monitoring Equipment Last Calibration Contract No. : 13/WSD/17 254938 GMI-PS500 22/8/2023 Weather Condition Landfill Gas Parameters Monitoring Working trench/ Physical Parameters Date Time Measured by Trench/ Pit Depth Location Sunny/ Fine/ Overcast/ Pit (dd/mm/yyyy) Carbon Dioxide (hh:mm) Methane (%LEL) Balance Gas (%) Temp (°C) / Pressure Oxygen (%) Drizzle/ Rain/ Storm/ Hazy (m) Name (%) (e.g. H2S) Signature mBar 08:30 (before work) Sunny 20,9 0 0.03 29-31 1007 D <1 22101 Road L-**U-Channel** San Hei Tung 12 16 /2024 20,9 0+210 13:30 Sunny 0 231-21 0.02 1007 0 <1 San Hei Tung 15:30 20,9 Sunny 0 0.02 31-31 <1 0 1007 San Hei Tung 2767 08:30 (before work) 20,9 Rin 0 0.03 29.81 0 1004 <1 San Hei Tung Road L-**U-Channel** Slopphy 13 16/2024 13:30 Ray 0 0+210 20.9 0,03 30-21 <1 0 1004 San Hei Tun 15:30 Sandy Rain Ø 20,9 0.03 30,11 1005 <1 A 0 San Hei Tung 08:30 (before work) Rain 28.51 0 20,9 0.03 1004 <1 D R San Hei Tung **U-Channel** Road L-14/6/2024 13:30 Rain 20,9 D 0+210 0.03 29-91 <1 San Hei Tung 0 R 1004 15:30 Rain 20,9 0 0,03 <1 0 20-11 -2 17 San Hei Tung 1004 08:30 (before work) 20,9 Rain 0 0 0.03 28-51 201 <1 San Hei Tung 1004 Road L-**U-Channel** 15 16 12024 20,9 Rain 13:30 0 0+210 D 0.03 29-91 <1 San Hei Tuno 1004 Roin 15:30 20,9 0-03 0 0 29-71 <1 San Hei Tung 2 1 A 1005 08:30 (before work) 20,9 0 Summy 0.03 0 30-51 <1 1011 San Hei Tung Road L-**U-Channel** 261612024 13:30 0 20,9 0,03 D 32.7/1011 <1 0+210 unny San Hei Tung 15:30 0 0 20,9 <1 0,63 33.2/ 1011 Sunny San Hei Tung 08:30 (before work) 0 20,9 Sunny 0 0,03 20.51 1011 <1 San Hei Tung Road L-**U-Channel** 27 16 12024 0 13:30 0+210 20,9 0 Sunny 0.02 33.51 <1 1011 San Hei Tung A1 15:30 Sunny 20,9 0 0 0.03 33.31 <1 San Hei Tung ZRI 1010 08:30 (before work) 20.9 0.03 Sunny 0 0 29-91 <1 San Hei Tung 009 Road L-**U-Channel** 2816/2024 209 13:30 0.03 0+210 0 0 33.41 Sunny <1 1009 San Hei Tung 20,9 0 15:30 Sunny 0 32-91 0.03 1009 <1 SAI San Hei Tung 08:30 (before work) 1 <1 San Hei Tung Road L-**U-Channel** / /2024 13:30 San Hei Tung 1 <1 0+210 15:30 1 <1 San Hei Tung

Checked by : AIRW Ion Hin tony Date : 28 2074





Appendix H

Waste Flow Table

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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

Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Hard Rock and Plastics **Total Quantity** Reused in the Reused in other Disposed as Paper/ cardboard Others, e.g. Large Broken Chemical Waste Month Imported Fill Metals Generated Contract Projects Public Fill packaging general refuse Concrete (see Note 3) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000 kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg) 0.000 4978.345 0.000 4667.745 0.000 0.000 77.800 Jan 0.000 310.600 0.000 0.000 22561.796 0.000 0.000 21883.006 678.790 0.000 0.000 0.000 0.000 0.000 Feb 53.480 81.140 0.000 0.000 0.000 81.140 0.000 0.000 0.000 0.000 0.000 52.260 Mar 57.130 0.000 0.000 0.000 57.130 0.000 0.000 0.000 0.000 0.000 47.390 Apr 91.370 0.000 0.000 0.000 0.000 0.000 May 0.000 0.000 91.370 0.000 77.260 61.720 0.000 0.000 0.000 49.190 0.000 0.000 0.000 0.002 0.000 60.780 Jun 27831.501 0.000 0.000 26550.751 1268.220 0.000 0.000 0.000 0.002 0.000 368.970 Sub-total Jul Aug Sep Oct Nov Dec 27831.501 0.000 Total 0.000 0.000 26550.751 1268.220 0.000 0.000 0.002 0.000 368.970

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 I

Ecology (Coral) Survey Report

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Pre- Operation Phase Coral Monitoring Report

1 INTRODUCTION

1.1 Background

- 1.1.1 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 Project.
- 1.1.2 The Jardine Engineering Corporation, Limited, China State Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading As AJC Joint Venture (AJCJV) is contracted to carry out the Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP) under Contract No. 13/WSD/17 (the Project).
- 1.1.3 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 Project; 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.
- 1.1.4 The proposed Desalination Plant at Tseung Kwan O (DPTKO) will produce potable water with an initial capacity of 135 million litres per day (MLD), expandable to an ultimate capacity of 270 MLD in the future to provide a secure and alternative fresh water resource complying with the World Health Organization (WHO) standards. The plant will adopt the Seawater Reverse Osmosis (SWRO) technology, which dominates the market due to its reliability and progressive reduction in cost as the technology advances.
- 1.1.5 A baseline coral survey was conducted in October 2023 to verify the validity of the pervious EIA findings as well as to provide updated coral data for impact monitoring during the construction and operational phases. Two indirect impact sites and one control site were identified during the baseline coral survey for impact monitoring.

2 Methodology

- 2.1 All tagged coral colonies in C2, C3 and C8 will be monitored monthly till the end of the first year of the plant operation. The monitoring team will record the following parameters (using the same methodology adopted during the pre-construction phase survey): size, presence, survival, health conditions (percentage of mortality) and percentage of sediment of each tagged coral colonies. The general environmental conditions during the survey date will also be monitored.
- 2.2 Photographic records of the tagged coral colonies will be taken as far as possible maintaining the same aspect and orientation as photographs taken for the pre-translocation surveys. All the tags for marking coral colonies will be removed / retrieved once the monitoring programme is completed.
- 2.3 The results of the pre-operation phase monitoring surveys should be reviewed with reference to findings of the baseline survey.
- 2.4 If, during the pre-operation phase monitoring, observations of any die-off / abnormal conditions of the tagged corals are made, the ET will inform the Contractor, Independent Environmental Checker (IEC)/ Environmental Project Office (ENPO), Agriculture, Fisheries and Conservation Department (AFCD) and in liaison with AFCD investigate any measures needed.

2.5 Monitoring result will be reviewed and be compared against the Action Level and Limit Level (AL/LL) as set out in Table 2-1. Actions specified on Table 2-2 will be taken by ET, IEC, SOR and Contractor shall there be exceedance of AL/LL

Table 2-1 Action and Limit Levels for Construction Phase Coral Monitoring

Parameter	Action Level Definition	Limit Level Definition
Mortality	If during Impact Monitoring a 15% increase in	If during Impact Monitoring a 25% increase in
	the percentage of partial mortality on the	the percentage of partial mortality on the
	corals occurs at more than 20% of the tagged	corals occurs at more than 20% of the tagged
	indirect impact site coral colonies that is not	indirect impact site coral colonies that is not
	recorded on the tagged corals at the control	recorded on the tagged corals at the control
	site, then the Action Level is exceeded	site, then the Limit Level is exceeded
Natas If the	defined Action Lovel or Limit Lovel for acrel monitor	in a in amound and the particula an ant and

Note: If the defined Action Level or Limit Level for coral monitoring is exceeded, the actions as set out in Table 5-4 will be implemented.

Event				Α	ction				
Event		ET Leader		IEC		SOR		Contrac	ctor
Action Level	1.	Check monitoring	1.	Discuss monitorir	ıg 1.	Discuss with the	1.	Inform	the SOR
Exceedance		data		with the ET and the	ne	IEC additional		and	confirm
	2.	Inform the IEC,		Contractor;		monitoring		notificati	on of the
		SOR and	2.	Review proposa	ls	requirements		non-com	pliance in
		Contractor of the		for addition	al	and any other		writing;	
		findings;		monitoring and ar	ıy	measures	2.	Discuss	with the
	3.	Increase the		other measure	es	proposed by the		ET and the	ne IEC and
		monitoring to at		submitted by th	ne	ET;		propose	measures
		least once a		Contractor ar	d 2.	Make		to the IE	C and the
		month to confirm		advise the SO	R	agreement on		SOR;	
		findings;		accordingly.		the measures to	3.	Impleme	nt the
	4.	Propose				be		agreed m	easures.
		mitigation				implemented.			
		measures for							
		consideration							

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

3. Result

3.1 The June 2024 pre-operation phase monitoring were performed on 17th June 2024 for both Indirect Impact Sites and Control Site (Figure 1 and 2); and the weather conditions were summarized in Table 3.1.

Table 3.1	Weather Condition	for the June 2024	Construction Phas	e Monitoring
-----------	-------------------	-------------------	--------------------------	--------------

Date	Condition	Average Underwater Visibility
17 th June 2024	- Southeast force 5 to 6,	Less than 0.5
17 ^{ar} June 2024	- Cloudy	Less than 0.5

- 3.2 Ten (10) hard coral colonies in C2, C3 and C8 were monitored at each site of Control and Indirect Impact sites as suggested in the Operation Phase Monitoring Plan. The general health conditions (size, mortality, bleaching and sediment) were recorded and summarized in Table 3.2, Table 3.3 and Table 3.4 Photos of each tagged coral colonies were taken during the monitoring activities and shown in Appendix A (Photo Plate A, B and C)..
- 3.3 All tagged coral colonies showed good health condition during the June 2024 Monitoring survey. There was not increased level of mortality, bleaching and sediment in other tagged coral colonies when compared with the baseline results.

Tag #	Species	Size (cm) – Max. Diameter	Condition	Mortality (%)		Bleach	ing (%)	Sediment (%)		
				Baseline	17-Jun	Baseline	17-Jun	Baseline	17-Jun	
1	Favites pentagona	66	Good	0	0	0	0	0	0	
2	Porites lutea	58	Good	0	0	0	0	0	0	
3	Plesiastrea versipora	31	Good	0	0	0	0	0	0	
4	Platygyra carnosus	30	Good	0	0	0	0	0	0	
5	Acropora solitaryensis	32	Good	0	0	0	0	0	0	
6	Plesiastrea versipora	27	Good	0	0	0	0	0	0	
7	Porites lutea	39	Good	0	0	0	0	0	0	
8	Favites pentagona	20	Good	0	0	0	0	0	0	
9	Platygyra carnosus	26	Good	0	0	0	0	0	0	
10	Acropora solitaryensis	28	Good	0	0	0	0	0	0	

 Table 3.2 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral

 Colonies at Control Site C8 during June 2024 Coral Monitoring Survey

Tag #	Species	Size (cm) – Max. Diameter	Condition	Mortality (%)		Bleachi	ng (%)	Sediment (%)		
				Baseline	17-Jun	Baseline	17-Jun	Baseline	17-Jun	
1	Porites lutea	21	Good	0	0	0	0	0	0	
2	Favites abdita	43	Good	0	0	0	0	0	0	
3	Duncanopsammia peltata	45	Good	0	0	0	0	0	0	
4	Dipsastraea veroni	20	Good	0	0	0	0	0	0	
5	Favites pentagona	19	Good	0	0	0	0	0	0	
6	Plesiastrea versipora	21	Good	0	0	0	0	0	0	
7	Dipsastraea rotumana	21	Good	0	0	0	0	0	0	
8	Dipsastraea speciosa	20	Good	0	0	0	0	0	0	
9	Porites lutea	37	Good	0	0	0	0	0	0	
10	Porites lutea	38	Good	0	0	0	0	0	0	

Table 3.3 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural CoralColonies at Indirect Impact Site C2 during June 2024 Coral Monitoring Survey

 Table 3.4 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral

 Colonies at Indirect Impact Site C3 during June 2024 Coral Monitoring Survey

Tag #	Species	Size (cm) – Max. Diameter	Condition	Mortali	ity (%)	Bleachi	ng (%)	Sediment (%)		
				Baseline	17-Jun	Baseline	17-Jun	Baseline	17-Jun	
11	Acropora solitaryensis	37	Good	0	0	0	0	0	0	
12	Platygyra carnosa	30	Good	0	0	0	0	0	0	
13	Favites pentagona	33	Good	0	0	0	0	0	0	
14	Platygyra carnosa	22	Good	0	0	0	0	0	0	
15	Dipsastraea veroni	20	Fair	0	0	0	0	0	0	
16#	Favites flexuosa	20	Good	0	0	0	0	0	0	
17	Favites chinensis	51	Good	0	0	0	0	0	0	
18	Plesiastrea versipora	22	Good	0	0	0	0	0	0	

19	Duncanopsammia peltata	29	Good	0	0	0	0	0	0
20	Platygyra carnosus	23	Good	0	0	0	0	0	0

#newly tagged coral colony

4. Discussion and Conclusion

- 4.1 The June 2024 coral monitoring survey were carried out in the indirect impact area (C2 and C3) and control site (C8) on 17th June 2024. A total of 30 tagged coral colonies (10 at control site and 20 and two indirect impact sites) were monitored. All coral colonies were good in general.
- 4.2 No sediment, bleaching or increased mortality in the general condition of all other tagged coral colonies were observed during the monthly operation phase monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period. Photos of each tagged corals colonies were taken and shown in Appendix A (Photo Plates A, B and C).

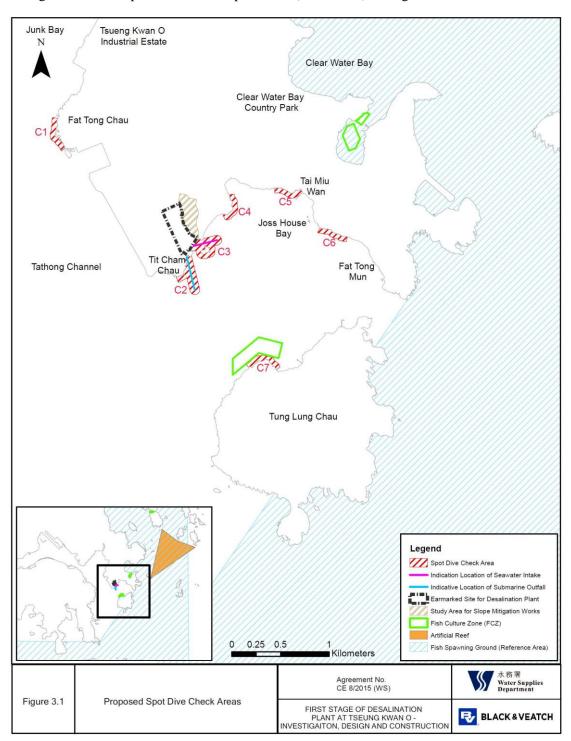
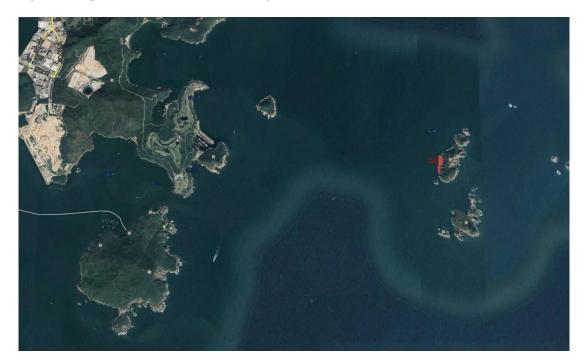


Figure 1 Two Proposed Indirect Impact Sites (C2 and C3) during Construction Phase

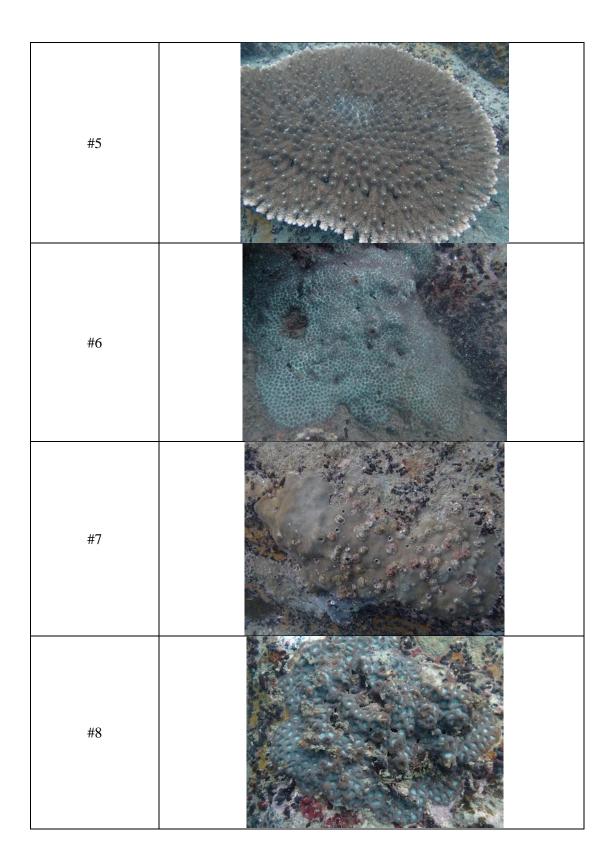
Figure 2 Proposed Control Site (C8) during Construction Phase



APPENDIX A TAGGED CORAL PHOTO

Tag #	17 th June 2024
#1	
#2	
#3	
#4	

Photo Plate A Tagged Corals at Control Site C8





Tag #	17 th June 2024					
#1						
#2						
#3						
#4						

Photo Plate B Tagged Corals at Indirect Impact Site C2

#5	
#6	
#7	
#8	
#9	



Tag #	17 th June 2024
#11	
#12	
#13	
#14	
#15	

Photo Plate C Tagged Corals at Indirect Impact Site C3

#16	
#17	
#18	
#19	
#20	

THE END





Appendix J

Site Inspection Proforma

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WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date: _	4 June 2024	Inspected by:	ET:	Toby Wan Tiffany Tsang		Derek Lai):
Inspect	ion Time: _	14:30		Contractor:		IEC			
Weath	ier								
Condi	tion	Sunny Fine	✓ Overcast	Drizzle	Rain	Storm	ŀ	Iazy	
Temp	erature	24 ^o C	Humidity	✔ High	Moderate	Low			
Wind		Calm	Breeze	Strong					
Item	EIA ref.					N/A	Yes	No	Photo/Remarks
No.									
0.00		General							
0.01		Is the current Environmental Per-	mit displayed co	onspicuously a	t all vehicle site				
		entrances/exits for public's information	ation at any time	?			v		
0.02		Is ET Leader's log-book kept readi	ly available for i	nspections?					
				inspections (\checkmark		
		Construction Dust							
1.00	S4.8.1	Are dusty materials, such as excav	vated materials, b	ouilding debris	and construction				
1.01		materials, and exposed earth surfac	e properly cover	ed to prevent d	ust emission?		<u> </u>		
1.02	S4.8.1	Are screenings, enclosures, water s	praving, or vacu	um cleaning de	evices provided to				

1.00		materials, and exposed earth surface properly covered to prevent dust emission?	
1.02	S4.8.1	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?	
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?	
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?	
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?	
1.06	S4.8.1	Are road section near the site exit free from dusty material?	
1.07	S4.8.1	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?	
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	
1.09	S4.8.1	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	
1.10	S4.8.1	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?	
1.11	S4.8.1	Is exposed earth properly treated within six months after the last construction activity on site?	
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?	
1.13	S4.8.1	Are vehicles travelling at speed not exceeding 15km/hr within the site?	
1.14	S4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	





					Photo/Remarks
No.					
1.15	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in 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	\$5.7	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?			
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?	✓		
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	~		
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	\$5.7	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?		✓	
3.05	S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?		\checkmark	





C		<u>ct no. 13/WSD/17 Design, Build and Operate First Stage of </u>	iseung Ky	wan O	Desann	ation Flant
tem No.	EIA ref.		N/A	Yes	No	Photo/Remarks
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		
3.07	S6.9	Is the drainage system properly maintained?		\checkmark		
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?		✓		
3.10	S6.9	Are temporary access roads protected by crushed gravel?	✓			
3.11	S6.9	Are exposed slope surface properly protected?				R
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		
3.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
3.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		
3.16	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?		✓		
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?		✓		
3.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		1		
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		1		
3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\checkmark		
3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		
3.24	\$6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?		\checkmark		
3.25	S6.9	Is closed grab dredger used to reduce the potential leakage of sediments?	 ✓ 			
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	✓			
3.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab 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?	 ✓ 			





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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	\$6.9	Are barges filled to a level which ensures that material does not spill over during				
5.52	50.7	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	50.9	moved from the dredging area after dredging?	1			
3.34	560	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
5.54	30.9	_				
		litter or other objectionable matter to be present in the water within and adjacent	\checkmark			
2.25	86.0	to the dredging site?				
3.35	\$6.9	When the dredged material has been unloaded at the disposal areas, is any material				
		accumulated on the deck or other exposed parts of the vessel removed and placed in				
	9.4.0	the hold or a hopper?				
3.36	S6.9	Is dredger maintained adequate clearance between vessels and the seabed at all				
		states of the tide and reduce operations speed to ensure that excessive turbidity is	\checkmark			
		not generated by turbulence from vessel movement or propeller wash?				
3.37	S6.9	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				
		curtain shall be repaired by the contractor promptly?	~			
3.38	S6.9	Are all vessels have a clean ballast system?				
		-				
3.39	S6.9	Are all vessels well maintained and inspected before use to limit any potential				
		discharges to the marine environment?				
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?				
3.41	S6.9	Is any soil waste disposed overboard?	\checkmark			
4.00		Waste Management				
	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?				
4.03	S8.5	Is the Contractor registered as a shemical waste producer?				
		Is the Contractor registered as a chemical waste producer?		_ ✓		
]					





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
4.04	S8.5	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?		\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 in that area, whichever is the greatest, provide?		\checkmark		
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		
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		✓		
4.16	S8.5	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		\checkmark		
4.17	S8.5	Are C&D wastes sorted on site?		\checkmark		
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	S8.5	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?				
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?		✓		
5.00	S11.10	Landscape and Visual				
5.01	& 11.11	Are Is site hoarding provided?	✓			
5.02	S11.10 & 11.11	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		
5.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?	\checkmark			
L	J					





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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?		\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?		\checkmark		
5.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?	>			
6.00 6.01		Ecology Is site runoff properly treated to prevent any silly runoff?		\checkmark		
6.02	S9.7	Are silt trap installed and well-maintained?	\checkmark	\square		
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	S9.7	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?	~			
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?	✓			
6.13		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		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		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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?	 Image: A second s			
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		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?		\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?	\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?	 ✓ 			
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?	 ✓ 			
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		





R	ensark / Follow up of Ob	servation(s) and Non-compliance	e(s) of Last Weekly Site Inspec	lion:		
	No maj	or observation	was found	during	site inspection	、 ,
	Signatures:					
	ET Representative	Contractor's Representative	Supervising Officer's Representative	IEC's Representative 2445	WSD's Representative	
	(Name: Tohy War	n) (Name: Titley Tsup	(Name: Reek a)	(Name: Serene Shek) (Name:)





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date: _	11 June 2024 Inspected by: ET: Alex LEUNG Contractor: Tiffany Tsang		SO: <u>Derek Lai</u> WSD: IEC:			
Inspect	ion Time: _		IEC				
Weath Condit Tempe Wind		Sunny Fine Overcast Drizzle Rain 28 °C Humidity High Moderate Calm Light Breeze Strong	Storm	Haz	ry		
Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks	
0.00 0.01		General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?		✓			
0.02		Is ET Leader's log-book kept readily available for inspections?		✓			
1.00 1.01	S4.8.1	Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?		✓			
1.02	S4.8.1	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?					
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?	 ✓ 				
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?		\checkmark			
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?		\checkmark			
	S4.8.1	Are road section near the site exit free from dusty material?		\checkmark			
1.07	S4.8.1	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		\checkmark			
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty materials?		\checkmark			
1.09	S4.8.1	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?		1			
1.10	S4.8.1	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?		\checkmark			
1.11	S4.8.1	Is exposed earth properly treated within six months after the last construction activity on site?	✓				
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?		\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 covered or sheltered on top and 3 sides?		\checkmark			





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.15	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	~			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	✓			
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?	✓			
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?	~			
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?	 ✓ 			
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	✓			
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	\checkmark			
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?	✓			
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				
	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?		✓		
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				
		to remove sand/silt particles from runoff?		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No. 3.06	S6.9	Is surface runoff diverted to sedimentation facilities?				
2.07	S6.9	is surface funori diverted to sedimentation facilities?		\checkmark		
3.07	56.9	Is the drainage system properly maintained?		\checkmark		
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	\checkmark			
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?		\checkmark		
3.10	S6.9	Are temporary access roads protected by crushed gravel?	✓			
3.11	S6.9	Are exposed slope surface properly protected?	✓			"
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		
3.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
3.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm drainage system?		✓		
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?		1		
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?		✓		
3.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		\checkmark		
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		\checkmark		
3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\checkmark		
3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		
3.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?		✓		
3.25	S6.9	Is closed grab dredger used to reduce the potential leakage of sediments?	✓			
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	\checkmark			
3.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab 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?	 ✓ 			





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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?				
3.30	56.0	Is dredged marine sediment disposed of in a gazetted marine disposal area in				
5.50	50.9					
		accordance with marine dumping permit conditions of the Dumping at Sea	\checkmark			
		Ordinance (DASO)?			<u> </u>	
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of				
		material during transport?				
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?				
3.34	S6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
		litter or other objectionable matter to be present in the water within and adjacent				
		to the dredging site?	\checkmark			
3.35	S6.9	When the dredged material has been unloaded at the disposal areas, is any material				
		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?	√			
2.27	96.0					
3.37	S6.9	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				
		curtain shall be repaired by the contractor promptly?	~			
3.38	S6.9	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?				
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?				
3.41	S6.9	Is any soil waste disposed avarbased?				
		Is any soil waste disposed overboard?	\checkmark			
4.00	1	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?				
4.02	58 5	Is a recording system implemented to record the amount of wastes generated,				
4.02	30.5					
4.02	C 9 5	recycled and disposed of?				
4.03	58.5	Is the Contractor registered as a chemical waste producer?				
1		as the conductor registered us a chemical waste producer.				
	1					





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
4.04	S8.5	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?		1		
4.06	S8.5	Is drip tray provided for chemical storage?		\checkmark		
4.07	S8.5	Are all containers for chemical waste properly labelled?		1		
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		\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		
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during				
		transportation of waste?		\checkmark		
4.16	S8.5	Are individual collectors for aluminum cans, plastic bottles and packaging material				
		and office paper provided to encourage waste segregation?		\checkmark		
4.17	S8.5	Are C&D wastes sorted on site?		\checkmark		
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	S8.5	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	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 & 11.11	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		
5.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?	✓			
L	1					





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	S11.10					
5.01	& 11.11	Is grass hydroseeding provided to slopes as soon as the completion of works?	1			
5.05	S11.10 &					
5.05		Are damages to trees outside site boundary due construction works avoided?				
	11.11					
5.06		Is excavation works carried out manually instead of machinery operation within 2.5m				
	11.11	vicinity of any preserved trees?				
5.07	S11.10 &	Are the retained and transplanted tree(s) properly protected and in good conditions?				
	11.11	Are the retained and transplaned tree(s) property 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?				
		is she fundit property iteated to prevent any smy fundit?				
6.02	S9.7	Are silt trap installed and well-maintained?				
6.03	S9.7					
0.05	59.7	Are stockpiles properly covered to avoid generating silty runoff?				
6.04	S9.7					
0.04	39.7	Are construction works restricted to works area which are clearly defined?				
6.05	50.7					
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	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				
		individuals?	▼			
6.08	S9.7	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	S9.7	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				
0.10		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?				
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			
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		
6.1.4	50.7	Te and demonstrated distributions are ideal as which have been than 2011 1100 1100 1100 1100 1100 1100 110				
6.14	59./	Is any damage and disturbance avoided, particularly those caused by filling and illegal		\checkmark		
1		dumping, to the surrounding habitats through proper management of waste disposal?				





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
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		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?		1		
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		1		
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?		\checkmark		
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?	✓			
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?		1		
8.00 8.01		Overall Is the EM&A properly implemented in general?		\checkmark		





Rema	ark / Follo	ow up of Observa	tion(s) a	nd Non-complia	nce(s) o	of Last Weel	dy Site Inspe	ection:				
Re	eminde	r".										
Ũ	The	contractors Contractors	are	reminde 2	t_{0}	mainta	in the	land scap	pe work	c.(near	Rø	Building)
Q	The	Contractors	Dre	reminde d	to	clear	the	stangent	water.	齿		
	Signati	ires:										
	ET Repress	entative	Contra Repres	actor's sentative		Supervising Representa		IEC's Represen	tative	WSD's Represen	tative	
	(Name:	Alex Lerry)	(Nam	e: Tillen Tsmy	5	(Name: V	2 de Los) (Name:) (Name:)





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Dat	: <u>18 June 2024</u>	Inspected by:	ET:	Toby Wan		erek Lai	WSI	D:
Inspection Tim	e:14:00		Contractor:	Tiffany Tsang	IEC:			
Weather								
Condition	Sunny 🖌 Fine	Overcast	Drizzle	Rain	Storm	Н	azy	
Temperature	29 °C	Humidity	✓ High	Moderate	Low			
Wind	✓ Calm Light	Breeze	Strong					
L								
Item EIA re					N/A	Yes	No	Photo/Remarks
No.								
0.00	General							
0.01	Is the current Environmental Per			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 i	nspections?			\checkmark		
	Construction Dust							
1.00 S4.8.	Are dusty materials, such as excav	vated materials, b	building debris	and construction		\checkmark		
1.01	materials, and exposed earth surfac	e properly cover	ed to prevent d	ust emission?				
1.02 S4.8.	Are screenings, enclosures, water s	praying, or vacu	um cleaning de	vices provided to				Obs.1
	dusty construction works for dust s	uppression?					V	
1.03 S4.8.	Are fumes or smoke emitting plants	s or construction	activities shiel	ded by a screen?	\checkmark			
1.04 S4.8.	Are wheel-washing facilities with h	nigh-pressure wa	ter jets provide	d at all site exits?		\checkmark		
1.05 S4.8.	Is wheel-washing provided to all ve	ehicles leaving th	ne site?			\checkmark		
1.06 S4.8.	Are road section near the site exit f	ree from dusty m	naterial?			\checkmark		
1.07 S4.8.	Are all main haul roads inside the	e site paved or s	sprayed with w	vater to minimize				
	dust emission during vehicle move	ment?				V		
1.08 S4.8.	Are water spraying provided imme materials?	ediately prior to	any loading or	transfer of dusty		\checkmark		
1.09 S4.8.	Are covers provided to all dump tr leaving the site?	ucks carrying du	isty materials v	hen entering and		\checkmark		
1.10 S4.8.	Are the working areas for uprootin	ng of trees, shrut	bs, or vegetatio	on or the removal				
	of boulders, poles, pillars sprayed v	with water to mai	intain the entire	surface wet?		\checkmark		
1.11 S4.8.	Is exposed earth properly treated	within six more	nths after the	last construction				
	activity on site?							
1.12 S4.8.	Does the operation of plants on site	e free form dark s	smoke emissior	1?		\checkmark		
1.13 S4.8.	Are vehicles travelling at speed not	exceeding 15km	n/hr within the	site?		\checkmark		
1.14 S4.8.	Are stock of more than 20 bags of	cement or day I	PFA covered of	r sheltered on top				
	and 3 sides?	2		1		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.15	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	√			
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)				
	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?	\checkmark			
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	\checkmark			
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?	✓			
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	1	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		
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3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?		\checkmark		
3.05	\$6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?		✓		
L	1	<u> </u>				





tem	EIA ref.	ct no. 13/WSD/17 Design, Build and Operate First Stage of [N/A	Yes	No	Photo/Remarks
No.			14/24	103	110	Thoto, Remarks
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		
3.07	S6.9	Is the drainage system properly maintained?		✓	\Box	
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works				
		during rainy seasons?	\checkmark			
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the				
		potential of soil erosion?		\checkmark		
3.10	S6.9	Are temporary access roads protected by crushed gravel?	\checkmark			
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?		V		
3.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
3.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		
3.16	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		
3.20	560	Are tanks, containers, storage area bunded and the locations locked as far as				
5.20	30.9	possible from the sensitive watercourse and stormwater drains?		\checkmark		
3.21	\$6.9	Are sufficient chemical toilets provided on site to handle sewage from construction				
		work force?		\checkmark		
3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets				
		provided by the licensed contractors?		V		
3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		
3.24	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	S6.9	Is closed grab dredger used to reduce the potential leakage of sediments?	\checkmark			
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	✓		\Box	
3.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab				
		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?	\checkmark			





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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?	_ ✓			
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				
	50.9	transport to the disposal site and that adequate freeboard is maintained to ensure				
		that the decks are not washed by wave action?	1			
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	86.0	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
5.54	30.9					
		litter or other objectionable matter to be present in the water within and adjacent	\checkmark			
2.25	96.0	to the dredging site?				
3.35	\$6.9	When the dredged material has been unloaded at the disposal areas, is any material				
		accumulated on the deck or other exposed parts of the vessel removed and placed in				
	9.4.0	the hold or a hopper?				
3.36	S6.9	Is dredger maintained adequate clearance between vessels and the seabed at all				
		states of the tide and reduce operations speed to ensure that excessive turbidity is	\checkmark			
		not generated by turbulence from vessel movement or propeller wash?				
3.37	S6.9	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				
		curtain shall be repaired by the contractor promptly?	v			
3.38	S6.9	Are all vessels have a clean ballast system?				
			~			
3.39	S6.9	Are all vessels well maintained and inspected before use to limit any potential				
		discharges to the marine environment?				
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?	↓			
3.41	S6.9	Is any soil waste disposed overboard?				
			~			
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		
4.03	S8.5					
		Is the Contractor registered as a chemical waste producer?		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
4.04	S8.5	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?		\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?		1		
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 in that area, whichever is the greatest, provide?		\checkmark		
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		R2
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		\checkmark		
4.16	S8.5	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		\checkmark		
4.17	S8.5	Are C&D wastes sorted on site?		\checkmark		
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	S8.5	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	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?		✓		
5.00	S11.10	Landscape and Visual				
5.01		Are Is site hoarding provided?	\checkmark			
5.02	S11.10 & 11.11	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		
5.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?	\checkmark			
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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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?		\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?		\checkmark		
5.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?	~			
6.00 6.01		Ecology 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?		✓		
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	S9.7	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?	 Image: A start of the start of			
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?	✓			
6.13		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		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		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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?	 Image: A second s			
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		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?		\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	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		







Observed on 18 June 2024	Rectified by the Contractor on 18 June 2024
Observation(s)	
Observation 1	
Water spray should be provided during breaking.	Water spray is provided during breaking.
(Near RO building)	
	2024年6月18日 14:45:34





WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

	24 June 2024	Inspected by:	ET: Contractor:	Toby Wan Tiffany Tsang	SO: <u>Derek Lai</u> WSD: IEC: <u>Serena Shek</u>	—
Inspection Time:	9:30					
Weather						
Condition	Sunny √ Fine	Overcast	Drizzle	Rain	Storm	
Temperature	29 °C	Humidity	√ High	Moderate	Low	
Wind	Calm	Breeze	Strong			

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
0.00 0.01		General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?		✓		
0.02		Is ET Leader's log-book kept readily available for inspections?		\checkmark		
1.00 1.01	\$4.8.1	Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?		✓		
1.02	S4.8.1	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?		\checkmark		
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?	✓			
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?		\checkmark		
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?		\checkmark		
1.06	S4.8.1	Are road section near the site exit free from dusty material?		\checkmark		
1.07	S4.8.1	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		\checkmark		
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty materials?		\checkmark		
1.09	S4.8.1	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?		\checkmark		
1.10	S4.8.1	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?		\checkmark		
1.11	S4.8.1	Is exposed earth properly treated within six months after the last construction activity on site?	1			
1.12	\$4.8.1	Does the operation of plants on site free form dark smoke emission?		\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 covered or sheltered on top and 3 sides?		\checkmark		





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.15	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	√			
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)				
	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?	\checkmark			
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	\checkmark			
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	1	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	\$6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?		\checkmark		
L	1	<u></u>				





tem	EIA ref.	ct no. 13/WSD/17 Design, Build and Operate First Stage of [N/A	Yes	No	Photo/Remarks
No.			14/24	103	110	Thoto, Remarks
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		
3.07	S6.9	Is the drainage system properly maintained?		√	\Box	
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works				
		during rainy seasons?	\checkmark			
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the				
		potential of soil erosion?		\checkmark		
3.10	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?		V		
3.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
3.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		
3.16	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?		<u> </u>		
3.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as				
		possible from the sensitive watercourse and stormwater drains?		\checkmark		
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction				
		work force?		V		
3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets				
		provided by the licensed contractors?		v		
3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?		\checkmark		
3.24	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	S6.9	Is closed grab dredger used to reduce the potential leakage of sediments?	✓			
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?			\Box	
3.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab			I	
		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?	\checkmark			
]					





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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				
	50.9	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	86.0	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
5.54	30.9	_				
		litter or other objectionable matter to be present in the water within and adjacent	\checkmark			
2.25	96.0	to the dredging site?				
3.35	\$6.9	When the dredged material has been unloaded at the disposal areas, is any material				
		accumulated on the deck or other exposed parts of the vessel removed and placed in				
	9.4.0	the hold or a hopper?				
3.36	S6.9	Is dredger maintained adequate clearance between vessels and the seabed at all				
		states of the tide and reduce operations speed to ensure that excessive turbidity is	\checkmark			
		not generated by turbulence from vessel movement or propeller wash?				
3.37	S6.9	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				
		curtain shall be repaired by the contractor promptly?	\checkmark			
3.38	S6.9	Are all vessels have a clean ballast system?				
			~			
3.39	S6.9	Are all vessels well maintained and inspected before use to limit any potential				
		discharges to the marine environment?	~			
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?	✓			
3.41	S6.9	Is any soil waste disposed overboard?				
		is any son 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		
4.03	S8.5					
		Is the Contractor registered as a chemical waste producer?		\checkmark		
				_	_	





Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
4.04	S8.5	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?		\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 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		R1
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 and office paper provided to encourage waste segregation?		\checkmark		
4.17	S8.5	Are C&D wastes sorted on site?		\checkmark		
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	S8.5	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	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?		✓		
5.00	S11.10	Landscape and Visual				
		Are Is site hoarding provided?	\checkmark			
5.02	S11.10 & 11.11	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		
5.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?	\checkmark			
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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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?		\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?		\checkmark		
5.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?	~			
6.00 6.01		Ecology 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?		✓		
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	S9.7	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?	 Image: A start of the start of			
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?	✓			
6.13		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		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		





Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
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?	 Image: A second s			
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		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?		\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	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		





Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Dorte = 24 June 2024 Reminder 1: The contractor was reminded to maintain the site cleanliness. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative 20 n (Name: Verek LCN) (Nan Toby War (Name: 22 Tithe The (Name: Serona Stek (Name: How M 1, WG





Appendix K

Complaint Log

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Statistical Summary of Environmental Complaints

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

Statistical Summary of Environmental Summons

Demonting Devia d	Environmental Summons Statistics							
Reporting Period	Frequency	Cumulative	Details					
1 – 31 May 2024	0	0	N/A					

Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics							
Reporting Period	Frequency	Cumulative	Details					
1 – 31 May 2024	0	0	N/A					

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Appendix L

Exceedance Report (s)

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Bi-Weekly Incident Report on Action Level or Limit Level Non-Compliance

Date of	Monitoring Station	Tide	Parameter	Result	Sampling	Depth Average Result	Action Level (mg/L)		Limit Level (mg/L)		Exceedance	Marine construction activities with	Ех
exceedance					depth	(mg/L)	95%- ile	Control 120%	99%- ile	Control 130%		contact with water (Y/N)	
08/06/2024	WSR1	Flood	Suspended Solid (SS)			3.50	5.00	3.20	6.00	3.47	Limit Level	Ν	
08/06/2024	WSR37	Flood	Suspended Solid (SS)			3.83	5.00	3.20	6.00	3.47	Limit Level	Ν	
11/06/2024	WSR1	Flood	Suspended Solid (SS)			4.42	5.00	4.20	6.00	4.55	Action Level	Ν	
	WSR4	Flood	Suspended Solid (SS)			6.50	5.00	3.30	6.00	3.58	Limit Level	Ν	
	WSR16	Flood	Suspended Solid (SS)			5.33	5.00	3.30	6.00	3.58	Limit Level	Ν	
	WSR33	Flood	Suspended Solid (SS)			3.92	5.00	3.30	6.00	3.58	Limit Level	Ν	
13/06/2024	WSR36	Flood	Suspended Solid (SS)			3.58	5.00	3.30	6.00	3.58	Action Level	Ν	
	WSR37	Flood	Suspended Solid (SS)			4.67	5.00	3.30	6.00	3.58	Limit Level	Ν	
	NF1	Flood	Suspended Solid (SS)			4.92	5.00	3.30	6.00	3.58	Limit Level	Ν	
	NF3	Flood	Suspended Solid (SS)			7.00	5.00	3.30	6.00	3.58	Limit Level	Ν	

1) Control station value already exceed either the Action or Limit Level.

2) No silt plume or pollution discharge from site area was observed.

3) Rainfall was recorded at Tseung Kwan O during the monitoring period, rainfall may lead to release of SS content form the soil of the nearby lands (e.g., Country Park, fill bank).

4) No action and limit level exceedance observed at WSR37 (Outfall Shaft).

5) Marine construction activity was completed.

6) No pre-operation activities related to the release of SS in the reporting period.

7) Water quality mitigation measures were observed maintained / implemented properly (double silt curtain).

Conclusion:

During water quality monitoring on 8 June 2024, 11 June 2024 and 13 June 2024, two (2) Action Level and eight (8) Limit Level exceedances were recorded during mid-flood tide. Total two(2) Action Level and eight (8) Limit Level exceedances for SS of impact water quality monitoring were recorded between 1 June to 15 June 2024.

The marine construction works were completed on 1 September 2023. The commissioning activities were shown in the table below.

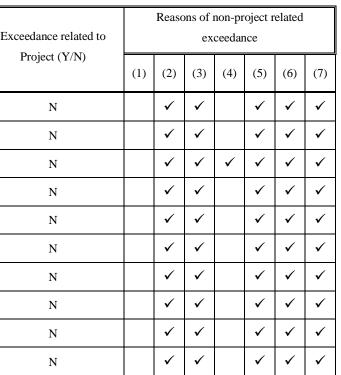
The desalination plant and the outfall shaft work normally.

After investigation, all exceedances were considered non-project related.

Pre-operation Activities:

8 June 2024	11 June 2024
 Production of desalinated water I&C CALIBRATION WORK Actidaff backwashing 	 Production of desalinated water I&C CALIBRATION WORK Actidaff backwashing
13 June 2024	
 Production of desalinated water I&C CALIBRATION WORK Actidaff backwashing 	





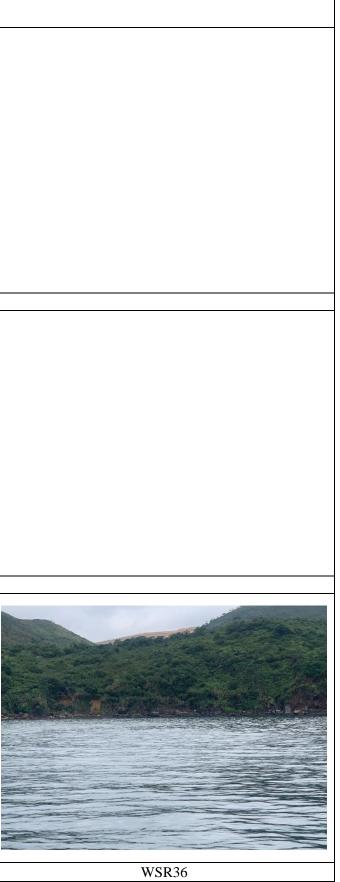
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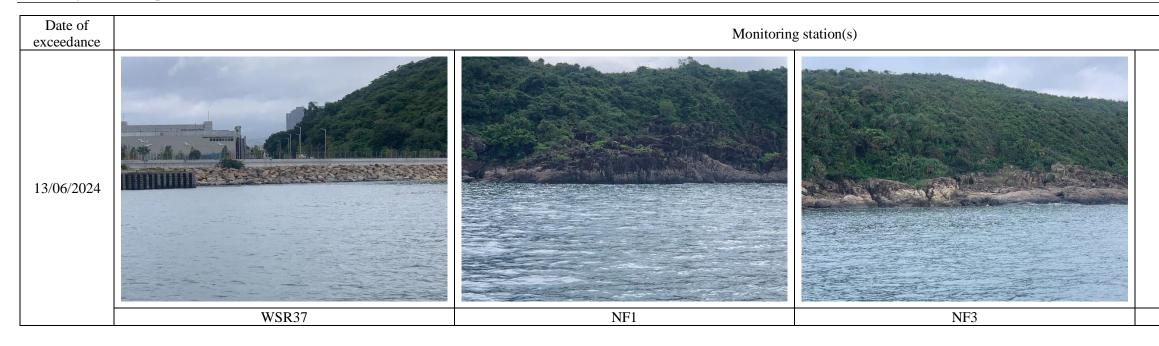
Supporting Photo:

Date of exceedance	Monitoring station(s)								
08/06/2024									
	WSR1	WSR37							
11/06/2024									
	WSR1								
13/06/2024									
	WSR4	WSR16	WSR33						





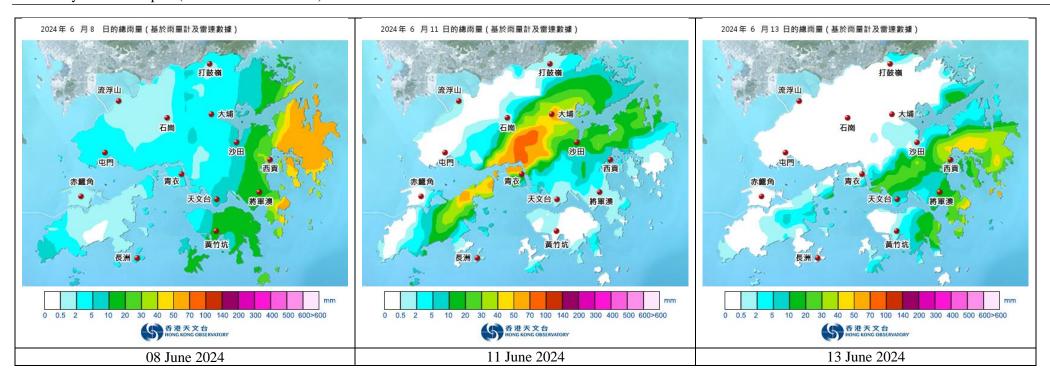








Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Bi-Weekly Incident Report (1 June to 15 June 2024)







Bi-Weekly Incident Report on Action Level or Limit Level Non-Compliance

Image: section of the sectio	Date of	Monitoring	Tide	Parameter	Result	Sampling	Depth Average Result		on Level mg/L)	Limit Level (mg/L)		Exceedance	Marine construction activities with	Ех
W5R2 W5R3 W5R4 W5R4 W5R4 W5R4 W5R4 W5R4 W5R6 W5R6 	exceedance	Station			(mg/L)	depth	(mg/L)						contact with water (Y/N)	
W5R3 W5R4 W5R4 W5R4 W5R4 W5R4 W5R4 W5R4 W5R4 W5R4 W5R4 W5R4 W5R4 Suspended Solid W5R4 6.63 W5R4 6.617 W5R4 6.617 W5R4 6.617 W5R4 6.617 W5R4 6.617 W5R4 6.60 W5R4 6.60 W5R4 6.60 W5R4 6.60 W5R4 6.60 W5R4 6.60 6.60 6.60 6.60 W5R4 W5R4 W5R4 W5R4 <t< td=""><td></td><td>WSR1</td><td></td><td></td><td></td><td></td><td>6.00</td><td></td><td></td><td></td><td></td><td>Limit Level</td><td>Ν</td><td></td></t<>		WSR1					6.00					Limit Level	Ν	
Image: Normal synthesis in the synthesynthesis in the synthesis in the synthesis in the synthesis in t		WSR2					6.17					Limit Level	N	
WSR16 WSR16 Image: Supercised Section (SS) Image: Supercised Sectin (SS) Image: Sup		WSR3					6.17		4.80		5.20	Limit Level	Ν	
$1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $		WSR4					6.33			6.00		Limit Level	Ν	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		WSR16					6.17	5.00				Limit Level	Ν	
WSR36 WSR37 NF1 5.00 NF1 6.50 NF1 6.00 NF2 6.00 NF2 5.67 NF3 5.67 NF3 5.83 NF3 5.83 NF3 4.83 NSR4 WSR4 WSR4 WSR3 NF1 WSR4 WSR4 MSR3 NF2 NF2 NF1 NF2 NF1 NF2 NF1 NF2 NF1 NF2 NF1 NF2 NF1 <td>20/06/2024</td> <td>WSR33</td> <td>Ebb</td> <td rowspan="6">Suspended Solid (SS)</td> <td></td> <td></td> <td>4.83</td> <td>Action Level</td> <td>Ν</td> <td></td>	20/06/2024	WSR33	Ebb	Suspended Solid (SS)			4.83					Action Level	Ν	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		WSR36					5.00					Action Level	Ν	
$ \begin{array}{ c c c c c c c c c } \hline c c c c c c c c c c c c c c c c c c $		WSR37					6.50					Limit Level	Ν	
$ \begin{array}{ c c c c c c } \hline c c c c c c c c c c c c c c c c c c $		NF1					6.00					Limit Level	Ν	
Image: Construction of the state o		NF2					5.67					Limit Level	Ν	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		NF3					5.83					Limit Level	Ν	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		WSR3					4.83		4.80 6.1		5.20	Action Level	Ν	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		WSR4					6.83					Limit Level	Ν	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	27/06/2024	WSR16	Flood				5.67	5.00		6.00		Limit Level	Ν	
NF1 Flood Suspended Solid (SS) 3.83 5.00 3.50 6.00 3.79 Limit Level N		WSR33	-				5.67					Limit Level	Ν	
29/06/2024 NF2 Flood Suspended Solid (SS) 3.83 5.00 3.50 6.00 3.79 Limit Level N		NF2					5.17					Action Level	Ν	
29/00/2024 NF2 Flood (SS) 5.85 5.00 5.30 0.00 5.79 Limit Level N		NF1					3.83				5.00 3.79	Limit Level	Ν	
	29/06/2024	NF2	Flood	d Suspended Solid			3.83	5.00	3.50 6.0	6.00		Limit Level	Ν	
NF5 5.0/ Limit Level N		NF3		(22)			5.67					Limit Level	Ν	

1) Control station value already exceed either the Action or Limit Level.

2) No silt plume or pollution discharge from site area was observed.

3) Rainfall was recorded at Tseung Kwan O during the monitoring period, rainfall may lead to release of SS content from the soil of the nearby lands (e.g., Country Park, fill bank).

4) No action and limit level exceedance observed at WSR37 (Outfall Shaft).

5) Marine construction activity was completed.

6) No pre-operation activities related to the release of SS in the reporting period.

7) Water quality mitigation measures were observed maintained / implemented properly (double silt curtain).

Conclusion:

During water quality monitoring on 20 June 2024, 27 June 2024, and 29 June 2024, two (2) Action Level exceedances and nine (9) Limit Level exceedances were recorded during mid-ebb tide. Two (2) Action Level and six (6) Limit Level exceedances were recorded during mid-flood tide. Total four (4) Action Level and fifteen (15) Limit Level exceedances for SS of impact water quality monitoring were recorded between 16 June to 30 June 2024.

The marine construction works were completed on 1 September 2023. The commissioning activities were shown in the table below.

The desalination plant and the outfall shaft work normally.

After investigation, all exceedances were considered non-project related.



aurecon



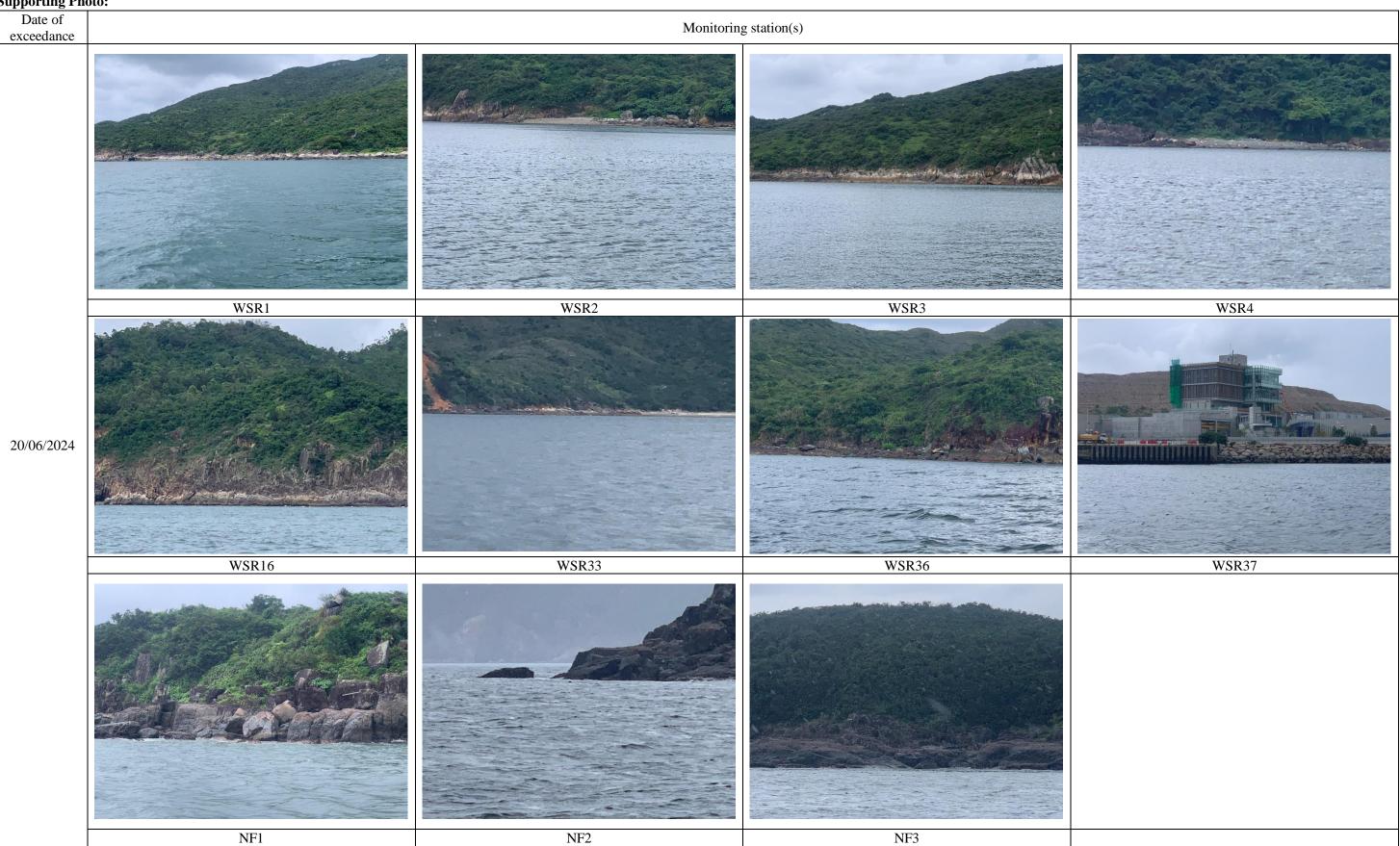
Pre-operation Activities:

20 June 2024	27 June 2024
 Production of desalinated water Actidaff backwashing 	 Production of desalinated water Actidaff backwashing Water sampling and analysis
29 June 2024	
 Production of desalinated water Actidaff backwashing Water sampling and analysis 	



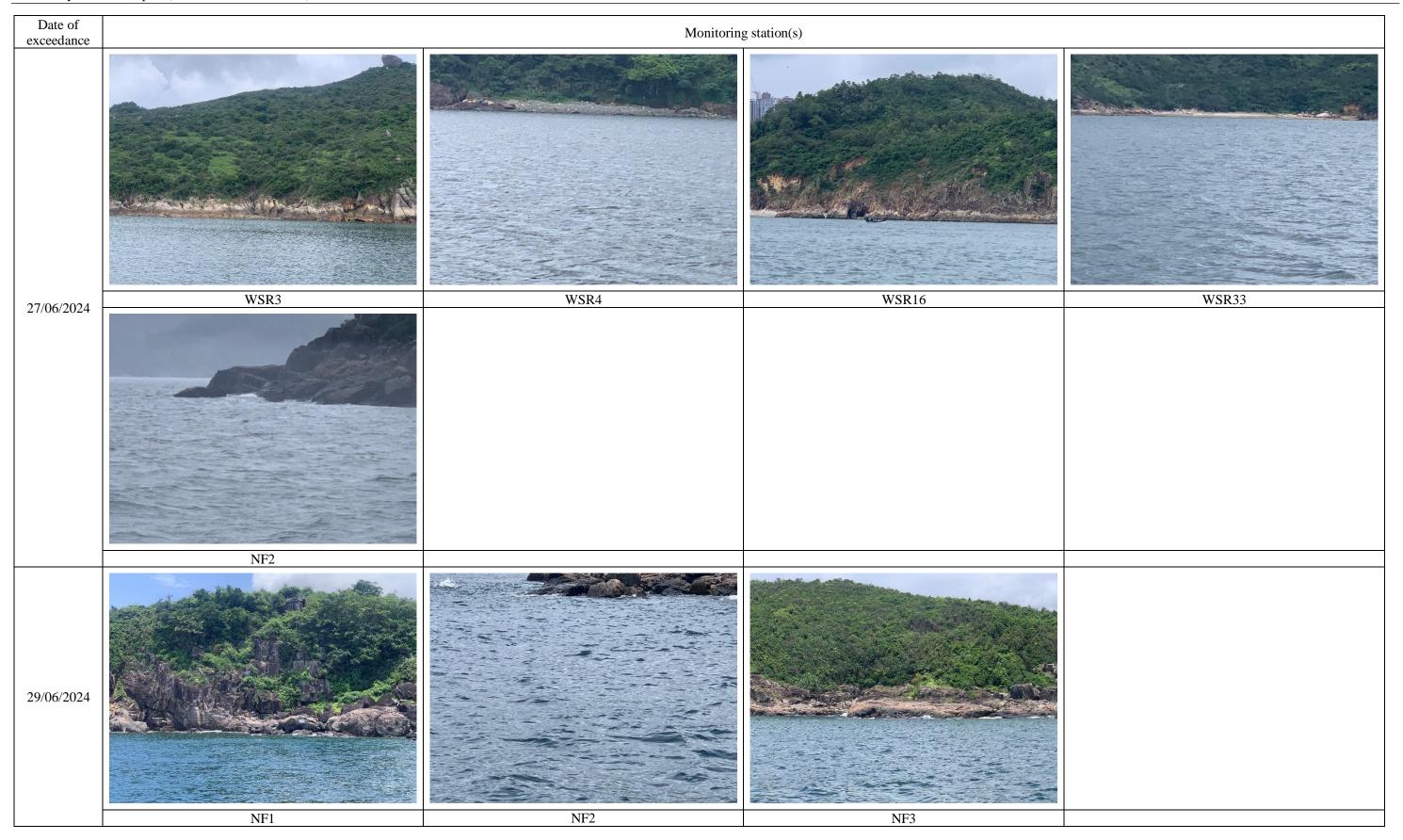


Supporting Photo:













Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Bi-Weekly Incident Report (16 June to 30 June 2024)

