



## Contract No. 13/WSD/17

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

# Operation Phase Monthly EM&A Report No.1 (Period from 1 July to 31 July 2024)

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Date:	22 August 2024



Our ref.: LES/J2024-01/CS/L032 Date : 23 Aug 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

#### <u>Dear Sirs,</u>

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 Operation Phase Monthly Environmental Monitoring and Audit (EM&A)

#### Report for July 2024

Referring to the Operation Phase Monthly Environmental Monitoring and Audit Report (July 2024) Rev.5.0 as submitted by the Environmental Team on 22 August 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(Attn.: Derek Lai)Aurecon(Attn.: Toby Wan)

By E-mail By E-mail



#### **REVISION HISTORY**

Rev.	<b>DESCRIPTION OF MODIFICATION</b>	DATE
1.	First Issue for Comments	12 August 2024
2.	Revised According to Comments	14 August 2024
3.	Revised According to Comments	15 August 2024
4.	Revised According to Comments	16 August 2024
5.	Revised According to Comments	22 August 2024



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#### **EXECUTIVE SUMMARY**

#### **INTRODUCTION**

- A1. The Project, Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (TKODP), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (EP No. FEP – 01/503/2015/B) for the operation phase 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, waste management and ecology should be carried out by Environmental Team (ET), Aurecon Hong Kong Limited (Aurecon), during the Tseung Kwan O Desalination Plant.
- A3. The TKODP commenced the operation stage on 1 July 2024. This is the 1<sup>st</sup> Operation Phase Monthly EM&A Report, prepared by Aurecon, 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 first-year operation of Tseung Kwan O Desalination Plant in July 2024.
- A4. The EM&A programme for this contract has covered environmental monitoring on water quality and Contractor's environmental performance auditing in the aspects of dust, landfill gas, water quality, waste management, Landscape and Visual and Ecology.

#### **SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP**

#### WATER QUALITY MONITORING

- A5. The EM&A works for operation phase marine water quality were conducted during the reporting period in accordance with the EM&A Manual. Seven (7) of SS obtained had exceeded the Action Level. Forty-nine (49) of SS obtained during the reporting period had exceeded the Limit Level.
- A6. The EM&A works for continuous monitoring of effluent quality were conducted during the reporting period in accordance with the EM&A Manual. No exceedance of the sampling was obtained during the reporting period had exceeded the Limit Level.

#### **ECOLOGY IMPACT MONITORING**

- A7. Monthly operation phase coral monitoring works was conducted on 18 July 2024. There is no AL/LL exceedance during the monitoring period.
- A8. 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 Construction Phase Monthly EM&A Report.

#### LANDFILL GAS MONITORING

A9. In this reporting period, monthly landfill gas monitoring was conducted on 18 and 19 July 2024. No exceedances of action level and limit level was observed.

#### **WEEKLY SITE INSPECTIONS**

A10. In this reporting period, site inspections were carried out by ET on 2, 9, 16, 23 and 29 July 2024. Joint site inspections of the operation work by ET were and IEC were carried out on 29 July 2024 to audit the mitigation measures implementation status.

#### **COMPLAINT HANDLING AND PROSECUTION**

A11. No environmental complaint, notification of summons and prosecution was received in the reporting period.

#### **REPORTING CHANGE**

- A12. There was no change to be reported that may affect the on-going EM&A programme.
- A13. According to the contractor's information, the TKODP commenced operation phase on 1 July 2024. The outstanding construction works would still be carried out. Details of the construction phase monitoring will be presented in the Construction Phase Monthly EM&A Report.



#### **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. Aurecon Hong Kong Limited (Aurecon) 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-01/503/2015/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 1<sup>st</sup> Operation Phase Monthly EM&A Report for the Contract which summarizes the key findings of the EM&A programme of the Tseung Kwan O Desalination Plant Operation phase during the reporting period from 1 July 2024 to 31 July 2024.

#### **CONTRACT ORGANIZATION**

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

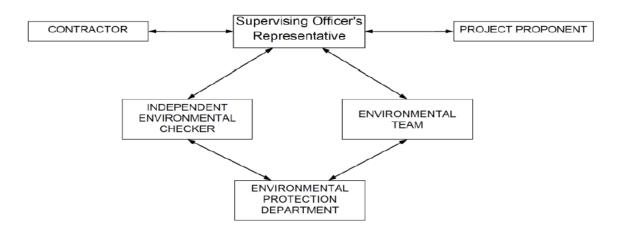


Figure 1.1Contract Organization Chart

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	Environmental Monitoring Manager	Brian Kam	9456-9541
Acciona Agua, S.A. Trading	Environmental Monitoring Manager	Tommy Law	6468-1782
Aurecon Hong Kong Limited	Environmental Team Leader	Toby Wan	9719-5422
Lam Environmental Services Limited	Independent Environmental Checker (IEC)	Serena Shek	6149-6683

#### **SUMMARY OF OPERATION WORKS**

- 1.7. Details of the major operation activities undertaken in this reporting period are shown below.
- 1.8. As informed by the Contractor, key activities carried out in this reporting period for the Contract included the followings:
  - Production of water
- 1.9. The key environmental mitigation measures implemented for the Contract in this reporting period associated with the above operation works include:
  - Regularly monitoring of the effluent
  - Sorting and storage of general refuse and operation waste
- 1.10. Summary of the valid permits, licences, and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.



# Table 1.2Summary of the Status of Valid Environmental Licence, Notification,<br/>Permit and Documentations

Permit/	Valid	Period	Status	Remark	
Licences	From	То			
Environmental	Permit				
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	
Billing Account	for Disposal				
7036276	Throughout	the Contract	Valid	-	
Sludge (Special	Waste) Disp	osal (Admiss	ion Ticket)		
17913	01/07/2024		31/12/2024	Valid	
Chemical Wast	e Producer R	egistration			
5213-839- A2987-01	Throughout the Contract		Valid	-	
Wastewater Di	scharge Licer	ice (Land and	l Marine worl	ks)	
WT00035775- 2020	23/08/202 1	31/07/202 5	Valid	-	
WT00044188- 2023	16/06/202 3	30/06/202 8	Valid	<ul> <li>For Plant T&amp;C and operation.</li> <li>Variation sampling point S.P.1 is approved by the EPD on 25 June 2024 (EPD ref.: EP640/W3/D1358/46287 4).</li> </ul>	

1.11. 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<br/>Manual

Parameters	Status	
Water Quality		
Baseline Monitoring under EM&A Manual	The baseline water quality monitoring was conducted between 12 May 2020 to 6 Jun 2020.	
Operation phase Marine Impact Monitoring	On-going	
Continuous Monitoring of Effluent Quality	On-going	

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Parameters	Status	
Waste Management		
Mitigation Measures in Waste Management Plan	On-going	
Landfill Gas		
Monthly Monitoring for buildings, manholes and utility pits within the Project Site and along the fresh water mains	On-going	
Ecology (Coral)		
Operation phase Regular Coral Monitoring (Monthly)	On-going	
Ecology (Fishery)		
Operation phase Regular Fishery Monitoring (Seasonally)	On-going	
Landscape	·	
Operation phase Landscape and Visual Site Inspection	On-going	
Environmental Audit		
Site Inspection covering Measures of Air Quality, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	On-going	

- 1.12. Other than the EM&A work by ET, environmental briefings, trainings, and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.
- 1.13. The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the EM&A Manual. A summary of implementation status of the environmental mitigation measures for the operation phase of the Contract during the reporting period is provided in **Appendix B**.

### 2. WATER QUALITY

- 2.1. In accordance with the recommendations of the EIA, water quality monitoring is required 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.
- 2.2. 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.
- 2.3. Water quality monitoring for the Contract can be divided into the following stages:

(a) Operation phase Marine Water Quality Monitoring – first year upon commissioning

(b)Continuous Monitoring of Effluent Quality

#### WATER QUALITY PARAMETERS

2.4. Parameters to be measured in the marine water quality monitoring and the Continuous Monitoring of Effluent Quality are listed in **Table 2.1** and **Table 2.2** respectively.

a) Operation phase Marine Water Quality Monitoring

2.5. The parameters for the marine water quality monitoring 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 operation works or are a standard check on water quality conditions.

Parameters	Unit	Abbreviation		
In-situ measurements				
Dissolved oxygen	mg/L	DO		
Temperature	٥C	-		
рН	-	-		
Turbidity	NTU	-		
Salinity	0/00	-		
Total Residual Chlorine	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-		

Table 2.1Parameters measured in the Marine Water Quality Monitoring

\*Remark: Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.

b) Continuous Monitoring of Effluent Quality

2.6. The monitoring requirement for the continuous effluent quality monitoring shall be conducted in accordance with the effluent parameters and standards stipulated by the Water Pollution Control Ordinance Discharge License (No.: WT00044188-2023) conditions.

Parameters	Unit	Abbreviation
In-situ measurements		
Temperature	٥C	-
рН	рН	-
Salinity	0/00	-
Total Residual Chlorine	mg/L	TRC
Laboratory measurements		
Suspended Solids	mg/L	SS
Iron-Soluble	mg/L	Fe
Total Inorganic Nitrogen	mg/L	-
Total Phosphorus	mg/L	-
Sodium Metabisulphite	mg/L	SMBS
Anti-scalant as Reactive Phosphorus *	mg/L	PO4 as P-

 Table 2.2
 Parameters measured in the Continuous Monitoring of Effluent Quality

\*Remark: Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.

2.7. In addition to the marine 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**

a) Operation phase Marine Water Quality Monitoring

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

**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.

b) Continuous Monitoring of Effluent Quality

2.9. The equipment to be used for the effluent quality monitoring was summarizes in Table 2.3.

Equipment	Model	
Refrigerated Sampler	Teledyne ISCO 5800	
Online sampler for real-time monitoring (Xylem WTW IQ SensorNet system and sensors)	DIQ/S 284-PR: Universal Transmitter to operate up to 4 digital IQ sensors, with PROFIBUS-connection	

#### Table 2.3 Parameters measured in the Continuous Monitoring of Effluent Quality

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Equipment	Model
	TetraCon® 700 IQ SW: Digital 4 electrode conductivity cell, in seawater design, suited for heavily polluted water, for use with the IQ SENSOR NET. With integrated temperature sensor
	VisoTurb® 700 IQ SW: Digital turbidity sensor for industrial and seawater applications (ultrasonic cleaning) for use with the IQ SENSOR NET system
	SensoLyt® 700 IQ SW: Robust digital pH/ORP sensor for SensoLyt® SEA/ DWA/ECA/PtA pH/ORP electrodes, in sea water design, for use with the IQ SENSOR NET. With built-in pre-amplifier and temperature sensor (NTC), with SensCheck function
	FDO®700 IQ SW: Digital calibration free optical D.O. sensor (universal use). Optimized for measuring and controlling the O2 input in seawater applications, for use with IQ SENSOR NET. Factory calibrated system composed of sensor FDO® 700 IQ SW, membrane cap SCFDO® 700 and protective cap MSK FDO®
	Chlorine 3017M: Online analyzer for photometric measurement of free and total chlorine, according to colorimetric DPD Method (ISO &US EPA); outputs (selectable): 4 to 20 mA or RS 485

Based on Section 5.1.3 of the EM&A Manual, the online sampler for real-time monitoring will be tested before use by HOKLAS-accredited laboratory and will be re-calibrated at monthly intervals throughout the stages of effluent quality monitoring.

#### **SAMPLING / TESTING PROTOCOLS**

2.10. 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.

2.11. 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

- a) Operation phase Marine Water Quality Monitoring
- 2.12. 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.
- 2.13. Parameters for laboratory measurements, standard methods and detection limits are presented in **Table 2.4**.

Parameters	Standard Methods	Detection Limit	Reporting Limit	Precision
Dissolved oxygen	Instrumental, CTD	0.1	-	±25%
Temperature	Instrumental, CTD	0.1	-	±25%
рН	Instrumental, CTD	0.1	-	±25%
Turbidity	Instrumental, CTD	0.1	-	±25%
Salinity	Instrumental, CTD	0.1	-	±25%
Suspended Solids	APHA 23rd Ed 2540D	1.0	2.5	±17%
Iron	APHA 3111 B	0.2	-	±25%
Total residual chlorine	APHA 4500CL: G	0.01mg/L	-	±25%
Anti-scalant*	Content acrylic polymers determination method	5 mg/L	-	-

Table 2.4Laboratory measurements, standard methods, and corresponding<br/>detection limits of marine water quality monitoring

\*Remark: A proposal for update anti-scalant monitoring under the operation phase EM&A programme is proposed via email on 27 May 2024. EPD has agreed to update the anti-scalant monitoring detection limit, action and limit level from 0.2 mg/L to 5.0 mg/L (EPD ref. ()In EP 2/N8/E/120 Pt.14).

b) Continuous Monitoring of Effluent Quality

2.14. Analyses of the sample shall be carried out using American Public Health Association Standard Method for the Examination of Water and Wastewater or other internationally accepted standard methods proposed by the Licensee and approved by the Authority which could achieve the monitoring requirement.

Table 2.5 Measurements Metho	bus for continuous monitoring of Endent Quanty
Parameters	Standard Methods
Flow Rate (m3 / day)	In-house method
Temperature(°C)	Instrumental
Salinity (º/₀₀)	Instrumental
pH (pH units)	Instrumental
Suspended Solids (mg / L)	АРНА 2540Е
Iron (mg / L)	APHA 3111 B
Total Inorganic Nitrogen (mg / L)	In-house method
Total Phosphorous (mg / L)	In-house method
Total Residual Chlorine	APHA 4500CL: G
Sodium Metabisulphite	
Anti-scalant 'ACUMER' 4035*	

 Table 2.5
 Measurements Methods for Continuous Monitoring of Effluent Quality

\*Remark: Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.

#### **MONITORING LOCATION**

- a) Operation phase Marine Water Quality Monitoring
- 2.15. The operation phase water quality monitoring locations are in accordance with the EM&A Manual and detailed in **Table 2.6** 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.



Table 2.6	Location of Water Quality Monitoring Stations	

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, ~ 200m south of outfall diffuser

2.16. 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.



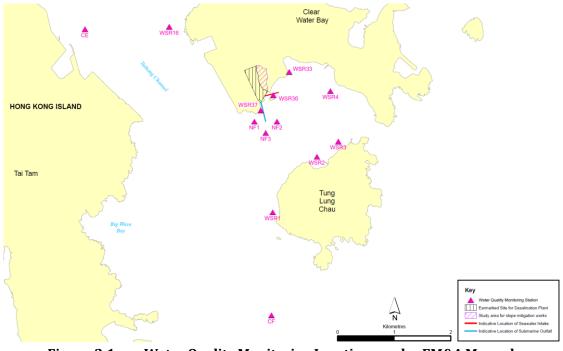
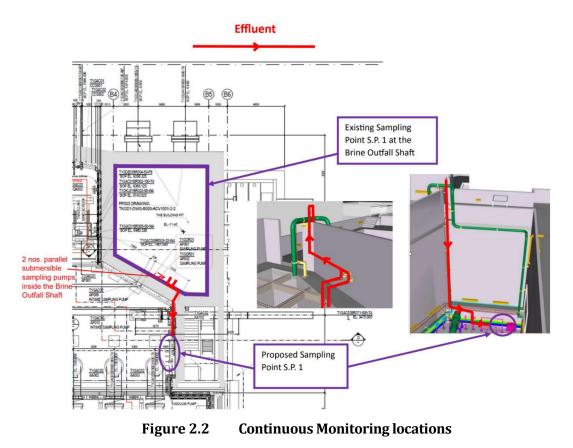


Figure 2.1 Water Quality Monitoring Locations under EM&A Manual

- b) Continuous Monitoring of Effluent Quality
- 2.17. In accordance with the discharge license, the Continuous Monitoring shall be sampling at Brine Outfall Shaft.



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#### SAMPLING FREQUENCY

a) Impact Marine Water Quality Monitoring

2.18. Water quality monitoring was carried out three days per week during the operation 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.

#### b) Continuous Monitoring of Effluent Quality

- 2.19. The effluent should be collected in a full 24-hour period. Twenty four-hour flowweighted composite effluent sample for subsequent chemical analysis and testing should be prepared by the following procedures:
  - Collect effluent sub-sample at bi-hourly interval over a 24 hour period
  - Obtain flow record of the Project for the 24-hour sampling period
  - Calculate the volume of each sub-sample for preparation of flow-weighted composite sample
  - Transfer the appropriate volume of sub-samples to a clean container and mix thoroughly

#### SAMPLING DEPTHS & REPLICATION

#### a) Operation phase Marine Water Quality Monitoring

- 2.20. During 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.
  - b) Continuous Monitoring of Effluent Quality
- 2.21. The effluent sampling should be planned carefully to ensure appropriate volume of effluent sub-samples is collected to prepare sufficient amount of flow-weighted composite effluent sample for carrying out subsequent chemical analysis and testing.

#### **ACTION AND LIMIT LEVELS**

2.22. 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 2.7** and **Table 2.8**.

#### a) Operation phase Marine Water Quality Monitoring

Parameters	Action	Limit						
Operation phase Marine Water Quality Monitoring								
DO in mg/L	Surface and Middle	Surface and Middle						
	7.30 mg L <sup>-1</sup>	4 mg L <sup>-1</sup>						
	<u>Bottom</u>	Bottom						
	7.31 mg L <sup>-1</sup>	2 mg L <sup>-1</sup>						
	Tung Lung Chau Fish Culture Zone	Tung Lung Chau Fish Culture Zone						
	5.1 mgL <sup>-1</sup> or level at control station	5.0 mgL <sup>-1</sup> or level at control station						
	(Whichever the lower)	(Whichever the lower)						
SS in mg/L	5.00 mg L <sup>-1</sup> or 20% exceedance of	6.00 mg L <sup>-1</sup> or 30% exceedance of valu						
(Depth-	value at any impact station	at any impact station compared wit						
averaged)	compared with corresponding data	corresponding data from contro						
	from control station	station						
Turbidity in	2.41 NTU or 20% exceedance of	2.84 NTU or 30% exceedance of valu						
NTU (Depth-	value at any impact station	at any impact station compared wit						
averaged)	compared with corresponding data	corresponding data from contro						
	from control station	station						
Salinity in	34.25 PSU or 9% exceedance of	34.56 PSU or 10% exceedance of valu						
PSU (Depth-	value at any impact station	at any impact station compared wit						
averaged)	compared with corresponding data	corresponding data from contro						
	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								
*Anti-scalant	5.0 mg/L	5.0 mg/L						
in mg/L								
(Depth-								
averaged)								

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#### Notes:

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

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.\*A proposal for update anti-scalant monitoring under the operation phase EM&A programme is proposed via email on 27 May 2024. EPD has agreed to update the anti-scalant monitoring detection limit, action and limit level from 0.2 mg/L to 5.0 mg/L (EPD ref. ()In EP 2/N8/E/120 Pt.14).

b) Continuous Monitoring of Effluent Quality

#### Table 2.8Derived Limit Levels for Water Quality

Parameters	Limit				
Continuous Monitoring of Effluent Quality					
Flow Rate in m³/day	216841				
Temperature in °C	Maximum 40				
Salinity	71347				
SS in mg/L	13				
рН	6-9				
Iron in mg/L	0.6				
Total residual chlorine in mg/L	0.1				
Total Inorganic Nitrogen in mg/L	2				
Total Phosphorous in mg/L	1				
Sodium Metabisulphite in mg/L	0.5				
Anti scalant in mg/L*	2.2				

\*Remark:

1. Anti-scalant water quality testing will only be conducted whenever anti-scalant dosage is adopted.

#### **MONITORING RESULTS AND OBSERVATIONS**

a) Operation phase Marine Water Quality Monitoring

- 2.23. Considering the operation phase of Tseung Kwan O Desalination Plant commenced from 1 July 2024. Marine water quality monitoring for the operation phase of Tseung Kwan O Desalination Plant was conducted in the reporting period at the thirteen monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2 and NF3). The Action and Limit Level would be referred to the approved EM&A Manual Table 2.7.
- 2.24. The marine water quality monitoring was conducted at the thirteen monitoring stations on 2, 4, 6, 8, 10, 13, 16, 18, 20, 22, 24, 27 and 30 July 2024.
- 2.25. Seven (7) of the operation phase water quality monitoring results of SS obtained had exceeded the Action Level. Forty-nine (49) of SS obtained during the reporting period had exceeded the Limit Level.



- 2.26. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 2, 4, 6, 8, 10, 13, 16, 18, 20, and 30 July 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 K**.
- 2.27. Monitoring results of 8 key parameters: Salinity, DO, turbidity, SS, pH, temperature, Total Residual Chlorine and Iron in this reporting, are summarized in **Table 2.9**, and detailed results are presented in **Appendix F**.
  - b) Operation phase Marine Water Quality Monitoring
- 2.28. Continuous Monitoring of Effluent Quality was conducted sampling point in the reporting month. No exceedance of the sampling was obtained during the reporting period had exceeded the Limit Level. The detailed results are presented in **Appendix F.**



#### Table 2.9Summary of Impact Water Quality Monitoring Results

		Parameters										
Locations		Salinity	Dissolved Oxygen (mg/L)			Turbidity	Suspended Solids	Temp.	TRC	Iron		
		(ppt)	Surface & Middle	Bottom	рН	(NTU)	(mg/L)	(°C)	(mg/L)	(mg/L)		
	Avg.	31.97	8.46	8.47	8.14	2.43	4.22	27.13	< 0.01	<0.1		
CE	Min.	31.06	7.86	7.81	7.99	1.64	2.50	26.53	< 0.01	<0.1		
	Max.	32.95	9.09	9.10	8.33	2.92	9.00	27.62	< 0.01	<0.1		
	Avg.	31.86	8.27	8.28	8.12	2.44	4.77	27.15	< 0.01	<0.1		
CF	Min.	30.34	7.75	7.72	7.94	2.12	2.50	26.62	< 0.01	<0.1		
	Max.	32.50	9.13	9.18	8.36	2.92	10.00	27.55	< 0.01	<0.1		
	Avg.	31.63	8.40	8.39	8.15	1.79	4.72	27.18	< 0.01	<0.1		
WSR1	Min.	30.55	7.76	7.73	8.00	1.42	2.50	26.67	< 0.01	<0.1		
	Max.	33.05	9.01	9.00	8.41	2.17	11.00	27.61	< 0.01	<0.1		
	Avg.	32.08	8.41	8.39	8.17	1.62	4.31	27.22	< 0.01	<0.1		
WSR2	Min.	31.06	7.71	7.63	7.96	1.30	2.50	26.78	< 0.01	<0.1		
	Max.	33.41	8.95	8.93	8.35	2.13	11.00	27.51	< 0.01	<0.1		
	Avg.	31.95	8.42	8.42	8.18	1.66	4.52	27.07	< 0.01	<0.1		
WSR3	Min.	31.08	7.94	7.93	8.02	1.30	2.50	26.67	< 0.01	<0.1		
	Max.	32.65	8.92	8.88	8.39	2.12	9.00	27.48	< 0.01	<0.1		
	Avg.	31.88	8.43	8.44	8.13	1.75	4.40	27.14	< 0.01	<0.1		
WSR4	Min.	30.68	7.76	7.84	7.98	1.37	2.50	26.61	< 0.01	<0.1		
	Max.	32.99	8.98	8.98	8.31	2.16	10.00	27.42	< 0.01	<0.1		
	Avg.	31.67	8.37	8.37	8.21	1.72	4.74	27.18	< 0.01	<0.1		
WSR16	Min.	30.30	7.75	7.74	8.03	1.30	2.50	26.64	< 0.01	<0.1		
	Max.	32.93	9.06	9.05	8.39	2.15	11.00	27.51	< 0.01	<0.1		

#### Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Operation Phase Monthly EM&A Report No.1



						Paramet	ers			
Locations		Salinity	Dissolved Oxygen (mg/L)			Turbidity	Suspended Solids	Temp.	TRC	Iron
		(ppt)	Surface & Middle	Bottom	рН	(NTU)	(mg/L)	(°C)	(mg/L)	(mg/L)
	Avg.	31.79	8.49	8.48	8.21	1.76	4.91	27.16	< 0.01	<0.1
WSR33	Min.	30.31	7.76	7.86	7.94	1.34	2.50	26.60	< 0.01	< 0.1
	Max.	32.72	9.24	9.19	8.35	2.19	11.00	27.50	< 0.01	<0.1
	Avg.	31.92	8.41	8.40	8.16	1.73	4.82	27.13	< 0.01	< 0.1
WSR36	Min.	30.60	7.63	7.63	7.94	1.28	2.50	26.44	< 0.01	< 0.1
	Max.	33.03	8.92	8.91	8.44	2.13	11.00	27.54	< 0.01	< 0.1
	Avg.	31.91	8.44	8.46	8.17	1.79	4.54	27.17	< 0.01	< 0.1
WSR37	Min.	30.56	7.76	7.73	8.01	1.43	2.50	26.68	< 0.01	<0.1
	Max.	33.09	8.87	8.87	8.32	2.11	10.00	27.72	< 0.01	<0.1
	Avg.	31.88	8.32	8.33	8.18	1.85	5.32	27.17	< 0.01	<0.1
NF1	Min.	31.04	7.70	7.69	8.05	1.41	2.50	26.43	< 0.01	< 0.1
	Max.	32.83	8.75	8.74	8.34	2.55	11.00	27.53	< 0.01	< 0.1
	Avg.	31.92	8.32	8.34	8.17	1.81	4.89	27.15	< 0.01	< 0.1
NF2	Min.	30.94	7.71	7.69	8.01	1.39	2.50	26.63	< 0.01	< 0.1
	Max.	32.65	8.90	8.98	8.35	2.14	11.00	27.71	< 0.01	< 0.1
	Avg.	31.79	8.58	8.56	8.20	1.82	5.08	27.18	< 0.01	< 0.1
NF3	Min.	30.86	7.74	7.73	7.97	1.51	2.50	26.79	< 0.01	< 0.1
	Max.	32.64	9.47	9.47	8.37	2.20	11.00	27.56	< 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.

### **3.** WASTE

3.1. 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 3.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix G**.

Table 3.1	Quantities of Waste Generated from the Con	tract during the reporting period

	Actual 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 <sup>(1)</sup>	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)
Jul 2024	60378.440	0.000	0.000	0.000	60378.440	0.000	0.000	0.000	0.000	0.000	42.820

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

3.2. No dewatered sludge was generated by the operation in the reporting period.

#### 4. LANDFILL GAS MONITORING

#### **MONITORING REQUIREMENT**

- 4.1. In accordance with Section 11 of the EM&A Manual, monthly monitoring of landfill gas is required for the first year of operation at buildings within the Project Site and 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 freshwater 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.
- 4.2. Routine monitoring is required at buildings within the Project Site and consultation zones. The monitoring frequency will be monthly for the first year of operation.
- 4.3. For 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.
- 4.4. Monitoring of oxygen, methane, carbon dioxide and barometric pressure would be performed monthly during the operation phase.

#### **MONITORING LOCATION**

4.5. The area required to be monitored for landfill gas in the reporting period is shown in **Figure 4.1, Figure 4.2 and Figure 4.3**.

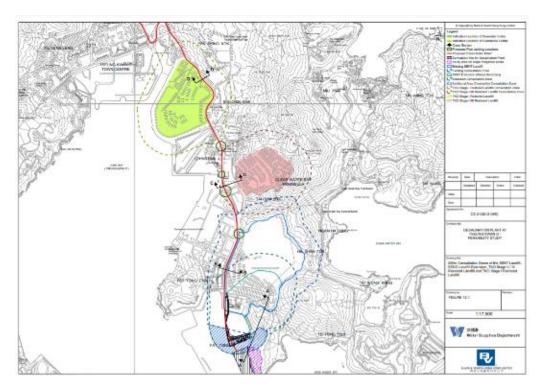


Figure 4.1 Overview of the SENT Extension Consultation Zone and the Contract Site Area 30

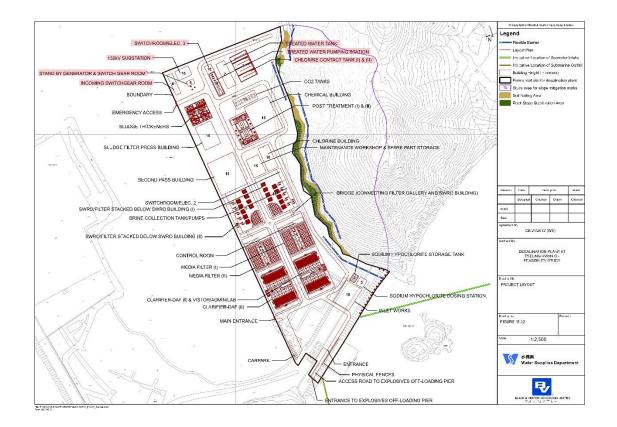
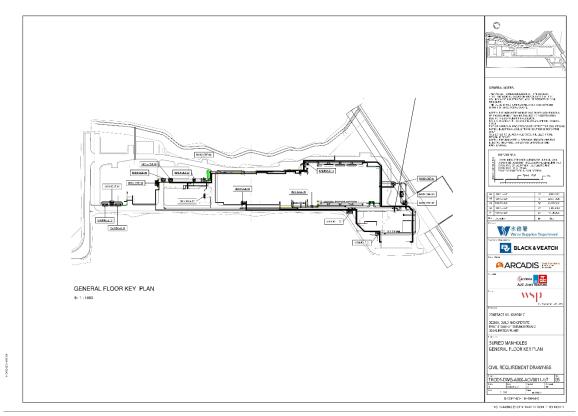


Figure 4.2 Landfill Gas Monitoring Location For Building



#### Figure 4.3 Landfill Gas Monitoring Location For Manholes/Pits

31

#### MONITORING PARAMETERS

4.6. The landfill gas monitoring parameters and the action and limit level are summarized in **Table 4.1**.

Table 4.1	Action and Limit Level for Landfill Gas Monitoring Equipment
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Parameters	Action Level	Limit Level
Oxygen (O <sub>2</sub> )	<19% O <sub>2</sub>	<19% O <sub>2</sub>
Methane (CH <sub>4</sub> )	>10% LEL	>20% LEL
Carbon Dioxide (CO <sub>2</sub> )	>0.5% CO <sub>2</sub>	>1.5% CO <sub>2</sub>

#### **MONITORING EQUIPMENT**

- 4.7. 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)

4.8. Monitoring equipment used in the reporting period are summarized in **Table 4.2**. The Landfill Gas monitoring equipment calibration certificate is presented in **Appendix E**.

Table 4.2Landfill Gas Monitoring Equipment

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

#### MONITORING RESULTS AND OBSERVATIONS

4.9. In this reporting period, monthly landfill gas monitoring was conducted on 18 and 19 July 2024. No exceedances of action level and limit level was observed. The detail of result was presented in Appendix F.

#### **5.** LANDSCAPE

#### MONITORING REQUIREMENTS

5.1. 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**

- 5.2. 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.
- 5.3. If non-compliance were found during the operation phase, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix D**.

### 6. ECOLOGY (CORAL MONITORING)

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

#### **MONITORING LOCATION**

6.2. 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 6.1** should be monitored during the operation Phase. 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 operation phase.

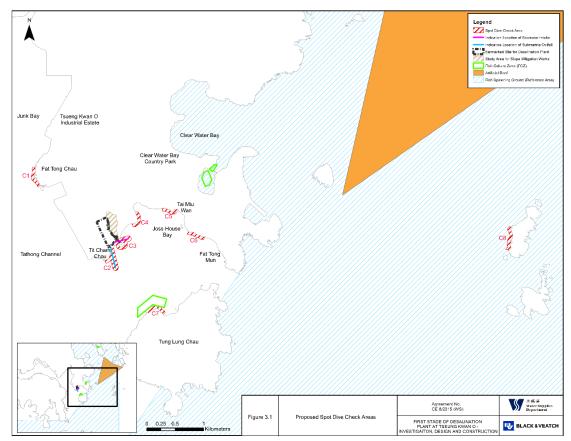


Figure 6.1 Spot Dive Check Areas Two Proposed Indirect Impact Sites (C2 and C3) and one control site (C8) during Operation Phase

#### **ACTION AND LIMIT LEVELS**

6.3. 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 6.1.

Table 6.1Action and Limit Level for Coral Monitoring Equipment

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

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

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

#### **MONITORING FREQUENCY**

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

#### **MONITORING RESULT AND OBSERVATION**

6.6. Operation phase coral monitoring works was conducted on 18 July 2024. The detail of the monitoring is presented in **Appendix H**.

#### 7. ECOLOGY (FISHERY MONITORING)

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

#### **MONITORING LOCATION**

- 7.2. 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.
- 7.3. 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).
- 7.4. 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.
- 7.5. 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.
- 7.6. The coordinates of the proposed monitoring locations are shown in **Figure 7.1**.

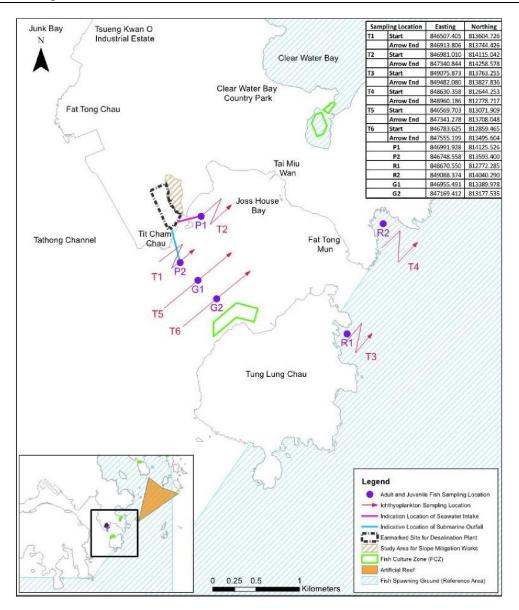


Figure 7.1 Monitoring Location of Regular Fishery Monitoring during Operation Phase

#### **MONITORING FREQUENCY**

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

#### MONITORING RESULT AND OBSERVATION

- 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 50<sup>th</sup> EM&A Monthly Report.
- 7.9. The operation phase fishery monitoring for wet season 2024 was scheduled on 24 and 31 August 2024.

### 8. SUMMARY OF EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

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

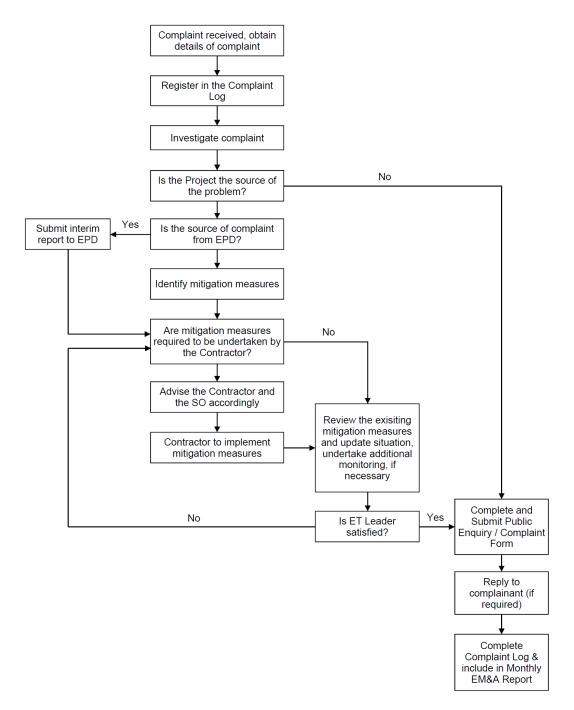


Figure 9.1 Environmental Complaint Handling Procedures

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- 8.2. 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
- 8.3. The marine water quality monitoring was conducted at the thirteen monitoring stations on 2, 4, 6, 8, 10, 13, 16, 18, 20, 22, 24, 27 and 30 July 2024. Seven (7) of SS obtained had exceeded the Action Level. Forty-nine (49) of SS obtained during the reporting period had exceeded the Limit Leve. After investigation, all exceedances were concluded unrelated to the Project.
- 8.4. Continuous Monitoring of Effluent Quality was conducted sampling point in the reporting month. No exceedance of the sampling was obtained during the reporting period had exceeded the Limit Level.
- 8.5. Operation phase coral monitoring works was conducted on 18 July 2024. There is no AL/LL exceedance during the monitoring period. The detail of the monitoring was presented in **Appendix H**.
- 8.6. 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 50<sup>th</sup> Construction Phase Monthly EM&A Report.
- 8.7. In this reporting period, monthly landfill gas monitoring was conducted on 18 and 19 July 2024. No exceedances of action level and limit level was observed.
- 8.8. No environmental complaint, notification of summons and prosecution Statistics on complaint and notification of summons and prosecution are summarized in **Appendix J**.

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#### 9. EM&A SITE INSPECTION

9.1. 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 2, 9, 16, 23 and 29 July 2024 at the site portions listed in **Table 10.1** below.

Date	Inspected Site Portion	Time
2 July 2024	TKO Area 137	14:30 - 15:30
9 July 2024	TKO Area 137	14:30 - 15:30
16 July 2024	TKO Area 137	14:30 - 15:30
23 July 2024	TKO Area 137	14:30 - 15:30

Table 10.1 Julillaries of Site Inspection Record	<b>Table 10.1</b>	Summaries of Site Inspection Record
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- 9.2. Joint site inspections with IEC were carried out on 29 July 2024.
- 9.3. 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	<b>Environmental Observations</b>	Follow-up Status
2 July 2024	No major environmental deficiency was observed.	N/A
9 July 2024	No major environmental deficiency was observed.	N/A
16 July 2024	No major environmental deficiency was observed.	N/A
23 July 2024	No major environmental deficiency was observed.	N/A
29 July 2024	No major environmental deficiency was observed.	N/A

Table 10.2Site Observations

9.4. 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 B**. Site inspection proforma of the reporting period is provided in **Appendix I**.

#### **10.** FUTURE KEY ISSUES

- 10.1. Works to be undertaken in the next reporting month are:
  - Production of water
- 10.2. The major environmental impacts brought by the above operation works include:
  - Effluent of the water production work and system cleaning works;
  - Waste generation from the operation activities
- 10.3. The key environmental mitigation measures implemented for the Contract in this reporting period associated with the above operation works include:
  - Regularly monitoring of the effluent
  - Sorting and storage of general refuse and operation waste

#### **11. CONCLUSIONS AND RECOMMENDATIONS**

- 11.1. This is the 1<sup>st</sup> Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from [Date] to [Date], in accordance with the EM&A Manual and the requirement under FEP-01/503/2015/B.
- 11.2. The EM&A works for operation phase water quality were conducted during the reporting period in accordance with the EM&A Manual. Seven (7) of SS obtained had exceeded the Action Level. Forty-nine (49) of SS obtained during the reporting period had exceeded the Limit Level. After investigation, all exceedances were concluded unrelated to the Project.
- 11.3. Continuous Monitoring of Effluent Quality was conducted sampling point in the reporting month. No exceedance of the sampling was obtained during the reporting period had exceeded the Limit Level.
- 11.4. Operation phase coral monitoring works was conducted on 18 July 2024. There is no AL/LL exceedance during the monitoring period.
- 11.5. 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.
- 11.6. In this reporting period, monthly landfill gas monitoring was conducted on 18 and 19 July 2024. No exceedances of action level and limit level was observed.
- 11.7. 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.
- 11.8. No environmental complaint, notification of summons and prosecution was received in the reporting period.
- 11.9. The ET will keep track on the operation works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

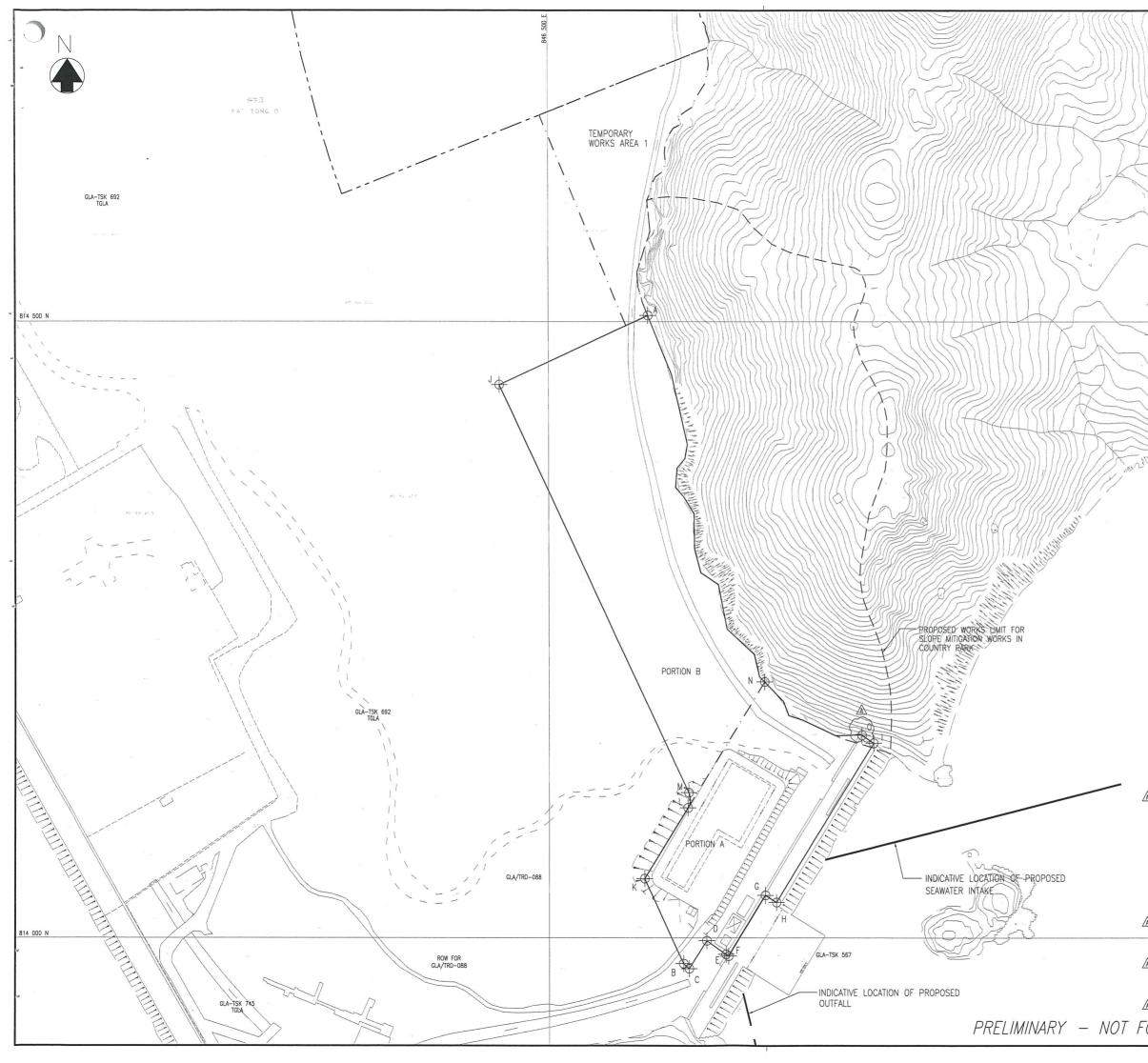
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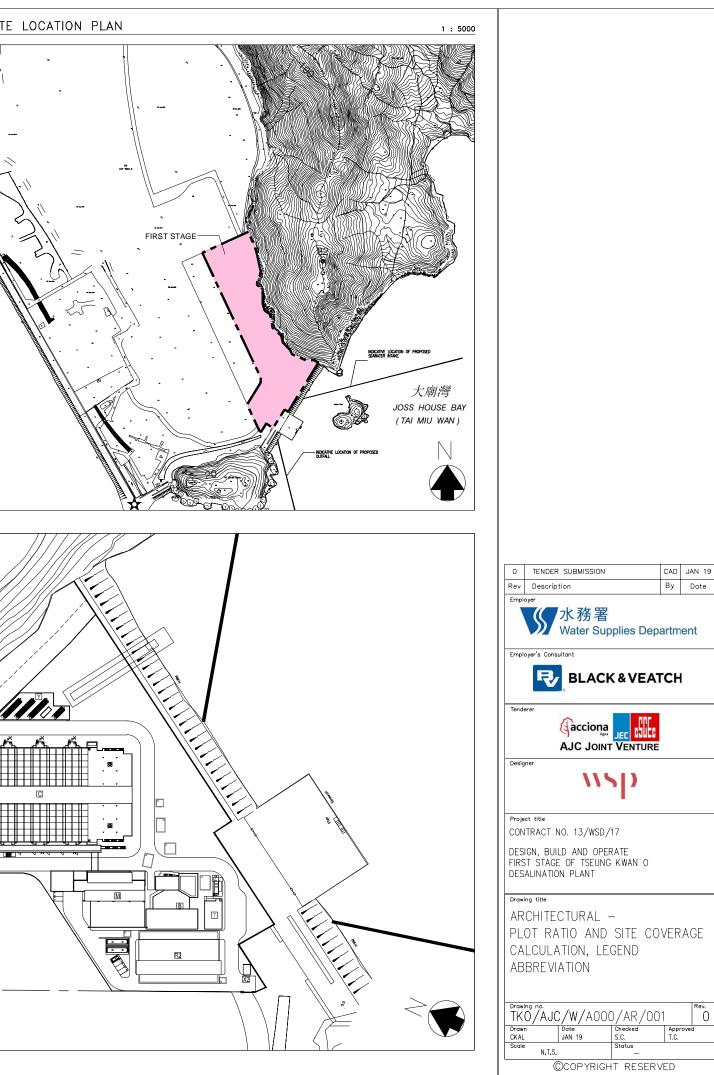
Appendix A

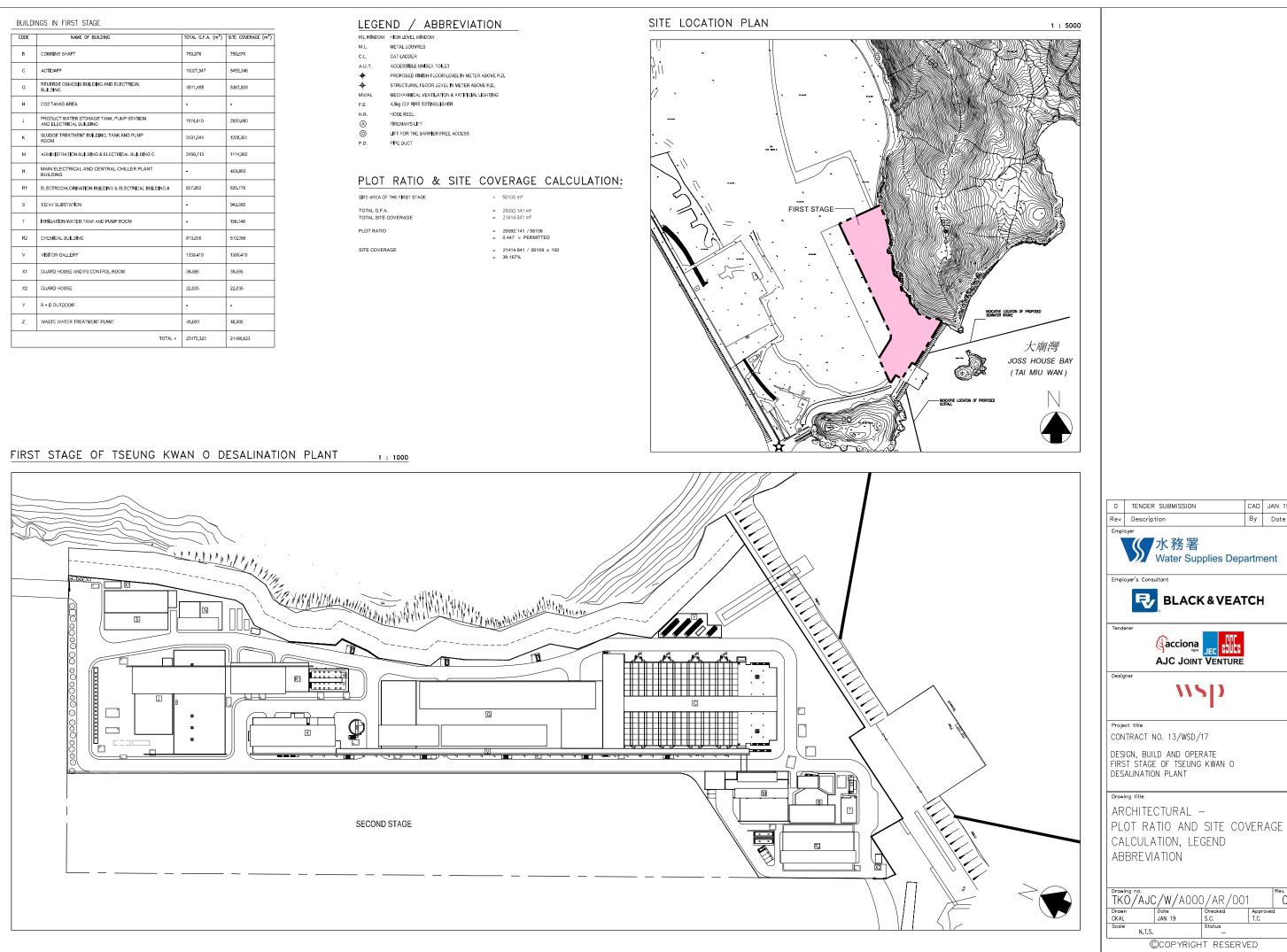
## Overview of Desalination Plant in Tseung Kwan O



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+	_	K			HANDED OVER AT +6 MPD WITH A TOLERANCE OF ±500mm.
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					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
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					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
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		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
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		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 <sup>2</sup> )	SITE COVERAGE (m <sup>2</sup> )
в	COMBINE SHAFT	759.876	759.876
с	ACTIDAFF	10027.547	5455 <u>3</u> 46
G	REVERSE OSMOSIS BUILDING AND ELECTRICAL BUILDING	4511.455	5367.935
н	CO2 TANKS AREA	-	-
J	PRODUCT WATER STORAGE TANK, PUMP STATION AND ELECTRICAL BUILDING	1974.610	2933.980
к	SLUDGE TREATMENT BUILDING, TANK AND PUMP ROOM	2531.044	1228.361
м	ADMINIŞTRATION BUİLDING & ELECTRICAL BUİLDING C	2459.713	1114,062
N	MAIN ELECTRICAL AND CENTRAL CHILLER PLANT BUILDING	-	459,893
R1	ELECTROCHLORINATION BUILDING & ELECTRICAL BUILDING A	657.992	825.776
s	132 KV SUBSTATION	-	943.560
Т	IRRIGATION WATER TANK AND PUMP ROOM	-	156.148
R2	CHEMICAL BUILDING	813.056	813.056
v	VISITOR GALLERY	1330.410	1330.410
X1	GUARD HOUSE AND FS CONTROL ROOM	39.585	39.585
X2	GUARD HOUSE	22.035	22.035
Y	R + D OUTDOOR	-	-
z	WASTE WATER TREATMENT PLANT	48.000	48.000
	TOTAL =	25175.323	21498.023









Appendix B

## Summary of Implementation Status of Environmental Mitigation



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Imple	emer Stag	ntation e	Implementation status	Relevant Legislation & Guidelines
		main concerns to address		D	С	0		
Air Qualit			•					
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
Water Qua	ality			<u> </u>				
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	-
Waste Ma	nagement							
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	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	Waste Disposal (Chemical Waste)
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	(General) Regulation; Code of Practice on the Packaging,
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	Handling and Storage of Chemical Wastes

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



EIA	Recommended Environmental Protection Measures/	Objectives of the	Implementation Agent	Impl	emer	ntation	Implementation	<b>Relevant Legislation</b>
Reference	Mitigation Measures	recommended measures &			Stag		status	& Guidelines
		main concerns to address		D	С	0		
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	<b>√</b>	Implemented	
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	
S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	<b>√</b>	Implemented	
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/ WSD		~	•	Implemented	
S8.5	Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	
S8.5	General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All area/ During construction/ During operation	Contractor(s)/ WSD		~	•	Implemented after reminder	
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.
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	-
Landscape								
S11.10 & 11.11	The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	~	•	<b>✓</b>	Implemented	-

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



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Imp	lemer Stag	ntation e	Implementation status	Relevant Legislation & Guidelines
		main concerns to address		D	С	0		
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.
\$11.10 & 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)	•	•	•	Implemented	
S11.10 & 11.11	Dredging works for the installation of intake structures and outfall diffusers should be minimized to avoid or reduce any potential environmental impacts to as low as reasonably practicable (ALARP). The intake and outfall structures (e.g. intake openings and diffuser heads) will be prefabricated and transferred to site for	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	•	~	Implemented	



EIA	Recommended Environmental Protection Measures/	Objectives of the	Implementation Agent	Imp	lemer	ntation	Implementation	Relevant Legislation
Reference	Mitigation Measures	recommended measures &			Stag		status	& Guidelines
		main concerns to address		D	С	0		
	installation. (MM7)							
S11.10 &	All night-time lighting will be reduced to a practical minimum	All area/ Detailed design/	WSD/ Contractor(s)	<b>√</b>	✓	~	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						
Landfill Ga	directional. (MM8)							
S12.7	During all works, safety procedures should be implemented to	All area (Datailed design (	Contractor(c)		<u> </u>		Implomented	
512.7	minimize the risks of fires and explosions, asphyxiation of workers	All area/ Detailed design/	Contractor(s)	•	•	•	Implemented	-
	and toxicity effects resulting from contact with contaminated soil	During construction/operation						
	and groundwater.							
S12.7	During trenching and excavation as well as creation of confined	All area/ Detailed design/	Contractor(s)	✓	✓	✓	Implemented	
512.7	spaces at near to or below ground level, precautions should be	During construction/operation	contractor (3)				Implementeu	
	clearly laid down and rigidly Gas detection equipment and	During construction, operation						
	appropriate breathing apparatus should be available and used							
	when entering confined spaces or trenches deeper than 1 meter.							
S12.7	The Contractor should make the workers are aware of potential	All area/ Detailed design/	Contractor(s)	✓	✓	✓	Implemented	
	hazards of working in confined spaces (any chamber, manhole or	During construction/operation					-	
	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							
a10 <b>-</b>	compliance with the above regulations.							
S12.7	Safety officers, specifically trained with regard to landfill gas and	All area/ Detailed design/	Contractor(s)	✓	✓	✓	Implemented	
	leachate related hazards and the appropriate actions to take in	During construction/operation						
	adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade.							
				ļ.,	ļ ,			
S12.7	All personnel who work on site and all visitors to the site should be	All area/ Detailed design/	Contractor(s)	<ul><li>✓</li></ul>	✓	✓	Implemented	
	made aware of the possibility of ignition of gas in the vicinity of the	During construction/operation						
	works, the possible presence of contaminated water and the need							
	to avoid physical contact with it.			, I	Ļ			
S12.7	Monitoring for landfill gas should be undertaken in all excavations,	All area/ Detailed design/	Contractor(s)	<ul><li>✓</li></ul>	✓	✓	Implemented	
	manholes, chambers (particularly during pipe jacking) and any	During construction/operation						
	confined spaces through the use of an intrinsically safe portable							
	instrument, appropriately calibrated and capable of measuring the							
6127	concentrations of methane. carbon dioxide and oxygen.		Carta ()	✓	✓	✓	Incombra de la	
S12.7	Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the	All area/ Detailed design/	Contractor(s)			•	Implemented	
	Safety Officer, or by an appropriately qualified person. All	During construction/operation						
	measurements should be recorded and documented.							
	measurements should be recorded and documented.			1	L			

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



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EIA	Recommended Environmental Protection Measures/	Objectives of the	Implementation Agent	Imp		ntation	Implementation	Relevant Legislation
Reference	Mitigation Measures	recommended measures & main concerns to address		D	Stag C	e O	status	& Guidelines
S12.7	Proceed drilling with adequate care and precautions against the potential hazards which may be encountered.	All area/ Detailed design/ During construction/operation	Contractor(s)	✓ ✓	✓ ✓	✓	Implemented	
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)	<b>~</b>	-	~	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	
\$12.7	The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.	All area/ Detailed design/ During construction/operation	Contractor(s)	•	~	~	Implemented	
S12.7	All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site.	All area/ Detailed design/ During construction/operation	Contractor(s)		•	~	Implemented	

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





## Appendix C

## Impact Monitoring Schedule

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

Sun	Mon	Tue	Wed	Thu	Fei	Sat
Sui		2	3	4	Fri 5	6
		-	-			-
7	8	9	10	11	12	13
-	0	, ,	10		**	10
14	15	16	17	18	19	20
				Landfill Gas Monitoring	Landfill Gas Monitoring	
				Landhii Gas Monitoring	Landfill Gas Monitoring	
21	22	23	24	25	26	27
28	29	30				
28	29	30				
28	29	30				
28	29	30				
28	29	30				
28	29	30				
28	29	30				
28	29	39				
28	29	30				
28	29	30				
28	29	30				
28	29	30				
28	29	20				
	29	30				
Remarks		30				
		30				
Remarks		39				
Remarks		30				
Remarks		30				
Remarks		30				
Remarks		30				

#### Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Tentative Landfill Gas Monitoring Schedule (August 2024)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
				1		
				1		
				1		
				1		
				1		
				1		
11	12	13	14	15	16	17
11	12	13	14	15	10	1/
				Landfill Gas Monitoring	Landfill Gas Monitoring	
				5	5	
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
18	19	20	21	22	23	24
	19	29	21	22	23	24
	19	29	21	22	23	24
18	19	20	21	22	23	24
					23	31
25						
25						
25	26					
25	26					
25 Remarks:	26					
25 Remarks:	26					
25 Remarks:	26					
25 Remarks:	26					
25	26					
25	26					
25	26					

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

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood/08:00 - 11:16		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb.09.23 - 12:53		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb:10.51 - 14.21
7	8	9	10	ш	12	13
	Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood.08.00 - 09:57		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood 08:00 - 11:12			Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:00 - 11:22
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-ebt-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-ebt-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-Ebb: 11:04-14:34		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR516, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-flood: 08:00 - 10:39			Impuet Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Midi-ebb: 08:42 - 12:12
28	29	30				
		Impact Water Quilty monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37, NF1, NF2, NF3 Monitoring Period: Mid-ebb: 08:00 - 11:25				
Note: - Due to safety concern of vessel transportation earlier than	pH, Turbidity, Salinity, Suspended Solids, Iron, Total Resid 0700, Water Quality Monitoring would start at 0800. VSR36→VSR33→Remaining stations and Mid+Itood: CF→					

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

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Suit	Mon	Tue	weu	1	2	2
					*	5
				Impact Water Quality monitoring for		Impact Water Quality monitoring for
				CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33,		CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR3
				WSR36, WSR37, NF1, NF2, NF3		WSR36, WSR37, NF1, NF2, NF3
				Monitoring Period:		Monitoring Period:
				Mid-ebb:08:33 - 12:03		Mid-ebb:09:58 - 13:28
4	6	6	7	0	0	10
4	5	8	1	8	2	10
	Impact Water Quality monitoring for		Impact Water Quality monitoring for			Impact Water Quality monitoring for
	CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33,		CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33,			CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR3
	WSR36, WSR37, NF1, NF2, NF3		WSR36, WSR37, NF1, NF2, NF3			WSR36, WSR37, NF1, NF2, NF3
	Monitoring Period:		Monitoring Period:			Monitoring Period:
	Mid-ebb:11:16 - 14:46		Mid-flood:08:00 - 10:26			Mid-flood: 08:00 - 10:57
	Mid-C00.11.10 - 14.40		Mid-fi00d.08.00 - 10.20			Mid-fiood. 08:00 - 10:57
11	12	13	14	15	16	17
		Impact Water Quality monitoring for		Impact Water Quality monitoring for		Impact Water Quality monitoring for
		CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33,		CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33,		CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR3
		WSR36, WSR37, NF1, NF2, NF3		WSR36, WSR37, NF1, NF2, NF3		WSR36, WSR37, NF1, NF2, NF3
		10100, 10107, 111, 1112, 1110		(1000), (1000), (111, 1112, 1115		101000, 10107,1111,1112,1115
		Monitoring Period:		Monitoring Period:		Monitoring Period:
		Mid-ebb:08:00 - 9:15		Mid-ebb:08:00 - 10:41		Mid-ebb:08:30 - 12:00
18	19	20	21	22	23	24
	Impact Water Quality monitoring for		Impact Water Quality monitoring for			Impact Water Quality monitoring for
	CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33,		CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33,			CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR3
	WSR36, WSR37, NF1, NF2, NF3		WSR36, WSR37, NF1, NF2, NF3			WSR36, WSR37, NF1, NF2, NF3
	Monitoring Period:		Monitoring Period:			Monitoring Period:
	Mid-ebb: 10:00-13:30		Mid-flood: 08:00 - 09:42			Mid-flood: 08:00 - 11:06
25	26	27	28	29	30	31
		Impact Water Quality monitoring for		Impact Water Quality monitoring for		Impact Water Quality monitoring for
		CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33,		CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33,		CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR3
		USR36, WSR37, NF1, NF2, NF3		WSR36, WSR37, NF1, NF2, NF3		WSR36, WSR37, NF1, NF2, NF3
		w5K50, w5K57, NF1, NF2, NF5		w5R50, w5R57, NF1, NF2, NF3		w5K50, w5K57, NF1, NF2, NF5
		Monitoring Period:		Monitoring Period:		Monitoring Period:
		Mid-ebb: 08:00 - 09:46		Mid-ebb: 08:00 - 11:04		Mid-ebb: 09:01 - 12:31
Remarks:						
	re, pH, Turbidity, Salinity, Suspended Solids, Iron, Total Resi	tual Chlorine				
biasirea oxygen, renpera						
Note:						
<ul> <li>Due to safety concern of vessel transportation earlier the</li> </ul>	0700 Weter Oscility Meniterine would start at 0800					

- Due to safety concern of vessel transportation earlier than 0700, Water Quality Monitoring would start at 0800. Prioritized routing: Mid-ebb: CE→WSR16→WSR37→WSR36→WSR33→Remaining stations and Mid-flood: CF→WSR1→WSR3→WSR4→Remaining stations

		Ecological Monito				
Mon	Tue	Wed	Thu	Fri	Sat	
1	2	3	4	5	6	
8	9	10	11	12	13	
15	16	17	18	19	20	
		Regular	Operation			
		Phase Coral M	lonitoring			
		r liase coi ai w	lointoi ing			
 22	23	24	25	26	27	
29	30	31				

N 5	Moa 5	Tue         Wed           -         -           -         -           6         7           -         -           13         14		Thu	2	Sat3
S	<b>5</b>	6 7	2	8	9	3
S	<b>5</b>	6 7		8	9	10
5 1	5	6 7		8	9	10
5 1	5	6 7 13 14		8	9	10
S	5	6 7 7		8	9	10
S	12	6 7		8	9	10
I	12	13 14				
I	12	13 14				
1	12	13 14				
1	12	13 14				
1	12	13 14				
		10 11	1	15	16	17
1	19	20 21		22	23	24
		Regular Operation				Operation Phas
		Phase Coral Monitoring				Fishery Monitori
	~			m		
2	26	27 28		29	30	31
						Operation Phas
						Fishery Monit





## Appendix D

## Event / Action Plan



#### Table D1Event and Action Plan for Water Quality Monitoring

Event	Action			
	ET	IEC	Contractor(s)	ER
Action Level being exceeded by one sampling day	<ol> <li>Repeat in situ measurement on the next day of exceedance to confirm findings;</li> <li>Check monitoring data, plant, equipment and Contractor(s)'s working methods;</li> <li>Identify source(s) of impact and record in notification of exceedance;</li> <li>Inform IEC, Contractor(s) and ER.</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor(s)'s working methods;</li> <li>Inform EPD.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Check plant and equipment and rectify unacceptable practice</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing.</li> </ol>
Action Level being exceeded by two or more consecutive sampling days	<ol> <li>Repeat <i>in situ</i> measurement on the next day of exceedance to confirm findings;</li> <li>Check monitoring data, plant, equipment and Contractor(s)'s working methods;</li> <li>Identify source(s) of impact and record in notification of exceedance;</li> <li>Inform IEC, Contractor(s) and ER;</li> <li>Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor(s)'s working methods;</li> <li>Inform EPD;</li> <li>Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Check plant and equipment and rectify unacceptable practice;</li> <li>Consider changes of working methods;</li> <li>Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days;</li> <li>Implement the agreed mitigation measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented.</li> <li>Ensure additional mitigation measures are properlimplemented.</li> </ol>
Limit Level being exceeded by one sampling day	<ol> <li>Repeat <i>in situ</i> measurement on the next day of exceedance to confirm findings;</li> <li>Check monitoring data, plant, equipment and Contractor(s)'s working methods;</li> <li>Identify source(s) of impact and record in notification of exceedance;</li> <li>Inform IEC, Contractor(s) and ER;</li> <li>Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor(s)'s working methods;</li> <li>Inform EPD;</li> <li>Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Check plant and equipment and rectify unacceptable practice;</li> <li>Critically review the need to change working methods;</li> <li>Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days;</li> <li>Implement the agreed mitigation measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented.</li> <li>Ensure additional mitigation measures are properl implemented.</li> <li>Request Contractor(s) to critically review the working methods.</li> </ol>
Limit Level being exceeded by two or more consecutive sampling days	<ol> <li>Repeat <i>in situ</i> measurement on the next day of exceedance to confirm findings;</li> <li>Check monitoring data, plant, equipment and Contractor(s)'s working methods;</li> <li>Identify source(s) of impact and record in notification of exceedance;</li> <li>Inform IEC, Contractor(s) and ER;</li> <li>Discuss with IEC and Contractor(s) on additional mitigation measures and ensure that they are implemented</li> </ol>	<ol> <li>Check monitoring data submitted by ET and Contractor(s)'s working methods;</li> <li>Inform EPD;</li> <li>Discuss with ET and Contractor(s) on additional mitigation measures and advise ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Check plant and equipment and rectify unacceptable practice;</li> <li>Critically review the need to change working methods;</li> <li>Discuss with ET and IEC on additional mitigation measures and propose them to ER within 3 working days;</li> <li>Implement the agreed mitigation measures.</li> <li>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.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Discuss with the IEC on the proposed additional mitigation measures and agree on the mitigation measures to be implemented.</li> <li>Ensure additional mitigation measures are properl implemented.</li> <li>Request Contractor(s) to critically review the working methods;</li> <li>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 Lim Level.</li> </ol>

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 D2Event and Action Plan for Ecology during Operation Phase

Event				Act	tion			
Lvent	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 D3Event and Action Plan for Operation Phase Coral Monitoring

Event		Acti	on	
Event	ET Leader	IEC	SOR **	Contractor
Action Level Exceedance	<ol> <li>Check monitoring data</li> <li>Inform the IEC, SOR and Contractor of the findings;</li> <li>Increase the monitoring to at least once a month to confirm findings;</li> <li>Propose mitigation measures for consideration</li> </ol>	<ol> <li>Discuss monitoring with the ET and the Contractor;</li> <li>Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SOR accordingly.</li> </ol>	<ol> <li>Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET;</li> <li>Make agreement on the measures to be implemented.</li> </ol>	<ol> <li>Inform the SOR and confirm notification of the non- compliance in writing;</li> <li>Discuss with the ET and the IEC and propose measures to the IEC and the SOR;</li> <li>Implement the agreed measures.</li> </ol>
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.	<ol> <li>Discuss monitoring with the ET and the Contractor;</li> <li>Review proposals for additional monitoring and any other measures submitted by the Contractor and advise the SOR accordingly.</li> </ol>	<ol> <li>Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET;</li> <li>Make agreement on the measures to be implemented.</li> </ol>	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



#### Table D4Event and Action Plan for Operation Phase LFG Hazard

Parameters	Level	Action
Oxygen (O2)	Action Level < 19% O <sub>2</sub>	Ventilate trench/void to restore O <sub>2</sub> to > 19%
	Limit Level < 19% O <sub>2</sub>	Stop works
		Evacuate personnel/prohibit entry
		Increase ventilation to restore O <sub>2</sub> to > 19%
Methane (CH4)	Action Level >10% LEL	Post "No Smoking" signs
		Prohibit hot works
		Increase ventilation to restore CH4 to <10% LEL
	Limit Level >20% LEL	Stop works
		Evacuate personnel/prohibit entry
		Increase ventilation to restore CH4 to<10% LEL
Carbon Dioxide (CO <sub>2</sub> )	Action Level >0.5% CO <sub>2</sub>	Ventilate to restore CO <sub>2</sub> to < 0.5%
	Limit Level >1.5% CO <sub>2</sub>	Stop works
		Evacuate personnel / prohibit entry
		Increase ventilation to restore CO <sub>2</sub> to <0.5%





Appendix E

# WaterQualityMonitoringEquipmentandLandfillGasEquipmentCalibrationCertification



Test Report No.	:R-BD060107
Date of Issue	:03 July 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
Serial Number :	15M101091
Date of Received :	26 June 2024
Date of Calibration :	03 July 2024
Date of Next Calibration :	02 October 2024
Request No. :	D-BD060107

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter		Reference Method
pH value		APHA 21e 4500-H <sup>+</sup> 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	4.10	0.10	Satisfactory
7.42	7.40	-0.02	Satisfactory
10.01	9.90	-0.11	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
20.0	19.0	-1.0	Satisfactory
27.5	26.8	-0.7	Satisfactory
36.0	35.5	-0.5	Satisfactory

Tolerance of Temperature should be less than  $\pm\,2.0$  (  $^{\circ}C$  )

#### (3) Salinity

Expected Reading (g/L)	Display Reading ( g/L )	Tolerance ( % )	Result
10	9.90	-1.00	Satisfactory
20	20.24	1.20	Satisfactory
30	30.62	2.07	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manage



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#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.55	8.34	-0.21	Satisfactory
5.80	5.60	-0.20	Satisfactory
3.40	3.40	0.00	Satisfactory
0.43	0.42	-0.01	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  (mg/L)

#### (5) Turbidity

Expected Reading (NTU)	Display Reading ( NTU )	Tolerance ( % )	Result
0	2.58		
10	9.62	-3.8	Satisfactory
20	19.67	-1.6	Satisfactory
100	104.41	4.4	Satisfactory
800	778.88	-2.6	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 ----



Test Report No.	: R-BD070022
Date of Issue	: 15 July 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
Serial Number :	22C106561
Date of Received :	11 July 2024
Date of Calibration :	12 July 2024
Date of Next Calibration :	11 October 2024
Request No. :	D-BD070022

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Test Parameter</u>	Reference Method
pH value	APHA 21e 4500-H <sup>+</sup> 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	7.46	0.04	Satisfactory
10.01	10.05	0.04	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( $^{\circ}\mathrm{C}$ )	Tolerance	Result
16.0	14.7	-1.3	Satisfactory
25.5	24.1	-1.4	Satisfactory
32.0	30.8	-1.2	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	10.01	0.10	Satisfactory
20	20.21	1.05	Satisfactory
30	30.90	3.00	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manager

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#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.50	8.56	0.06	Satisfactory
7.11	6.66	-0.45	Satisfactory
4.31	4.13	-0.18	Satisfactory
0.69	0.30	-0.39	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm \mbox{ 0.5 ( mg/L )}$ 

#### (5) Turbidity

Expected Reading (NTU)	Display Reading ( NTU )	Tolerance ( % )	Result
0	-0.12		
10	9.88	-1.2	Satisfactory
20	19.42	-2.9	Satisfactory
100	97.08	-2.9	Satisfactory
800	743.03	-7.1	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:	HK2452185
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:	09-Jul-2024
		DATE OF ISSUE:	18-Jul-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 Meter
Service Nature:	Performance Check
Scope:	Free Chlorine and Total Residual Chlorine
Brand Name/ Model No.:	[LOVIBOND]/ [MD200]
Serial No./ Equipment No.:	[19/79699]/ [N/A]
Date of Calibration:	09-Jul-2024

Cha Aling

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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09-October-2024

WORK ORDER: HK2452185 SUB-BATCH: 0 DATE OF ISSUE: 18-Jul-2024 CLIENT: AURECON HONG KONG LIMITED Equipment Type: Chlorine Meter Brand Name/ [LOVIBOND]/[MD200] Model No .: Serial No./ [19/79699]/[N/A] Equipment No.: Date of Next Calibration: Date of Calibration: 09-Jul-2024

#### PARAMETERS:

**Free Chlorine** 

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (%)
0.2	0.23	+5.0
1.0	1.01	+1.0
2.0	1.97	-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	2.00	+0.0
1950A274	Tolerance Limit (%)	±10.0

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

Cha Ain

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



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:	TOBY WAN	WORK ORDER:	HK2425655
CLIENT:	AURECON HONG KONG LIMITED		
ADDRESS:	UNIT 1608, 16/F, TOWER B,	SUB-BATCH:	0
	MANULIFE FINANCIAL CENTRE,	LABORATORY:	HONG KONG
	223-231 WAI YIP STREET,	DATE RECEIVED:	26-Jun-2024
	KWUN TONG, HONG KONG	DATE OF ISSUE:	08-Jul-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:	pH meter		
Service Nature:	Performance Check		
Scope:	pH Value		
Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	[Xylem]/ [SensoLyt®700IQ SW, SensoLyt® SEA] [23462251]/ [N/A] 26-June-2024		

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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**WORK ORDER:** HK2425655

SUB-BATCH:	0
DATE OF ISSUE:	08-Jul-2024
CLIENT:	AURECON HONG KONG LIMITED
Equipment Type:	pH meter

[Xylem]/[SensoLyt®700IQ SW, SensoLyt® SEA]

[23462251]/ [N/A]

26-June-2024

Date of Next Calibration:

26-September-2024

#### **PARAMETERS:**

Equipment No.:

Date of Calibration:

Brand Name/

Model No.: Serial No./

#### pH Value

#### Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.04	+0.04
7.0	6.90	-0.10
10.0	9.67	-0.33
	Tolerance Limit (pH unit)	±0.20

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

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

CONTACT:	TOBY WAN	WORK ORDER:	HK2425655
CLIENT:	AURECON HONG KONG LIMITED		
ADDRESS:	UNIT 1608, 16/F, TOWER B,	SUB-BATCH:	1
	MANULIFE FINANCIAL CENTRE,	LABORATORY:	HONG KONG
	223-231 WAI YIP STREET,	DATE RECEIVED:	26-Jun-2024
	KWUN TONG, HONG KONG	DATE OF ISSUE:	08-Jul-2024

#### **GENERAL COMMENTS**

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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:Salinity MeterService Nature:Performance CheckScope:SalinityBrand Name/ Model No.:[Xylem]/ [TetraCon® 700 IQ SW]Serial No./ Equipment No.:[24141069]/ [N/A]Date of Calibration:26-June-2024

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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WORK ORDER:	HK2425655		
SUB-BATCH: DATE OF ISSUE: CLIENT:	1 08-Jul-2024 AURECON HONG KONG LIMITE	ED	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.:	Salinity Meter [Xylem]/ [TetraCon® 700 IQ SW] [24141069]/ [N/A]		
Date of Calibration:	26-June-2024	Date of Next Calibration:	26-September-2024

#### **PARAMETERS:**

#### Salinity

#### Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
20	20.2	+1.0
	Tolerance Limit (%)	±10.0

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

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

CONTACT: CLIENT:	TOBY WAN AURECON HONG KONG LIMITED	WORK ORDER:	HK2425655
ADDRESS:	UNIT 1608, 16/F, TOWER B,	SUB-BATCH:	2
	MANULIFE FINANCIAL CENTRE,	LABORATORY:	HONG KONG
	223-231 WAI YIP STREET,	DATE RECEIVED:	26-Jun-2024
	KWUN TONG, HONG KONG	DATE OF ISSUE:	08-Jul-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:Dissolved Oxygen MeterService Nature:Performance CheckScope:Dissolved Oxygen

Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration: [Xylem]/ [FDO® 700 IQ SW] [24131693]/ [N/A] 26-June-2024

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Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

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WORK ORDER:	HK2425655		
SUB-BATCH: DATE OF ISSUE: CLIENT:	2 08-Jul-2024 AURECON HONG KONG LIMITE	Ð	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	Dissolved Oxygen Meter [Xylem]/ [FDO® 700 IQ SW] [24131693]/ [N/A] 26-June-2024	Date of Next Calibration:	26-September-2024

#### **PARAMETERS:**

#### Dissolved Oxygen Method Ref: APHA (23rd edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
7.45	7.54	+0.09
	Tolerance Limit (mg/L)	±0.20

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



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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

CONTACT:	TOBY WAN	WORK ORDER:	HK2425655
CLIENT:	AURECON HONG KONG LIMITED		
ADDRESS:	UNIT 1608, 16/F, TOWER B,	SUB-BATCH:	3
	MANULIFE FINANCIAL CENTRE,	LABORATORY:	HONG KONG
	223-231 WAI YIP STREET,	DATE RECEIVED:	26-Jun-2024
	KWUN TONG, HONG KONG	DATE OF ISSUE:	08-Jul-2024

#### **GENERAL COMMENTS**

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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:TurbidimeterService Nature:Performance CheckScope:TurbidityBrand Name/ Model No.:[Xylem]/ [VisoTurb® 700 IQ SW]Serial No./ Equipment No.:[24120626]/ [N/A]Date of Calibration:26-June-2024

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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**



WORK ORDER:	HK2425655		
SUB-BATCH: DATE OF ISSUE: CLIENT:	3 08-Jul-2024 AURECON HONG KONG LIMITE	ED	
Equipment Type: Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	Turbidimeter [Xylem]/ [VisoTurb® 700 IQ SW] [24120626]/ [N/A] 26-June-2024	Date of Next Calibration:	26-September-2024

#### **PARAMETERS:**

#### Turbidity

#### Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
7.73	8.00	+3.5
	Tolerance Limit (%)	±10.0

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

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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

CONTACT:	TOBY WAN	WORK ORDER:	HK2425655
CLIENT:	AURECON HONG KONG LIMITED		
ADDRESS:	UNIT 1608, 16/F, TOWER B,	SUB-BATCH:	4
	MANULIFE FINANCIAL CENTRE,	LABORATORY:	HONG KONG
	223-231 WAI YIP STREET,	DATE RECEIVED:	26-Jun-2024
	KWUN TONG, HONG KONG	DATE OF ISSUE:	08-Jul-2024

#### **GENERAL COMMENTS**

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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:	Thermometer		
Service Nature:	Performance Check		
Scope:	Temperature		
Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	[Xylem]/ [TetraCon® 700IQ SW, SensoLyt®700IQ SW] [23462251]/ [N/A] 26-June-2024		

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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

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WORK ORDER:	HK2425655		(ALS
SUB-BATCH: DATE OF ISSUE: CLIENT:	4 08-Jul-2024 AURECON HONG KONG LIMI	TED	
Equipment Type:	Thermometer		
Brand Name/ Model No.:	[Xylem]/ [TetraCon® 700IQ SW	/, SensoLyt®700IQ SW]	
Serial No./ Equipment No.:	[23462251]/ [N/A]		
Date of Calibration:	26-June-2024	Date of Next Calibration:	26-September-2024

#### PARAMETERS:

#### Temperature

#### Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)		
28.1	27.7	-0.4		
	Tolerance Limit (°C)	±2.0		

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

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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

CONTACT:	TOBY WAN	WORK ORDER:	HK2425963
CLIENT:	AURECON HONG KONG LIMITED		
ADDRESS:	UNIT 1608, 16/F, TOWER B,	SUB-BATCH:	0
	MANULIFE FINANCIAL CENTRE,	LABORATORY:	HONG KONG
	223-231 WAI YIP STREET,	DATE RECEIVED:	28-Jun-2024
	KWUN TONG, HONG KONG	DATE OF ISSUE:	10-Jul-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	d name, Model No., Serial No. and Equipment No.) is provided by client.
Equipment Type:	pH meter
Service Nature:	Performance Check
Scope:	pH Value
Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	[Xylem]/ [SensoLyt®700IQ SW, SensoLyt® SEA] [23462251]/ [N/A] 28-June-2024

Ma Ain

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental

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#### **REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION**

(ALS)

WORK ORDER: HK2425963

SUB-BATCH: DATE OF ISSUE: CLIENT:	0 10-Jul-2024 AURECON HONG KONG LIMITED
Equipment Type: Brand Name/ Model No.:	pH meter [Xylem]/ [SensoLyt®700IQ SW, SensoLyt® SEA]
Serial No./	[23462251]/[N/A]

[23462251]/ [N/A] n: 28-June-2024

Date of Next Calibration:

28-September-2024

#### **PARAMETERS:**

Equipment No.:

Date of Calibration:

#### pH Value

#### Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.10	+0.10
7.0	6.95	-0.05
10.0	9.82	-0.18
	Tolerance Limit (pH unit)	±0.20

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

Ma Li

Mr Chan Siu Ming, Vico Assistant Laboratory Manager Environmental



#### Ref.2024/04/014CustomerAurecon Hong Kong Ltd.

Date: 23-Apr-24

#### **CERTIFICATE FOR CALIBRATION CHECK TEST**

Model	Serial No.	<b>Calibration Check Gas</b>	Regulator	Full Scale	Response
		1.45% Methane,		100% LEL	29% LEL
		15% Oxygen		30% Vol	15% O2
Altair 5X	221165	60ppm Carbon Monoxide	.25litre/min	1999 ppm	60 ppm CO
		20ppm Hydrogen Sulfide		200 ppm	20 ppm H2S
		10% Vol Carbon Dioxide		10% Vol	3% CO2

Remarks: Regular inspection completed. Calibration passed

MSA Hong Kong Ltd. certify that instrument/s listed above has/have been calibrated check tested on: 23-Apr-24

This instrument was calibrated in accordance with all requirements of the specifications of MSA.

This instrument must be calibration checked prior to use in accordance with the instruction manual.

This instrument was calibrated using NIST traceable equipment and was in accordance with all requirements of the drawings and specifications of MSA.

For and on behalf of MSA Hong Kong Ltd.

Authorised Signature





Appendix F

# Water Quality Monitoring Data & Landfill Gas Monitoring Data

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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)
CE	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	11:04:00 AM	8.74	8.15	31.58	27.19	2.37	5.00	<0.1	<0.01
CE	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	11:04:00 AM	8.74	8.17	31.48	27.16	2.42	4.00	<0.1	<0.01
CE	2/07/2024	Cloudy	Mid-Flood	Moderate	М	12	11:05:00 AM	8.76	8.14	31.39	27.12	2.35	4.00	<0.1	<0.01
CE	2/07/2024	Cloudy	Mid-Flood	Moderate	М	12	11:05:00 AM	8.81	8.14	31.56	27.16	2.41	5.00	<0.1	<0.01
CE	2/07/2024	Cloudy	Mid-Flood	Moderate	В	23	11:06:00 AM	8.74	8.12	31.43	27.19	2.36	8.00	<0.1	<0.01
CE	2/07/2024	Cloudy	Mid-Flood	Moderate	В	23	11:06:00 AM	8.72	8.16	31.54	27.19	2.35	7.00	<0.1	<0.01
CF	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.71	8.23	31.66	27.40	2.43	4.00	<0.1	<0.01
CF	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.72	8.18	31.70	27.46	2.59	8.00	<0.1	<0.01
CF	2/07/2024	Cloudy	Mid-Flood	Moderate	М	10	8:01:00 AM	8.72	8.20	31.77	27.45	2.48	6.00	<0.1	<0.01
CF	2/07/2024	Cloudy	Mid-Flood	Moderate	М	10	8:01:00 AM	8.73	8.23	31.70	27.47	2.54	7.00	<0.1	<0.01
CF	2/07/2024	Cloudy	Mid-Flood	Moderate	В	19	8:02:00 AM	8.64	8.20	31.74	27.43	2.55	7.00	<0.1	<0.01
CF	2/07/2024	Cloudy	Mid-Flood	Moderate	В	19	8:02:00 AM	8.66	8.21	31.74	27.46	2.62	8.00	<0.1	<0.01
WSR01	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:24:00 AM	7.86	8.08	31.03	27.44	2.10	4.00	<0.1	<0.01
WSR01	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:24:00 AM	7.84	8.08	30.90	27.43	2.11	5.00	<0.1	<0.01
WSR01	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	8:25:00 AM	7.78	8.10	31.06	27.46	2.11	5.00	<0.1	<0.01
WSR01	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	8:25:00 AM	7.89	8.09	31.03	27.40	2.02	5.00	<0.1	<0.01
WSR01	2/07/2024	Cloudy	Mid-Flood	Moderate	В	8	8:26:00 AM	7.82	8.10	30.89	27.45	2.01	4.00	<0.1	<0.01
WSR01	2/07/2024	Cloudy	Mid-Flood	Moderate	В	8	8:26:00 AM	7.85	8.07	31.01	27.43	2.08	4.00	<0.1	<0.01
WSR02	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:43:00 AM	8.95	8.19	31.66	27.47	1.86	5.00	<0.1	<0.01
WSR02	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:43:00 AM	8.88	8.22	31.61	27.44	1.86	4.00	<0.1	<0.01
WSR02	2/07/2024	Cloudy	Mid-Flood	Moderate	М	5	8:44:00 AM	8.94	8.21	31.70	27.43	1.82	4.00	<0.1	<0.01
WSR02	2/07/2024	Cloudy	Mid-Flood	Moderate	М	5	8:44:00 AM	8.84	8.21	31.81	27.45	1.81	4.00	<0.1	<0.01
WSR02	2/07/2024	Cloudy	Mid-Flood	Moderate	В	8	8:45:00 AM	8.88	8.21	31.80	27.50	1.85	5.00	<0.1	<0.01
WSR02	2/07/2024	Cloudy	Mid-Flood	Moderate	В	8	8:45:00 AM	8.93	8.20	31.62	27.47	1.84	4.00	<0.1	<0.01
WSR03	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:56:00 AM	8.39	8.11	31.74	27.21	2.12	4.00	<0.1	<0.01
WSR03	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:56:00 AM	8.37	8.11	31.73	27.17	2.07	6.00	<0.1	<0.01
WSR03	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	8:57:00 AM	8.39	8.14	31.78	27.17	1.99	4.00	<0.1	<0.01
WSR03	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	8:57:00 AM	8.34	8.09	31.64	27.19	2.02	5.00	<0.1	<0.01
WSR03	2/07/2024	Cloudy	Mid-Flood	Moderate	В	7	8:58:00 AM	8.35	8.09	31.82	27.22	2.01	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)
WSR03	2/07/2024	Cloudy	Mid-Flood	Moderate	В	7	8:58:00 AM	8.40	8.09	31.76	27.22	1.92	5.00	<0.1	<0.01
WSR04	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:11:00 AM	8.35	8.01	31.29	27.38	1.99	3.00	<0.1	<0.01
WSR04	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:11:00 AM	8.31	7.98	31.19	27.40	1.94	5.00	<0.1	<0.01
WSR04	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:12:00 AM	8.35	7.99	31.36	27.42	1.95	5.00	<0.1	<0.01
WSR04	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:12:00 AM	8.27	8.01	31.20	27.41	1.99	5.00	<0.1	<0.01
WSR04	2/07/2024	Cloudy	Mid-Flood	Moderate	В	7	9:13:00 AM	8.31	7.99	31.21	27.39	1.93	5.00	<0.1	<0.01
WSR04	2/07/2024	Cloudy	Mid-Flood	Moderate	В	7	9:13:00 AM	8.31	7.99	31.23	27.40	1.98	4.00	<0.1	<0.01
WSR16	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:41:00 AM	8.34	8.14	32.19	27.27	1.47	4.00	<0.1	<0.01
WSR16	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:41:00 AM	8.37	8.14	31.99	27.29	1.52	5.00	<0.1	<0.01
WSR16	2/07/2024	Cloudy	Mid-Flood	Moderate	М	8	10:42:00 AM	8.35	8.16	32.00	27.27	1.54	4.00	<0.1	<0.01
WSR16	2/07/2024	Cloudy	Mid-Flood	Moderate	М	8	10:42:00 AM	8.26	8.12	32.08	27.29	1.50	5.00	<0.1	<0.01
WSR16	2/07/2024	Cloudy	Mid-Flood	Moderate	В	14	10:43:00 AM	8.36	8.13	32.11	27.25	1.55	4.00	<0.1	<0.01
WSR16	2/07/2024	Cloudy	Mid-Flood	Moderate	В	14	10:43:00 AM	8.26	8.13	32.16	27.25	1.56	5.00	<0.1	<0.01
WSR33	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:28:00 AM	7.87	8.15	31.93	27.48	1.69	5.00	<0.1	<0.01
WSR33	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:28:00 AM	7.76	8.15	31.75	27.50	1.69	4.00	<0.1	<0.01
WSR33	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:29:00 AM	7.77	8.15	31.83	27.46	1.71	6.00	<0.1	<0.01
WSR33	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:29:00 AM	7.76	8.13	31.93	27.43	1.79	5.00	<0.1	<0.01
WSR33	2/07/2024	Cloudy	Mid-Flood	Moderate	В	7	9:30:00 AM	7.87	8.16	31.86	27.48	1.69	5.00	<0.1	<0.01
WSR33	2/07/2024	Cloudy	Mid-Flood	Moderate	В	7	9:30:00 AM	7.86	8.14	31.75	27.44	1.78	4.00	<0.1	<0.01
WSR36	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:45:00 AM	8.48	7.95	31.66	27.13	1.51	5.00	<0.1	<0.01
WSR36	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:45:00 AM	8.53	7.94	31.44	27.17	1.51	5.00	<0.1	<0.01
WSR36	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:46:00 AM	8.45	7.94	31.60	27.18	1.52	5.00	<0.1	<0.01
WSR36	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:46:00 AM	8.53	7.97	31.66	27.12	1.53	5.00	<0.1	<0.01
WSR36	2/07/2024	Cloudy	Mid-Flood	Moderate	В	6	9:46:00 AM	8.44	7.94	31.57	27.19	1.53	4.00	<0.1	<0.01
WSR36	2/07/2024	Cloudy	Mid-Flood	Moderate	В	6	9:46:00 AM	8.53	7.95	31.58	27.13	1.48	5.00	<0.1	<0.01
WSR37	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:02:00 AM	8.70	8.20	30.74	27.66	1.70	3.00	<0.1	<0.01
WSR37	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:02:00 AM	8.78	8.19	30.56	27.68	1.65	5.00	<0.1	<0.01
WSR37	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	10:03:00 AM	8.78	8.21	30.72	27.66	1.62	3.00	<0.1	<0.01
WSR37	2/07/2024	Cloudy	Mid-Flood	Moderate	М	4	10:03:00 AM	8.78	8.21	30.74	27.68	1.59	4.00	<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)
WSR37	2/07/2024	Cloudy	Mid-Flood	Moderate	В	7	10:04:00 AM	8.80	8.17	30.60	27.69	1.60	5.00	<0.1	<0.01
WSR37	2/07/2024	Cloudy	Mid-Flood	Moderate	В	7	10:04:00 AM	8.80	8.20	30.68	27.72	1.62	4.00	<0.1	<0.01
NF1	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:26:00 AM	8.75	8.12	31.13	27.41	1.46	5.00	<0.1	<0.01
NF1	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:26:00 AM	8.68	8.09	31.10	27.42	1.53	8.00	<0.1	<0.01
NF1	2/07/2024	Cloudy	Mid-Flood	Moderate	М	7	10:27:00 AM	8.69	8.09	31.06	27.39	1.52	5.00	<0.1	<0.01
NF1	2/07/2024	Cloudy	Mid-Flood	Moderate	М	7	10:27:00 AM	8.70	8.12	31.04	27.39	1.52	6.00	<0.1	<0.01
NF1	2/07/2024	Cloudy	Mid-Flood	Moderate	В	12	10:28:00 AM	8.74	8.10	31.13	27.39	1.53	4.00	<0.1	<0.01
NF1	2/07/2024	Cloudy	Mid-Flood	Moderate	В	12	10:28:00 AM	8.71	8.09	31.09	27.40	1.46	7.00	<0.1	<0.01
NF2	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:18:00 AM	8.19	8.12	31.36	27.55	1.94	6.00	<0.1	<0.01
NF2	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:18:00 AM	8.25	8.13	31.23	27.51	1.88	5.00	<0.1	<0.01
NF2	2/07/2024	Cloudy	Mid-Flood	Moderate	М	5	10:19:00 AM	8.22	8.10	31.34	27.51	2.13	5.00	<0.1	<0.01
NF2	2/07/2024	Cloudy	Mid-Flood	Moderate	М	5	10:19:00 AM	8.27	8.14	31.32	27.56	2.04	6.00	<0.1	<0.01
NF2	2/07/2024	Cloudy	Mid-Flood	Moderate	В	10	10:20:00 AM	8.21	8.14	31.20	27.55	2.03	5.00	<0.1	<0.01
NF2	2/07/2024	Cloudy	Mid-Flood	Moderate	В	10	10:20:00 AM	8.31	8.09	31.30	27.51	2.09	5.00	<0.1	<0.01
NF3	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:11:00 AM	8.68	8.16	32.17	27.53	1.84	6.00	<0.1	<0.01
NF3	2/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:11:00 AM	8.69	8.18	32.05	27.49	1.84	6.00	<0.1	<0.01
NF3	2/07/2024	Cloudy	Mid-Flood	Moderate	М	6	10:12:00 AM	8.66	8.17	32.19	27.54	1.86	6.00	<0.1	<0.01
NF3	2/07/2024	Cloudy	Mid-Flood	Moderate	М	6	10:12:00 AM	8.69	8.16	31.96	27.54	1.81	7.00	<0.1	<0.01
NF3	2/07/2024	Cloudy	Mid-Flood	Moderate	В	11	10:13:00 AM	8.74	8.21	32.09	27.56	1.87	5.00	<0.1	<0.01
NF3	2/07/2024	Cloudy	Mid-Flood	Moderate	В	11	10:13:00 AM	8.64	8.21	31.98	27.49	1.79	5.00	<0.1	<0.01
CE	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:23:00 AM	7.89	8.07	31.29	27.34	2.67	3.00	<0.1	<0.01
CE	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:23:00 AM	7.86	8.06	31.29	27.31	2.63	3.00	<0.1	<0.01
CE	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	12	9:24:00 AM	7.88	8.10	31.06	27.34	2.63	4.00	<0.1	<0.01
CE	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	12	9:24:00 AM	7.88	8.07	31.09	27.37	2.51	4.00	<0.1	<0.01
CE	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	22	9:25:00 AM	7.84	8.06	31.17	27.30	2.46	6.00	<0.1	<0.01
CE	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	22	9:25:00 AM	7.81	8.10	31.17	27.33	2.51	7.00	<0.1	<0.01
CF	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:33:00 PM	7.85	8.04	31.87	27.46	2.29	10.00	<0.1	<0.01
CF	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:33:00 PM	7.82	8.06	31.73	27.53	2.25	8.00	<0.1	<0.01
CF	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	12:34:00 PM	7.81	8.04	31.86	27.43	2.24	10.00	<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	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	12:34:00 PM	7.75	8.06	31.75	27.46	2.18	6.00	<0.1	<0.01
CF	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	20	12:35:00 PM	7.72	8.06	31.72	27.55	2.20	3.00	<0.1	<0.01
CF	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	20	12:35:00 PM	7.79	8.03	31.84	27.49	2.21	6.00	<0.1	<0.01
WSR01	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:09:00 PM	7.84	8.00	31.11	27.38	1.90	11.00	<0.1	<0.01
WSR01	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:09:00 PM	7.89	8.03	31.05	27.36	1.87	7.00	<0.1	<0.01
WSR01	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:10:00 PM	7.89	8.03	31.19	27.36	1.86	7.00	<0.1	<0.01
WSR01	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:10:00 PM	7.96	8.02	31.27	27.38	1.81	10.00	<0.1	<0.01
WSR01	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:11:00 PM	7.79	8.02	31.04	27.38	1.86	10.00	<0.1	<0.01
WSR01	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:11:00 PM	7.87	8.02	31.20	27.32	1.91	11.00	<0.1	<0.01
WSR02	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:48:00 AM	7.92	8.11	32.13	27.39	1.53	7.00	<0.1	<0.01
WSR02	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:48:00 AM	7.78	8.11	32.02	27.35	1.51	9.00	<0.1	<0.01
WSR02	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:49:00 AM	7.87	8.09	32.20	27.32	1.61	5.00	<0.1	<0.01
WSR02	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:49:00 AM	7.80	8.12	32.25	27.43	1.55	5.00	<0.1	<0.01
WSR02	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	11:50:00 AM	7.78	8.10	32.04	27.35	1.59	11.00	<0.1	<0.01
WSR02	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	11:50:00 AM	7.87	8.10	32.01	27.44	1.61	10.00	<0.1	<0.01
WSR03	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:32:00 AM	8.62	8.18	31.20	27.17	1.53	9.00	<0.1	<0.01
WSR03	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:32:00 AM	8.51	8.20	31.22	27.18	1.46	7.00	<0.1	<0.01
WSR03	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:33:00 AM	8.62	8.19	31.30	27.09	1.44	8.00	<0.1	<0.01
WSR03	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:33:00 AM	8.52	8.21	31.21	27.08	1.41	8.00	<0.1	<0.01
WSR03	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:34:00 AM	8.63	8.20	31.32	27.20	1.40	8.00	<0.1	<0.01
WSR03	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:34:00 AM	8.65	8.21	31.30	27.08	1.41	7.00	<0.1	<0.01
WSR04	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:19:00 AM	7.76	8.07	31.82	27.29	1.73	6.00	<0.1	<0.01
WSR04	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:19:00 AM	7.83	8.07	31.87	27.28	1.77	7.00	<0.1	<0.01
WSR04	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:20:00 AM	7.76	8.07	31.76	27.33	1.84	6.00	<0.1	<0.01
WSR04	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:20:00 AM	7.76	8.06	31.93	27.20	1.73	8.00	<0.1	<0.01
WSR04	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	11:21:00 AM	7.84	8.06	31.89	27.31	1.78	6.00	<0.1	<0.01
WSR04	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	11:21:00 AM	7.87	8.04	31.71	27.20	1.75	6.00	<0.1	<0.01
WSR16	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:46:00 AM	8.51	8.08	32.08	27.38	1.59	6.00	<0.1	<0.01
WSR16	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:46:00 AM	8.40	8.09	32.02	27.32	1.63	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	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	9:47:00 AM	8.41	8.10	31.99	27.29	1.63	11.00	<0.1	<0.01
WSR16	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	9:47:00 AM	8.49	8.10	31.94	27.32	1.57	10.00	<0.1	<0.01
WSR16	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	16	9:48:00 AM	8.46	8.12	31.97	27.36	1.57	6.00	<0.1	<0.01
WSR16	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	16	9:48:00 AM	8.37	8.12	31.92	27.27	1.61	10.00	<0.1	<0.01
WSR33	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:02:00 AM	8.63	8.18	31.26	27.25	2.05	9.00	<0.1	<0.01
WSR33	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:02:00 AM	8.55	8.17	31.24	27.34	2.14	6.00	<0.1	<0.01
WSR33	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:03:00 AM	8.57	8.16	31.24	27.36	2.11	7.00	<0.1	<0.01
WSR33	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:03:00 AM	8.64	8.17	31.08	27.34	2.13	10.00	<0.1	<0.01
WSR33	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:04:00 AM	8.63	8.15	31.19	27.37	2.15	11.00	<0.1	<0.01
WSR33	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:04:00 AM	8.66	8.19	31.19	27.24	2.12	7.00	<0.1	<0.01
WSR36	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:46:00 AM	8.25	8.07	30.75	27.28	2.04	8.00	<0.1	<0.01
WSR36	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:46:00 AM	8.34	8.09	30.80	27.30	2.13	11.00	<0.1	<0.01
WSR36	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:47:00 AM	8.23	8.08	30.68	27.28	2.08	8.00	<0.1	<0.01
WSR36	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:47:00 AM	8.29	8.07	30.80	27.32	2.03	11.00	<0.1	<0.01
WSR36	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:47:00 AM	8.24	8.09	30.70	27.23	2.13	6.00	<0.1	<0.01
WSR36	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:47:00 AM	8.32	8.09	30.60	27.30	2.04	6.00	<0.1	<0.01
WSR37	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:40:00 AM	7.76	8.04	31.13	27.28	1.46	9.00	<0.1	<0.01
WSR37	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:40:00 AM	7.83	8.04	31.01	27.36	1.43	10.00	<0.1	<0.01
WSR37	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:41:00 AM	7.86	8.02	31.13	27.33	1.46	8.00	<0.1	<0.01
WSR37	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:41:00 AM	7.87	8.02	31.24	27.32	1.50	7.00	<0.1	<0.01
WSR37	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:42:00 AM	7.73	8.03	31.20	27.30	1.48	7.00	<0.1	<0.01
WSR37	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:42:00 AM	7.79	8.01	31.16	27.23	1.52	10.00	<0.1	<0.01
NF1	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:08:00 AM	8.52	8.18	31.99	27.48	1.68	9.00	<0.1	<0.01
NF1	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:08:00 AM	8.56	8.21	32.04	27.38	1.71	8.00	<0.1	<0.01
NF1	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	10:09:00 AM	8.59	8.22	32.01	27.43	1.76	11.00	<0.1	<0.01
NF1	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	10:09:00 AM	8.60	8.19	32.16	27.44	1.70	11.00	<0.1	<0.01
NF1	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	12	10:10:00 AM	8.59	8.18	32.11	27.37	1.66	10.00	<0.1	<0.01
NF1	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	12	10:10:00 AM	8.51	8.18	32.18	27.49	1.75	10.00	<0.1	<0.01
NF2	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:22:00 AM	8.54	8.02	31.02	27.17	2.03	7.00	<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)
NF2	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:22:00 AM	8.50	8.05	31.08	27.14	2.03	6.00	<0.1	<0.01
NF2	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:23:00 AM	8.58	8.03	30.96	27.14	2.04	9.00	<0.1	<0.01
NF2	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:23:00 AM	8.46	8.02	30.96	27.08	1.98	6.00	<0.1	<0.01
NF2	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	10	10:24:00 AM	8.62	8.01	30.99	27.19	2.01	6.00	<0.1	<0.01
NF2	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	10	10:24:00 AM	8.63	8.04	30.94	27.16	2.00	9.00	<0.1	<0.01
NF3	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:32:00 AM	7.83	7.97	31.30	27.45	1.56	6.00	<0.1	<0.01
NF3	4/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:32:00 AM	7.74	7.99	31.44	27.39	1.58	8.00	<0.1	<0.01
NF3	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	10:33:00 AM	7.70	7.98	31.29	27.40	1.57	7.00	<0.1	<0.01
NF3	4/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	10:33:00 AM	7.85	8.01	31.46	27.49	1.53	8.00	<0.1	<0.01
NF3	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:34:00 AM	7.73	7.99	31.48	27.51	1.56	11.00	<0.1	<0.01
NF3	4/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:34:00 AM	7.83	7.99	31.33	27.41	1.56	7.00	<0.1	<0.01
CE	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:51:00 AM	7.94	8.24	32.52	26.86	2.49	2.50	<0.1	<0.01
CE	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:51:00 AM	8.07	8.22	32.47	26.89	2.52	2.50	<0.1	<0.01
CE	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	10:52:00 AM	7.94	8.21	32.45	26.87	2.48	2.50	<0.1	<0.01
CE	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	10:52:00 AM	8.01	8.21	32.46	26.90	2.39	3.00	<0.1	<0.01
CE	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	22	10:53:00 AM	7.98	8.23	32.44	26.84	2.35	3.00	<0.1	<0.01
CE	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	22	10:53:00 AM	7.94	8.21	32.53	26.90	2.49	2.50	<0.1	<0.01
CF	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	2:05:00 PM	8.34	8.10	31.62	26.79	2.24	2.50	<0.1	<0.01
CF	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	2:05:00 PM	8.38	8.09	31.71	26.81	2.22	3.00	<0.1	<0.01
CF	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	2:06:00 PM	8.35	8.12	31.71	26.79	2.30	3.00	<0.1	<0.01
CF	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	2:06:00 PM	8.31	8.12	31.67	26.85	2.18	2.50	<0.1	<0.01
CF	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	19	2:07:00 PM	8.37	8.08	31.69	26.79	2.14	2.50	<0.1	<0.01
CF	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	19	2:07:00 PM	8.40	8.09	31.61	26.80	2.13	4.00	<0.1	<0.01
WSR01	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:39:00 PM	8.51	8.12	32.06	26.93	1.65	2.50	<0.1	<0.01
WSR01	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:39:00 PM	8.53	8.14	32.04	26.91	1.66	2.50	<0.1	<0.01
WSR01	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:40:00 PM	8.44	8.14	32.05	26.92	1.69	3.00	<0.1	<0.01
WSR01	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:40:00 PM	8.52	8.13	32.12	26.88	1.66	2.50	<0.1	<0.01
WSR01	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:41:00 PM	8.51	8.14	32.08	26.92	1.68	2.50	<0.1	<0.01
WSR01	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:41:00 PM	8.53	8.14	32.06	26.89	1.65	4.00	<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)
WSR02	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:20:00 PM	7.71	8.17	31.06	27.15	1.42	2.50	<0.1	<0.01
WSR02	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:20:00 PM	7.74	8.18	31.17	27.09	1.39	4.00	<0.1	<0.01
WSR02	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	1:21:00 PM	7.73	8.18	31.17	27.10	1.39	2.50	<0.1	<0.01
WSR02	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	1:21:00 PM	7.70	8.19	31.10	27.13	1.42	2.50	<0.1	<0.01
WSR02	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:22:00 PM	7.64	8.18	31.09	27.13	1.41	4.00	<0.1	<0.01
WSR02	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:22:00 PM	7.63	8.17	31.07	27.10	1.44	2.50	<0.1	<0.01
WSR03	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:02:00 PM	8.65	8.13	31.93	26.96	2.06	2.50	<0.1	<0.01
WSR03	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:02:00 PM	8.64	8.15	31.94	26.91	2.06	2.50	<0.1	<0.01
WSR03	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:03:00 PM	8.58	8.13	31.97	26.95	2.04	2.50	<0.1	<0.01
WSR03	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:03:00 PM	8.67	8.16	31.88	26.92	2.04	2.50	<0.1	<0.01
WSR03	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	1:04:00 PM	8.62	8.14	31.90	26.92	2.04	4.00	<0.1	<0.01
WSR03	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	1:04:00 PM	8.67	8.14	31.92	26.96	2.02	2.50	<0.1	<0.01
WSR04	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:49:00 PM	8.52	8.18	32.36	26.98	1.41	7.00	<0.1	<0.01
WSR04	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:49:00 PM	8.43	8.18	32.39	26.99	1.42	10.00	<0.1	<0.01
WSR04	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	3	12:50:00 PM	8.41	8.18	32.35	27.03	1.43	3.00	<0.1	<0.01
WSR04	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	3	12:50:00 PM	8.52	8.17	32.48	26.98	1.47	2.50	<0.1	<0.01
WSR04	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:51:00 PM	8.53	8.14	32.44	26.99	1.47	4.00	<0.1	<0.01
WSR04	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:51:00 PM	8.42	8.14	32.41	26.99	1.41	2.50	<0.1	<0.01
WSR16	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:14:00 AM	8.80	8.21	31.11	27.09	1.59	2.50	<0.1	<0.01
WSR16	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:14:00 AM	8.82	8.23	31.17	27.10	1.62	4.00	<0.1	<0.01
WSR16	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	11:15:00 AM	8.81	8.21	31.12	27.09	1.64	2.50	<0.1	<0.01
WSR16	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	11:15:00 AM	8.87	8.21	31.14	27.05	1.61	3.00	<0.1	<0.01
WSR16	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	14	11:16:00 AM	8.91	8.20	31.09	27.07	1.59	2.50	<0.1	<0.01
WSR16	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	14	11:16:00 AM	8.80	8.22	31.11	27.06	1.60	2.50	<0.1	<0.01
WSR33	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:32:00 PM	7.86	8.15	32.03	26.98	1.41	2.50	<0.1	<0.01
WSR33	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:32:00 PM	7.96	8.13	32.02	26.99	1.39	2.50	<0.1	<0.01
WSR33	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:33:00 PM	7.97	8.15	32.01	27.00	1.46	2.50	<0.1	<0.01
WSR33	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:33:00 PM	7.87	8.12	32.01	27.04	1.48	3.00	<0.1	<0.01
WSR33	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:34:00 PM	7.89	8.15	31.99	27.02	1.46	4.00	<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	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:34:00 PM	7.87	8.13	31.96	27.04	1.39	3.00	<0.1	<0.01
WSR36	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:16:00 PM	8.55	8.06	31.46	27.16	1.83	5.00	<0.1	<0.01
WSR36	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:16:00 PM	8.52	8.06	31.47	27.15	1.80	3.00	<0.1	<0.01
WSR36	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	3	12:17:00 PM	8.62	8.09	31.47	27.18	1.79	4.00	<0.1	<0.01
WSR36	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	3	12:17:00 PM	8.62	8.08	31.48	27.19	1.82	3.00	<0.1	<0.01
WSR36	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:17:00 PM	8.53	8.08	31.49	27.20	1.76	4.00	<0.1	<0.01
WSR36	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:17:00 PM	8.58	8.05	31.43	27.21	1.83	2.50	<0.1	<0.01
WSR37	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:08:00 PM	8.42	8.09	32.03	27.13	2.03	3.00	<0.1	<0.01
WSR37	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:08:00 PM	8.33	8.09	31.94	27.11	2.03	2.50	<0.1	<0.01
WSR37	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:09:00 PM	8.46	8.11	31.99	27.06	2.09	3.00	<0.1	<0.01
WSR37	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:09:00 PM	8.33	8.10	31.94	27.06	2.03	4.00	<0.1	<0.01
WSR37	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:10:00 PM	8.41	8.11	32.00	27.11	2.10	2.50	<0.1	<0.01
WSR37	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:10:00 PM	8.46	8.09	31.94	27.12	2.07	2.50	<0.1	<0.01
NF1	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:36:00 AM	8.40	8.21	32.37	27.03	2.16	3.00	<0.1	<0.01
NF1	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:36:00 AM	8.46	8.22	32.32	27.05	2.16	2.50	<0.1	<0.01
NF1	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:37:00 AM	8.39	8.22	32.30	27.04	2.17	4.00	<0.1	<0.01
NF1	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:37:00 AM	8.42	8.18	32.36	27.02	2.16	3.00	<0.1	<0.01
NF1	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:38:00 AM	8.43	8.21	32.32	27.02	2.14	2.50	<0.1	<0.01
NF1	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:38:00 AM	8.37	8.22	32.42	27.05	2.17	2.50	<0.1	<0.01
NF2	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:50:00 AM	8.64	8.14	32.32	26.92	1.86	2.50	<0.1	<0.01
NF2	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:50:00 AM	8.65	8.12	32.39	26.85	1.83	2.50	<0.1	<0.01
NF2	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:51:00 AM	8.55	8.10	32.39	26.90	1.85	2.50	<0.1	<0.01
NF2	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:51:00 AM	8.54	8.13	32.42	26.86	1.83	2.50	<0.1	<0.01
NF2	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	10	11:52:00 AM	8.64	8.13	32.44	26.89	1.87	2.50	<0.1	<0.01
NF2	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	10	11:52:00 AM	8.52	8.10	32.33	26.87	1.86	3.00	<0.1	<0.01
NF3	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:58:00 AM	8.83	8.09	31.99	27.00	1.57	3.00	<0.1	<0.01
NF3	6/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:58:00 AM	8.92	8.09	31.95	27.02	1.54	2.50	<0.1	<0.01
NF3	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	11:59:00 AM	8.87	8.11	31.96	27.01	1.58	3.00	<0.1	<0.01
NF3	6/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	11:59:00 AM	8.83	8.09	32.05	27.02	1.60	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	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	12:00:00 PM	8.81	8.10	32.00	27.04	1.54	2.50	<0.1	<0.01
NF3	6/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	12:00:00 PM	8.81	8.12	31.96	26.98	1.55	3.00	<0.1	<0.01
CE	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	11:18:00 AM	8.01	7.99	31.15	27.18	2.28	5.00	<0.1	<0.01
CE	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	11:18:00 AM	8.00	8.04	31.21	27.13	2.37	5.00	<0.1	<0.01
CE	8/07/2024	Sunny	Mid-Flood	Moderate	М	10	11:19:00 AM	8.04	8.03	31.19	27.14	2.18	9.00	<0.1	<0.01
CE	8/07/2024	Sunny	Mid-Flood	Moderate	М	10	11:19:00 AM	8.03	8.03	31.23	27.16	2.15	8.00	<0.1	<0.01
CE	8/07/2024	Sunny	Mid-Flood	Moderate	В	20	11:20:00 AM	8.04	7.99	31.18	27.14	2.05	8.00	<0.1	<0.01
CE	8/07/2024	Sunny	Mid-Flood	Moderate	В	20	11:20:00 AM	8.04	7.99	31.17	27.13	2.10	9.00	<0.1	<0.01
CF	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:08:00 AM	8.18	7.94	31.66	26.97	2.68	10.00	<0.1	<0.01
CF	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:08:00 AM	8.14	7.99	31.65	26.99	2.68	9.00	<0.1	<0.01
CF	8/07/2024	Sunny	Mid-Flood	Moderate	М	10	8:09:00 AM	8.16	7.99	31.63	26.98	2.64	6.00	<0.1	<0.01
CF	8/07/2024	Sunny	Mid-Flood	Moderate	М	10	8:09:00 AM	8.18	7.98	31.70	26.97	2.70	7.00	<0.1	<0.01
CF	8/07/2024	Sunny	Mid-Flood	Moderate	В	18	8:10:00 AM	8.15	7.94	31.63	26.96	2.69	9.00	<0.1	<0.01
CF	8/07/2024	Sunny	Mid-Flood	Moderate	В	18	8:10:00 AM	8.15	7.95	31.71	26.97	2.68	8.00	<0.1	<0.01
WSR01	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:32:00 AM	8.52	8.01	31.24	27.17	1.87	7.00	<0.1	<0.01
WSR01	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:32:00 AM	8.49	8.01	31.23	27.17	1.91	8.00	<0.1	<0.01
WSR01	8/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:33:00 AM	8.50	8.06	31.24	27.18	1.90	4.00	<0.1	<0.01
WSR01	8/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:33:00 AM	8.50	8.05	31.23	27.14	1.88	3.00	<0.1	<0.01
WSR01	8/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:34:00 AM	8.48	8.07	31.28	27.19	1.84	5.00	<0.1	<0.01
WSR01	8/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:34:00 AM	8.50	8.01	31.25	27.14	1.84	6.00	<0.1	<0.01
WSR02	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:53:00 AM	8.60	8.00	31.34	27.30	1.48	4.00	<0.1	<0.01
WSR02	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:53:00 AM	8.60	8.00	31.35	27.28	1.48	3.00	<0.1	<0.01
WSR02	8/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:54:00 AM	8.58	7.98	31.31	27.29	1.47	2.50	<0.1	<0.01
WSR02	8/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:54:00 AM	8.59	8.01	31.33	27.26	1.44	4.00	<0.1	<0.01
WSR02	8/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:55:00 AM	8.59	7.97	31.37	27.28	1.45	3.00	<0.1	<0.01
WSR02	8/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:55:00 AM	8.58	7.96	31.30	27.27	1.50	3.00	<0.1	<0.01
WSR03	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:09:00 AM	8.27	8.07	32.07	27.18	1.76	2.50	<0.1	<0.01
WSR03	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:09:00 AM	8.25	8.08	32.06	27.21	1.76	3.00	<0.1	<0.01
WSR03	8/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:10:00 AM	8.23	8.07	32.07	27.19	1.75	4.00	<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)
WSR03	8/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:10:00 AM	8.24	8.09	32.14	27.21	1.75	3.00	<0.1	<0.01
WSR03	8/07/2024	Sunny	Mid-Flood	Moderate	В	7	9:11:00 AM	8.24	8.10	32.07	27.16	1.71	3.00	<0.1	<0.01
WSR03	8/07/2024	Sunny	Mid-Flood	Moderate	В	7	9:11:00 AM	8.26	8.11	32.03	27.16	1.71	2.50	<0.1	<0.01
WSR04	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:25:00 AM	8.59	8.11	30.95	27.21	1.52	3.00	<0.1	<0.01
WSR04	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:25:00 AM	8.56	8.13	30.97	27.20	1.51	4.00	<0.1	<0.01
WSR04	8/07/2024	Sunny	Mid-Flood	Moderate	М	3	9:26:00 AM	8.59	8.11	30.98	27.21	1.50	7.00	<0.1	<0.01
WSR04	8/07/2024	Sunny	Mid-Flood	Moderate	М	3	9:26:00 AM	8.55	8.12	31.00	27.20	1.54	4.00	<0.1	<0.01
WSR04	8/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:27:00 AM	8.56	8.15	30.92	27.18	1.50	2.50	<0.1	<0.01
WSR04	8/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:27:00 AM	8.57	8.13	30.96	27.21	1.49	4.00	<0.1	<0.01
WSR16	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:55:00 AM	8.88	8.19	31.96	27.18	1.81	10.00	<0.1	<0.01
WSR16	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:55:00 AM	8.90	8.17	31.99	27.17	1.84	7.00	<0.1	<0.01
WSR16	8/07/2024	Sunny	Mid-Flood	Moderate	М	8	10:56:00 AM	8.90	8.21	32.03	27.13	1.86	6.00	<0.1	<0.01
WSR16	8/07/2024	Sunny	Mid-Flood	Moderate	М	8	10:56:00 AM	8.89	8.22	32.02	27.17	1.84	8.00	<0.1	<0.01
WSR16	8/07/2024	Sunny	Mid-Flood	Moderate	В	16	10:57:00 AM	8.90	8.18	32.05	27.16	1.84	6.00	<0.1	<0.01
WSR16	8/07/2024	Sunny	Mid-Flood	Moderate	В	16	10:57:00 AM	8.88	8.17	32.02	27.17	1.84	4.00	<0.1	<0.01
WSR33	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:42:00 AM	8.53	7.99	31.53	27.23	1.94	10.00	<0.1	<0.01
WSR33	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:42:00 AM	8.53	7.98	31.54	27.22	1.92	7.00	<0.1	<0.01
WSR33	8/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:43:00 AM	8.52	7.94	31.53	27.23	1.91	7.00	<0.1	<0.01
WSR33	8/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:43:00 AM	8.49	7.94	31.48	27.21	1.96	10.00	<0.1	<0.01
WSR33	8/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:44:00 AM	8.51	8.00	31.52	27.23	1.92	9.00	<0.1	<0.01
WSR33	8/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:44:00 AM	8.49	7.95	31.54	27.22	1.92	6.00	<0.1	<0.01
WSR36	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:59:00 AM	8.46	8.15	32.48	27.32	1.90	7.00	<0.1	<0.01
WSR36	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:59:00 AM	8.44	8.13	32.45	27.32	1.96	8.00	<0.1	<0.01
WSR36	8/07/2024	Sunny	Mid-Flood	Moderate	М	4	10:00:00 AM	8.46	8.12	32.43	27.34	1.93	3.00	<0.1	<0.01
WSR36	8/07/2024	Sunny	Mid-Flood	Moderate	М	4	10:00:00 AM	8.45	8.14	32.52	27.32	1.97	5.00	<0.1	<0.01
WSR36	8/07/2024	Sunny	Mid-Flood	Moderate	В	6	10:00:00 AM	8.47	8.16	32.43	27.37	1.90	6.00	<0.1	<0.01
WSR36	8/07/2024	Sunny	Mid-Flood	Moderate	В	6	10:00:00 AM	8.47	8.16	32.41	27.34	1.91	9.00	<0.1	<0.01
WSR37	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:16:00 AM	8.61	8.16	31.28	27.25	1.93	5.00	<0.1	<0.01
WSR37	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:16:00 AM	8.61	8.18	31.33	27.23	1.86	4.00	<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)
WSR37	8/07/2024	Sunny	Mid-Flood	Moderate	М	4	10:17:00 AM	8.61	8.15	31.32	27.26	1.88	2.50	<0.1	<0.01
WSR37	8/07/2024	Sunny	Mid-Flood	Moderate	М	4	10:17:00 AM	8.65	8.12	31.35	27.23	1.86	4.00	<0.1	<0.01
WSR37	8/07/2024	Sunny	Mid-Flood	Moderate	В	8	10:18:00 AM	8.64	8.15	31.33	27.24	1.88	2.50	<0.1	<0.01
WSR37	8/07/2024	Sunny	Mid-Flood	Moderate	В	8	10:18:00 AM	8.63	8.13	31.32	27.23	1.89	2.50	<0.1	<0.01
NF1	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:40:00 AM	8.52	8.07	31.44	27.16	1.41	10.00	<0.1	<0.01
NF1	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:40:00 AM	8.53	8.05	31.39	27.20	1.47	9.00	<0.1	<0.01
NF1	8/07/2024	Sunny	Mid-Flood	Moderate	М	7	10:41:00 AM	8.53	8.05	31.41	27.18	1.44	9.00	<0.1	<0.01
NF1	8/07/2024	Sunny	Mid-Flood	Moderate	М	7	10:41:00 AM	8.56	8.06	31.44	27.21	1.47	9.00	<0.1	<0.01
NF1	8/07/2024	Sunny	Mid-Flood	Moderate	В	13	10:42:00 AM	8.54	8.05	31.43	27.21	1.44	6.00	<0.1	<0.01
NF1	8/07/2024	Sunny	Mid-Flood	Moderate	В	13	10:42:00 AM	8.55	8.08	31.39	27.19	1.46	4.00	<0.1	<0.01
NF2	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:32:00 AM	7.81	8.14	31.84	27.11	1.57	9.00	<0.1	<0.01
NF2	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:32:00 AM	7.84	8.17	31.87	27.09	1.55	11.00	<0.1	<0.01
NF2	8/07/2024	Sunny	Mid-Flood	Moderate	М	5	10:33:00 AM	7.83	8.13	31.80	27.08	1.58	8.00	<0.1	<0.01
NF2	8/07/2024	Sunny	Mid-Flood	Moderate	М	5	10:33:00 AM	7.84	8.15	31.82	27.07	1.52	7.00	<0.1	<0.01
NF2	8/07/2024	Sunny	Mid-Flood	Moderate	В	9	10:34:00 AM	7.84	8.15	31.78	27.08	1.59	5.00	<0.1	<0.01
NF2	8/07/2024	Sunny	Mid-Flood	Moderate	В	9	10:34:00 AM	7.85	8.17	31.81	27.09	1.56	7.00	<0.1	<0.01
NF3	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:25:00 AM	8.05	8.08	31.79	27.38	1.98	7.00	<0.1	<0.01
NF3	8/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:25:00 AM	8.05	8.11	31.75	27.35	2.01	8.00	<0.1	<0.01
NF3	8/07/2024	Sunny	Mid-Flood	Moderate	М	6	10:26:00 AM	8.06	8.10	31.79	27.34	1.99	6.00	<0.1	<0.01
NF3	8/07/2024	Sunny	Mid-Flood	Moderate	М	6	10:26:00 AM	8.06	8.13	31.77	27.36	1.98	6.00	<0.1	<0.01
NF3	8/07/2024	Sunny	Mid-Flood	Moderate	В	11	10:27:00 AM	8.03	8.07	31.73	27.37	1.96	9.00	<0.1	<0.01
NF3	8/07/2024	Sunny	Mid-Flood	Moderate	В	11	10:27:00 AM	8.07	8.08	31.74	27.34	1.95	10.00	<0.1	<0.01
CE	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	11:01:00 AM	8.91	8.14	32.11	27.07	2.39	6.00	<0.1	<0.01
CE	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	11:01:00 AM	8.92	8.15	32.20	27.04	2.46	6.00	<0.1	<0.01
CE	10/07/2024	Sunny	Mid-Flood	Moderate	М	12	11:02:00 AM	8.97	8.16	32.14	27.03	2.47	6.00	<0.1	<0.01
CE	10/07/2024	Sunny	Mid-Flood	Moderate	М	12	11:02:00 AM	8.96	8.18	32.08	27.05	2.48	7.00	<0.1	<0.01
CE	10/07/2024	Sunny	Mid-Flood	Moderate	В	23	11:03:00 AM	8.88	8.16	32.08	27.05	2.38	8.00	<0.1	<0.01
CE	10/07/2024	Sunny	Mid-Flood	Moderate	В	23	11:03:00 AM	8.96	8.15	32.20	27.05	2.33	6.00	<0.1	<0.01
CF	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:00:00 AM	8.13	8.10	31.85	27.02	2.89	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)
CF	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:00:00 AM	8.05	8.06	31.81	27.02	2.92	7.00	<0.1	<0.01
CF	10/07/2024	Sunny	Mid-Flood	Moderate	М	10	8:01:00 AM	8.11	8.08	31.88	27.05	2.91	6.00	<0.1	<0.01
CF	10/07/2024	Sunny	Mid-Flood	Moderate	М	10	8:01:00 AM	8.12	8.05	31.93	27.05	2.90	7.00	<0.1	<0.01
CF	10/07/2024	Sunny	Mid-Flood	Moderate	В	19	8:02:00 AM	8.07	8.10	31.85	27.05	2.78	8.00	<0.1	<0.01
CF	10/07/2024	Sunny	Mid-Flood	Moderate	В	19	8:02:00 AM	8.13	8.08	31.88	27.04	2.75	8.00	<0.1	<0.01
WSR01	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:24:00 AM	8.73	8.14	31.50	27.10	1.82	8.00	<0.1	<0.01
WSR01	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:24:00 AM	8.73	8.14	31.47	27.09	1.82	7.00	<0.1	<0.01
WSR01	10/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:25:00 AM	8.70	8.15	31.42	27.07	1.82	7.00	<0.1	<0.01
WSR01	10/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:25:00 AM	8.76	8.16	31.47	27.09	1.81	6.00	<0.1	<0.01
WSR01	10/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:26:00 AM	8.72	8.14	31.52	27.05	1.81	8.00	<0.1	<0.01
WSR01	10/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:26:00 AM	8.71	8.16	31.47	27.06	1.82	7.00	<0.1	<0.01
WSR02	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:42:00 AM	8.28	8.31	32.95	27.28	1.56	6.00	<0.1	<0.01
WSR02	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:42:00 AM	8.34	8.33	32.94	27.25	1.58	6.00	<0.1	<0.01
WSR02	10/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:43:00 AM	8.31	8.32	33.03	27.25	1.54	6.00	<0.1	<0.01
WSR02	10/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:43:00 AM	8.28	8.34	32.92	27.26	1.55	7.00	<0.1	<0.01
WSR02	10/07/2024	Sunny	Mid-Flood	Moderate	В	9	8:44:00 AM	8.34	8.33	32.93	27.25	1.54	8.00	<0.1	<0.01
WSR02	10/07/2024	Sunny	Mid-Flood	Moderate	В	9	8:44:00 AM	8.28	8.31	32.99	27.27	1.55	7.00	<0.1	<0.01
WSR03	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:56:00 AM	8.13	8.05	32.60	27.07	1.80	6.00	<0.1	<0.01
WSR03	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:56:00 AM	8.08	8.06	32.63	27.08	1.81	5.00	<0.1	<0.01
WSR03	10/07/2024	Sunny	Mid-Flood	Moderate	М	4	8:57:00 AM	8.08	8.08	32.63	27.12	1.81	8.00	<0.1	<0.01
WSR03	10/07/2024	Sunny	Mid-Flood	Moderate	М	4	8:57:00 AM	8.13	8.08	32.61	27.10	1.80	7.00	<0.1	<0.01
WSR03	10/07/2024	Sunny	Mid-Flood	Moderate	В	7	8:58:00 AM	8.10	8.04	32.64	27.11	1.80	5.00	<0.1	<0.01
WSR03	10/07/2024	Sunny	Mid-Flood	Moderate	В	7	8:58:00 AM	8.10	8.07	32.58	27.10	1.84	6.00	<0.1	<0.01
WSR04	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:12:00 AM	8.45	8.27	32.09	27.35	1.72	6.00	<0.1	<0.01
WSR04	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:12:00 AM	8.36	8.27	32.09	27.35	1.73	6.00	<0.1	<0.01
WSR04	10/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:13:00 AM	8.38	8.29	32.09	27.36	1.72	7.00	<0.1	<0.01
WSR04	10/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:13:00 AM	8.42	8.31	32.09	27.32	1.75	6.00	<0.1	<0.01
WSR04	10/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:14:00 AM	8.43	8.31	32.13	27.33	1.71	7.00	<0.1	<0.01
WSR04	10/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:14:00 AM	8.38	8.28	32.11	27.35	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	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:41:00 AM	8.65	8.33	32.89	27.23	1.97	9.00	<0.1	<0.01
WSR16	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:41:00 AM	8.61	8.32	32.81	27.21	1.99	5.00	<0.1	<0.01
WSR16	10/07/2024	Sunny	Mid-Flood	Moderate	М	8	10:42:00 AM	8.61	8.32	32.90	27.22	2.00	6.00	<0.1	<0.01
WSR16	10/07/2024	Sunny	Mid-Flood	Moderate	М	8	10:42:00 AM	8.63	8.32	32.87	27.19	2.01	7.00	<0.1	<0.01
WSR16	10/07/2024	Sunny	Mid-Flood	Moderate	В	15	10:43:00 AM	8.60	8.32	32.84	27.19	2.01	5.00	<0.1	<0.01
WSR16	10/07/2024	Sunny	Mid-Flood	Moderate	В	15	10:43:00 AM	8.60	8.34	32.93	27.19	1.98	7.00	<0.1	<0.01
WSR33	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:29:00 AM	8.15	8.25	32.10	27.39	2.08	5.00	<0.1	<0.01
WSR33	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:29:00 AM	8.16	8.31	32.08	27.36	2.07	6.00	<0.1	<0.01
WSR33	10/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:30:00 AM	8.16	8.25	32.18	27.36	2.07	7.00	<0.1	<0.01
WSR33	10/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:30:00 AM	8.20	8.30	32.15	27.39	2.07	6.00	<0.1	<0.01
WSR33	10/07/2024	Sunny	Mid-Flood	Moderate	В	7	9:31:00 AM	8.16	8.26	32.16	27.37	2.08	6.00	<0.1	<0.01
WSR33	10/07/2024	Sunny	Mid-Flood	Moderate	В	7	9:31:00 AM	8.21	8.27	32.08	27.38	2.10	7.00	<0.1	<0.01
WSR36	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:46:00 AM	8.78	8.10	32.42	27.29	1.94	8.00	<0.1	<0.01
WSR36	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:46:00 AM	8.84	8.09	32.44	27.27	1.93	7.00	<0.1	<0.01
WSR36	10/07/2024	Sunny	Mid-Flood	Moderate	М	3	9:47:00 AM	8.81	8.08	32.45	27.29	1.93	7.00	<0.1	<0.01
WSR36	10/07/2024	Sunny	Mid-Flood	Moderate	М	3	9:47:00 AM	8.87	8.13	32.50	27.24	1.96	6.00	<0.1	<0.01
WSR36	10/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:47:00 AM	8.79	8.08	32.42	27.29	1.93	5.00	<0.1	<0.01
WSR36	10/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:47:00 AM	8.83	8.07	32.51	27.25	1.92	5.00	<0.1	<0.01
WSR37	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:03:00 AM	8.72	8.16	33.05	27.20	1.97	7.00	<0.1	<0.01
WSR37	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:03:00 AM	8.72	8.15	33.00	27.18	1.95	5.00	<0.1	<0.01
WSR37	10/07/2024	Sunny	Mid-Flood	Moderate	М	4	10:04:00 AM	8.72	8.14	33.05	27.19	1.97	7.00	<0.1	<0.01
WSR37	10/07/2024	Sunny	Mid-Flood	Moderate	М	4	10:04:00 AM	8.73	8.16	32.96	27.19	1.96	6.00	<0.1	<0.01
WSR37	10/07/2024	Sunny	Mid-Flood	Moderate	В	8	10:05:00 AM	8.68	8.13	33.09	27.18	1.96	7.00	<0.1	<0.01
WSR37	10/07/2024	Sunny	Mid-Flood	Moderate	В	8	10:05:00 AM	8.70	8.19	33.00	27.18	1.96	5.00	<0.1	<0.01
NF1	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:27:00 AM	8.41	8.06	32.35	27.26	1.82	6.00	<0.1	<0.01
NF1	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:27:00 AM	8.34	8.11	32.44	27.30	1.84	7.00	<0.1	<0.01
NF1	10/07/2024	Sunny	Mid-Flood	Moderate	М	7	10:28:00 AM	8.36	8.08	32.34	27.29	1.83	7.00	<0.1	<0.01
NF1	10/07/2024	Sunny	Mid-Flood	Moderate	М	7	10:28:00 AM	8.33	8.06	32.36	27.29	1.85	6.00	<0.1	<0.01
NF1	10/07/2024	Sunny	Mid-Flood	Moderate	В	12	10:29:00 AM	8.38	8.09	32.44	27.28	1.85	8.00	<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)
NF1	10/07/2024	Sunny	Mid-Flood	Moderate	В	12	10:29:00 AM	8.39	8.10	32.32	27.29	1.82	6.00	<0.1	<0.01
NF2	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:19:00 AM	8.59	8.33	31.80	26.95	1.61	7.00	<0.1	<0.01
NF2	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:19:00 AM	8.66	8.29	31.88	26.96	1.59	8.00	<0.1	<0.01
NF2	10/07/2024	Sunny	Mid-Flood	Moderate	М	5	10:20:00 AM	8.59	8.32	31.79	26.93	1.57	9.00	<0.1	<0.01
NF2	10/07/2024	Sunny	Mid-Flood	Moderate	М	5	10:20:00 AM	8.62	8.34	31.86	26.97	1.58	8.00	<0.1	<0.01
NF2	10/07/2024	Sunny	Mid-Flood	Moderate	В	10	10:21:00 AM	8.60	8.35	31.83	26.95	1.41	8.00	<0.1	<0.01
NF2	10/07/2024	Sunny	Mid-Flood	Moderate	В	10	10:21:00 AM	8.67	8.31	31.89	26.94	1.43	7.00	<0.1	<0.01
NF3	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:12:00 AM	8.28	8.12	32.53	27.08	2.03	6.00	<0.1	<0.01
NF3	10/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:12:00 AM	8.32	8.13	32.59	27.07	2.02	7.00	<0.1	<0.01
NF3	10/07/2024	Sunny	Mid-Flood	Moderate	М	6	10:13:00 AM	8.33	8.09	32.64	27.09	2.01	6.00	<0.1	<0.01
NF3	10/07/2024	Sunny	Mid-Flood	Moderate	М	6	10:13:00 AM	8.31	8.10	32.56	27.06	2.01	6.00	<0.1	<0.01
NF3	10/07/2024	Sunny	Mid-Flood	Moderate	В	12	10:14:00 AM	8.27	8.10	32.64	27.06	2.05	9.00	<0.1	<0.01
NF3	10/07/2024	Sunny	Mid-Flood	Moderate	В	12	10:14:00 AM	8.32	8.15	32.64	27.10	2.01	6.00	<0.1	<0.01
CE	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	11:13:00 AM	8.14	8.12	32.14	27.20	1.64	2.50	<0.1	<0.01
CE	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	11:13:00 AM	8.15	8.16	32.19	27.19	1.71	3.00	<0.1	<0.01
CE	13/07/2024	Sunny	Mid-Flood	Moderate	М	10	11:14:00 AM	8.11	8.14	32.09	27.27	1.73	4.00	<0.1	<0.01
CE	13/07/2024	Sunny	Mid-Flood	Moderate	М	10	11:14:00 AM	8.14	8.13	32.09	27.24	1.71	5.00	<0.1	<0.01
CE	13/07/2024	Sunny	Mid-Flood	Moderate	В	20	11:15:00 AM	8.23	8.14	32.13	27.21	1.73	4.00	<0.1	<0.01
CE	13/07/2024	Sunny	Mid-Flood	Moderate	В	20	11:15:00 AM	8.24	8.12	32.09	27.19	1.64	4.00	<0.1	<0.01
CF	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:05:00 AM	8.53	8.05	32.23	27.49	2.48	4.00	<0.1	<0.01
CF	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:05:00 AM	8.40	8.03	32.31	27.47	2.59	4.00	<0.1	<0.01
CF	13/07/2024	Sunny	Mid-Flood	Moderate	М	11	8:06:00 AM	8.50	8.03	32.42	27.44	2.52	4.00	<0.1	<0.01
CF	13/07/2024	Sunny	Mid-Flood	Moderate	М	11	8:06:00 AM	8.41	8.05	32.34	27.44	2.53	5.00	<0.1	<0.01
CF	13/07/2024	Sunny	Mid-Flood	Moderate	В	20	8:07:00 AM	8.54	8.06	32.42	27.44	2.48	6.00	<0.1	<0.01
CF	13/07/2024	Sunny	Mid-Flood	Moderate	В	20	8:07:00 AM	8.51	8.04	32.36	27.47	2.45	6.00	<0.1	<0.01
WSR01	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:31:00 AM	8.15	8.02	31.85	27.43	1.42	4.00	<0.1	<0.01
WSR01	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:31:00 AM	8.16	8.08	31.90	27.50	1.44	6.00	<0.1	<0.01
WSR01	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	8:32:00 AM	8.06	8.03	31.97	27.46	1.43	6.00	<0.1	<0.01
WSR01	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	8:32:00 AM	8.15	8.03	31.82	27.45	1.45	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)
WSR01	13/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:33:00 AM	8.10	8.03	31.91	27.45	1.42	4.00	<0.1	<0.01
WSR01	13/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:33:00 AM	8.10	8.05	31.92	27.46	1.46	4.00	<0.1	<0.01
WSR02	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:50:00 AM	8.56	8.08	31.52	27.44	1.53	5.00	<0.1	<0.01
WSR02	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	8:50:00 AM	8.65	8.08	31.45	27.46	1.53	5.00	<0.1	<0.01
WSR02	13/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:51:00 AM	8.56	8.09	31.44	27.44	1.56	4.00	<0.1	<0.01
WSR02	13/07/2024	Sunny	Mid-Flood	Moderate	М	5	8:51:00 AM	8.58	8.07	31.52	27.51	1.51	4.00	<0.1	<0.01
WSR02	13/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:52:00 AM	8.62	8.08	31.41	27.51	1.52	4.00	<0.1	<0.01
WSR02	13/07/2024	Sunny	Mid-Flood	Moderate	В	8	8:52:00 AM	8.57	8.11	31.49	27.48	1.56	4.00	<0.1	<0.01
WSR03	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:06:00 AM	7.94	8.26	32.02	27.09	1.60	4.00	<0.1	<0.01
WSR03	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:06:00 AM	8.07	8.24	31.85	27.09	1.61	5.00	<0.1	<0.01
WSR03	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:07:00 AM	7.98	8.28	31.91	27.08	1.59	7.00	<0.1	<0.01
WSR03	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:07:00 AM	8.07	8.25	32.01	27.06	1.56	4.00	<0.1	<0.01
WSR03	13/07/2024	Sunny	Mid-Flood	Moderate	В	7	9:08:00 AM	7.99	8.26	31.92	27.09	1.59	6.00	<0.1	<0.01
WSR03	13/07/2024	Sunny	Mid-Flood	Moderate	В	7	9:08:00 AM	7.93	8.28	31.87	27.04	1.58	5.00	<0.1	<0.01
WSR04	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:22:00 AM	8.82	8.15	30.87	27.28	1.66	3.00	<0.1	<0.01
WSR04	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:22:00 AM	8.75	8.14	30.73	27.26	1.67	4.00	<0.1	<0.01
WSR04	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:23:00 AM	8.76	8.12	30.68	27.27	1.65	4.00	<0.1	<0.01
WSR04	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:23:00 AM	8.82	8.11	30.83	27.30	1.72	3.00	<0.1	<0.01
WSR04	13/07/2024	Sunny	Mid-Flood	Moderate	В	7	9:24:00 AM	8.83	8.12	30.72	27.28	1.64	5.00	<0.1	<0.01
WSR04	13/07/2024	Sunny	Mid-Flood	Moderate	В	7	9:24:00 AM	8.81	8.11	30.76	27.23	1.64	4.00	<0.1	<0.01
WSR16	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:52:00 AM	7.91	8.03	30.61	27.19	2.04	5.00	<0.1	<0.01
WSR16	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:52:00 AM	7.86	8.07	30.70	27.22	1.98	5.00	<0.1	<0.01
WSR16	13/07/2024	Sunny	Mid-Flood	Moderate	М	9	10:53:00 AM	7.91	8.09	30.57	27.25	1.93	5.00	<0.1	<0.01
WSR16	13/07/2024	Sunny	Mid-Flood	Moderate	М	9	10:53:00 AM	7.93	8.06	30.60	27.23	1.95	5.00	<0.1	<0.01
WSR16	13/07/2024	Sunny	Mid-Flood	Moderate	В	16	10:54:00 AM	7.96	8.07	30.66	27.27	1.92	3.00	<0.1	<0.01
WSR16	13/07/2024	Sunny	Mid-Flood	Moderate	В	16	10:54:00 AM	7.90	8.03	30.71	27.26	1.90	4.00	<0.1	<0.01
WSR33	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:39:00 AM	8.75	8.06	32.11	27.43	1.67	3.00	<0.1	<0.01
WSR33	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:39:00 AM	8.73	8.08	32.17	27.43	1.63	5.00	<0.1	<0.01
WSR33	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:40:00 AM	8.70	8.07	32.20	27.47	1.65	5.00	<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	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	9:40:00 AM	8.66	8.11	32.15	27.45	1.60	4.00	<0.1	<0.01
WSR33	13/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:41:00 AM	8.63	8.07	32.19	27.50	1.60	5.00	<0.1	<0.01
WSR33	13/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:41:00 AM	8.64	8.11	32.12	27.42	1.61	5.00	<0.1	<0.01
WSR36	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:56:00 AM	8.03	8.25	31.65	27.40	1.34	4.00	<0.1	<0.01
WSR36	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	9:56:00 AM	8.10	8.28	31.56	27.40	1.33	5.00	<0.1	<0.01
WSR36	13/07/2024	Sunny	Mid-Flood	Moderate	М	3	9:57:00 AM	8.14	8.24	31.47	27.45	1.32	3.00	<0.1	<0.01
WSR36	13/07/2024	Sunny	Mid-Flood	Moderate	М	3	9:57:00 AM	8.03	8.23	31.50	27.39	1.28	4.00	<0.1	<0.01
WSR36	13/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:57:00 AM	8.02	8.23	31.61	27.42	1.32	5.00	<0.1	<0.01
WSR36	13/07/2024	Sunny	Mid-Flood	Moderate	В	6	9:57:00 AM	8.12	8.27	31.62	27.37	1.35	5.00	<0.1	<0.01
WSR37	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:13:00 AM	8.52	8.22	31.10	27.26	1.92	5.00	<0.1	<0.01
WSR37	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:13:00 AM	8.48	8.20	31.19	27.26	1.82	4.00	<0.1	<0.01
WSR37	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	10:14:00 AM	8.53	8.23	31.08	27.26	1.85	4.00	<0.1	<0.01
WSR37	13/07/2024	Sunny	Mid-Flood	Moderate	М	4	10:14:00 AM	8.51	8.21	31.14	27.25	1.84	3.00	<0.1	<0.01
WSR37	13/07/2024	Sunny	Mid-Flood	Moderate	В	7	10:15:00 AM	8.49	8.24	31.08	27.30	1.85	4.00	<0.1	<0.01
WSR37	13/07/2024	Sunny	Mid-Flood	Moderate	В	7	10:15:00 AM	8.53	8.26	31.12	27.30	1.85	6.00	<0.1	<0.01
NF1	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:37:00 AM	8.17	8.08	31.44	27.46	1.65	5.00	<0.1	<0.01
NF1	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:37:00 AM	8.17	8.11	31.37	27.53	1.63	6.00	<0.1	<0.01
NF1	13/07/2024	Sunny	Mid-Flood	Moderate	М	7	10:38:00 AM	8.19	8.05	31.46	27.51	1.63	4.00	<0.1	<0.01
NF1	13/07/2024	Sunny	Mid-Flood	Moderate	М	7	10:38:00 AM	8.22	8.07	31.28	27.52	1.66	5.00	<0.1	<0.01
NF1	13/07/2024	Sunny	Mid-Flood	Moderate	В	13	10:39:00 AM	8.19	8.08	31.43	27.45	1.69	6.00	<0.1	<0.01
NF1	13/07/2024	Sunny	Mid-Flood	Moderate	В	13	10:39:00 AM	8.18	8.08	31.41	27.51	1.60	4.00	<0.1	<0.01
NF2	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:29:00 AM	7.75	8.16	32.17	27.42	1.98	4.00	<0.1	<0.01
NF2	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:29:00 AM	7.71	8.16	32.15	27.41	1.96	6.00	<0.1	<0.01
NF2	13/07/2024	Sunny	Mid-Flood	Moderate	М	5	10:30:00 AM	7.65	8.16	32.26	27.41	1.99	2.50	<0.1	<0.01
NF2	13/07/2024	Sunny	Mid-Flood	Moderate	М	5	10:30:00 AM	7.75	8.15	32.25	27.46	2.02	2.50	<0.1	<0.01
NF2	13/07/2024	Sunny	Mid-Flood	Moderate	В	9	10:31:00 AM	7.69	8.19	32.26	27.43	2.02	7.00	<0.1	<0.01
NF2	13/07/2024	Sunny	Mid-Flood	Moderate	В	9	10:31:00 AM	7.75	8.13	32.11	27.41	1.99	6.00	<0.1	<0.01
NF3	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:22:00 AM	8.27	8.27	31.53	27.50	1.51	5.00	<0.1	<0.01
NF3	13/07/2024	Sunny	Mid-Flood	Moderate	S	1	10:22:00 AM	8.27	8.29	31.38	27.49	1.52	4.00	<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)
NF3	13/07/2024	Sunny	Mid-Flood	Moderate	М	6	10:23:00 AM	8.24	8.28	31.38	27.55	1.64	4.00	<0.1	<0.01
NF3	13/07/2024	Sunny	Mid-Flood	Moderate	М	6	10:23:00 AM	8.22	8.29	31.56	27.51	1.63	5.00	<0.1	<0.01
NF3	13/07/2024	Sunny	Mid-Flood	Moderate	В	11	10:24:00 AM	8.17	8.26	31.53	27.48	1.78	5.00	<0.1	<0.01
NF3	13/07/2024	Sunny	Mid-Flood	Moderate	В	11	10:24:00 AM	8.16	8.29	31.48	27.53	1.86	5.00	<0.1	<0.01
CE	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:08:00 AM	8.76	8.07	31.83	27.14	2.89	3.00	<0.1	<0.01
CE	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:08:00 AM	8.74	8.04	31.79	27.11	2.92	3.00	<0.1	<0.01
CE	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:09:00 AM	8.79	8.06	31.79	27.10	2.71	4.00	<0.1	<0.01
CE	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:09:00 AM	8.77	8.04	31.72	27.14	2.79	5.00	<0.1	<0.01
CE	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	22	8:10:00 AM	8.79	8.04	31.79	27.14	2.88	4.00	<0.1	<0.01
CE	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	22	8:10:00 AM	8.74	8.06	31.79	27.12	2.91	3.00	<0.1	<0.01
CF	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:28:00 AM	8.09	8.29	32.45	27.23	2.24	4.00	<0.1	<0.01
CF	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:28:00 AM	8.11	8.27	32.46	27.23	2.33	8.00	<0.1	<0.01
CF	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:29:00 AM	8.08	8.29	32.47	27.29	2.26	4.00	<0.1	<0.01
CF	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:29:00 AM	8.08	8.29	32.49	27.24	2.29	4.00	<0.1	<0.01
CF	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	11:30:00 AM	8.13	8.30	32.50	27.26	2.35	3.00	<0.1	<0.01
CF	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	11:30:00 AM	8.08	8.28	32.44	27.28	2.36	3.00	<0.1	<0.01
WSR01	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:02:00 AM	7.86	8.35	31.64	27.07	1.54	7.00	<0.1	<0.01
WSR01	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:02:00 AM	7.87	8.34	31.64	27.07	1.59	7.00	<0.1	<0.01
WSR01	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:03:00 AM	7.86	8.31	31.64	27.08	1.53	6.00	<0.1	<0.01
WSR01	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:03:00 AM	7.88	8.34	31.73	27.08	1.57	8.00	<0.1	<0.01
WSR01	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:04:00 AM	7.88	8.32	31.69	27.07	1.53	4.00	<0.1	<0.01
WSR01	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:04:00 AM	7.86	8.35	31.67	27.06	1.56	4.00	<0.1	<0.01
WSR02	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:41:00 AM	8.22	8.18	32.21	27.07	1.33	3.00	<0.1	<0.01
WSR02	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:41:00 AM	8.24	8.16	32.21	27.09	1.34	5.00	<0.1	<0.01
WSR02	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:42:00 AM	8.23	8.16	32.22	27.09	1.34	6.00	<0.1	<0.01
WSR02	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:42:00 AM	8.24	8.18	32.19	27.12	1.38	7.00	<0.1	<0.01
WSR02	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:43:00 AM	8.24	8.18	32.20	27.13	1.37	6.00	<0.1	<0.01
WSR02	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:43:00 AM	8.22	8.17	32.17	27.08	1.38	6.00	<0.1	<0.01
WSR03	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:23:00 AM	8.78	8.16	32.09	26.99	1.91	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)
WSR03	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:23:00 AM	8.77	8.17	32.13	26.98	1.91	4.00	<0.1	<0.01
WSR03	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:24:00 AM	8.77	8.18	32.08	27.02	1.93	6.00	<0.1	<0.01
WSR03	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:24:00 AM	8.78	8.18	32.04	26.99	1.89	9.00	<0.1	<0.01
WSR03	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:25:00 AM	8.74	8.15	32.12	27.03	1.93	4.00	<0.1	<0.01
WSR03	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:25:00 AM	8.76	8.15	32.15	27.00	1.87	4.00	<0.1	<0.01
WSR04	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:08:00 AM	8.37	8.10	32.12	26.97	2.10	4.00	<0.1	<0.01
WSR04	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:08:00 AM	8.32	8.10	32.12	26.96	2.16	3.00	<0.1	<0.01
WSR04	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:09:00 AM	8.37	8.10	32.04	26.98	2.16	4.00	<0.1	<0.01
WSR04	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:09:00 AM	8.36	8.11	32.08	26.98	2.08	6.00	<0.1	<0.01
WSR04	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:10:00 AM	8.37	8.11	32.04	26.94	2.13	5.00	<0.1	<0.01
WSR04	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:10:00 AM	8.32	8.12	32.01	26.96	2.10	4.00	<0.1	<0.01
WSR16	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:33:00 AM	8.38	8.16	31.12	27.24	1.50	4.00	<0.1	<0.01
WSR16	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:33:00 AM	8.44	8.14	31.19	27.28	1.46	5.00	<0.1	<0.01
WSR16	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	8:34:00 AM	8.38	8.16	31.25	27.26	1.52	4.00	<0.1	<0.01
WSR16	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	8:34:00 AM	8.44	8.18	31.23	27.27	1.49	4.00	<0.1	<0.01
WSR16	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	15	8:35:00 AM	8.43	8.18	31.15	27.28	1.51	7.00	<0.1	<0.01
WSR16	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	15	8:35:00 AM	8.41	8.18	31.23	27.27	1.52	8.00	<0.1	<0.01
WSR33	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:51:00 AM	8.33	8.29	30.92	26.93	1.52	5.00	<0.1	<0.01
WSR33	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:51:00 AM	8.32	8.25	30.98	26.94	1.52	5.00	<0.1	<0.01
WSR33	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:52:00 AM	8.29	8.29	31.00	26.91	1.54	4.00	<0.1	<0.01
WSR33	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:52:00 AM	8.32	8.28	30.96	26.93	1.52	5.00	<0.1	<0.01
WSR33	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:53:00 AM	8.29	8.26	30.95	26.91	1.58	6.00	<0.1	<0.01
WSR33	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:53:00 AM	8.33	8.28	31.01	26.93	1.60	5.00	<0.1	<0.01
WSR36	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:35:00 AM	7.88	8.22	31.15	26.83	1.74	5.00	<0.1	<0.01
WSR36	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:35:00 AM	7.88	8.19	31.20	26.86	1.78	5.00	<0.1	<0.01
WSR36	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	3	9:36:00 AM	7.85	8.21	31.12	26.88	1.74	3.00	<0.1	<0.01
WSR36	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	3	9:36:00 AM	7.84	8.22	31.23	26.82	1.73	5.00	<0.1	<0.01
WSR36	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:36:00 AM	7.87	8.18	31.14	26.83	1.72	3.00	<0.1	<0.01
WSR36	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:36:00 AM	7.83	8.19	31.18	26.82	1.79	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)
WSR37	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:29:00 AM	8.81	8.13	32.39	26.88	1.96	9.00	<0.1	<0.01
WSR37	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:29:00 AM	8.75	8.12	32.41	26.87	1.92	8.00	<0.1	<0.01
WSR37	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:30:00 AM	8.81	8.10	32.39	26.88	1.90	5.00	<0.1	<0.01
WSR37	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:30:00 AM	8.75	8.10	32.34	26.87	1.98	3.00	<0.1	<0.01
WSR37	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:31:00 AM	8.79	8.11	32.28	26.87	1.96	5.00	<0.1	<0.01
WSR37	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:31:00 AM	8.77	8.12	32.39	26.85	1.93	8.00	<0.1	<0.01
NF1	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:57:00 AM	8.55	8.23	32.16	27.00	2.07	4.00	<0.1	<0.01
NF1	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:57:00 AM	8.55	8.25	32.20	26.96	2.02	5.00	<0.1	<0.01
NF1	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	8:58:00 AM	8.54	8.24	32.12	27.01	1.99	6.00	<0.1	<0.01
NF1	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	8:58:00 AM	8.60	8.24	32.21	27.02	1.97	6.00	<0.1	<0.01
NF1	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	12	8:59:00 AM	8.55	8.24	32.20	27.01	1.94	5.00	<0.1	<0.01
NF1	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	12	8:59:00 AM	8.55	8.22	32.13	26.98	1.92	5.00	<0.1	<0.01
NF2	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:14:00 AM	8.22	8.18	32.47	27.16	1.91	6.00	<0.1	<0.01
NF2	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:14:00 AM	8.23	8.19	32.46	27.12	1.87	6.00	<0.1	<0.01
NF2	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:15:00 AM	8.17	8.22	32.45	27.11	1.83	5.00	<0.1	<0.01
NF2	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:15:00 AM	8.17	8.20	32.54	27.10	1.91	4.00	<0.1	<0.01
NF2	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	10	9:16:00 AM	8.19	8.21	32.44	27.16	1.85	5.00	<0.1	<0.01
NF2	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	10	9:16:00 AM	8.17	8.21	32.46	27.13	1.86	4.00	<0.1	<0.01
NF3	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:22:00 AM	8.74	8.27	31.41	26.94	1.82	7.00	<0.1	<0.01
NF3	16/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:22:00 AM	8.76	8.28	31.45	26.95	1.82	8.00	<0.1	<0.01
NF3	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:23:00 AM	8.72	8.26	31.49	26.95	1.84	8.00	<0.1	<0.01
NF3	16/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:23:00 AM	8.74	8.28	31.41	26.94	1.86	6.00	<0.1	<0.01
NF3	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	9:24:00 AM	8.73	8.28	31.39	26.97	1.81	6.00	<0.1	<0.01
NF3	16/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	9:24:00 AM	8.73	8.29	31.43	26.91	1.89	6.00	<0.1	<0.01
CE	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:25:00 AM	8.78	8.27	32.83	26.61	2.84	4.00	<0.1	<0.01
CE	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:25:00 AM	8.86	8.25	32.77	26.60	2.81	4.00	<0.1	<0.01
CE	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:26:00 AM	8.79	8.24	32.83	26.61	2.83	3.00	<0.1	<0.01
CE	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	8:26:00 AM	8.78	8.23	32.83	26.54	2.83	6.00	<0.1	<0.01
CE	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	8:27:00 AM	8.80	8.25	32.79	26.56	2.82	5.00	<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)
CE	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	8:27:00 AM	8.82	8.28	32.83	26.53	2.79	3.00	<0.1	<0.01
CF	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:36:00 AM	7.87	8.35	31.95	26.64	2.34	5.00	<0.1	<0.01
CF	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:36:00 AM	7.94	8.34	31.95	26.70	2.38	3.00	<0.1	<0.01
CF	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:37:00 AM	7.90	8.32	31.98	26.63	2.36	3.00	<0.1	<0.01
CF	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:37:00 AM	7.83	8.36	31.95	26.69	2.41	4.00	<0.1	<0.01
CF	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	11:38:00 AM	7.83	8.36	32.02	26.64	2.53	6.00	<0.1	<0.01
CF	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	11:38:00 AM	7.86	8.33	31.97	26.62	2.55	4.00	<0.1	<0.01
WSR01	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:16:00 AM	7.76	8.37	31.52	26.67	1.64	2.50	<0.1	<0.01
WSR01	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:16:00 AM	7.81	8.41	31.52	26.68	1.65	4.00	<0.1	<0.01
WSR01	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:17:00 AM	7.72	8.41	31.48	26.74	1.64	4.00	<0.1	<0.01
WSR01	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:17:00 AM	7.72	8.40	31.43	26.72	1.67	6.00	<0.1	<0.01
WSR01	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:18:00 AM	7.84	8.39	31.52	26.69	1.63	4.00	<0.1	<0.01
WSR01	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	11:18:00 AM	7.73	8.37	31.52	26.70	1.64	4.00	<0.1	<0.01
WSR02	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:55:00 AM	8.39	8.16	32.37	26.82	1.30	3.00	<0.1	<0.01
WSR02	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:55:00 AM	8.34	8.20	32.41	26.86	1.32	4.00	<0.1	<0.01
WSR02	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:56:00 AM	8.36	8.16	32.36	26.78	1.34	3.00	<0.1	<0.01
WSR02	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:56:00 AM	8.28	8.15	32.37	26.83	1.32	4.00	<0.1	<0.01
WSR02	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	10:57:00 AM	8.28	8.15	32.39	26.86	1.30	4.00	<0.1	<0.01
WSR02	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	10:57:00 AM	8.34	8.18	32.38	26.85	1.33	7.00	<0.1	<0.01
WSR03	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:39:00 AM	8.76	8.39	31.90	26.68	1.42	5.00	<0.1	<0.01
WSR03	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:39:00 AM	8.80	8.35	31.84	26.68	1.41	7.00	<0.1	<0.01
WSR03	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:40:00 AM	8.76	8.37	31.93	26.71	1.38	6.00	<0.1	<0.01
WSR03	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:40:00 AM	8.77	8.34	31.84	26.75	1.39	7.00	<0.1	<0.01
WSR03	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:41:00 AM	8.75	8.39	31.91	26.68	1.42	5.00	<0.1	<0.01
WSR03	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:41:00 AM	8.68	8.35	31.91	26.67	1.43	5.00	<0.1	<0.01
WSR04	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:24:00 AM	8.58	8.22	32.38	26.62	1.91	5.00	<0.1	<0.01
WSR04	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:24:00 AM	8.50	8.19	32.39	26.70	1.94	5.00	<0.1	<0.01
WSR04	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:25:00 AM	8.50	8.23	32.30	26.62	1.88	5.00	<0.1	<0.01
WSR04	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:25:00 AM	8.49	8.23	32.38	26.64	1.93	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)
WSR04	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:26:00 AM	8.56	8.20	32.36	26.69	1.92	5.00	<0.1	<0.01
WSR04	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:26:00 AM	8.56	8.23	32.40	26.61	1.89	5.00	<0.1	<0.01
WSR16	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:47:00 AM	8.09	8.36	31.48	26.64	1.30	4.00	<0.1	<0.01
WSR16	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:47:00 AM	8.12	8.37	31.49	26.67	1.46	4.00	<0.1	<0.01
WSR16	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	8:48:00 AM	8.06	8.38	31.40	26.69	1.44	5.00	<0.1	<0.01
WSR16	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	8:48:00 AM	8.07	8.35	31.47	26.64	1.30	6.00	<0.1	<0.01
WSR16	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	14	8:49:00 AM	8.06	8.34	31.45	26.67	1.30	7.00	<0.1	<0.01
WSR16	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	14	8:49:00 AM	8.11	8.39	31.41	26.71	1.46	6.00	<0.1	<0.01
WSR33	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:09:00 AM	8.59	8.32	32.63	26.60	1.35	6.00	<0.1	<0.01
WSR33	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:09:00 AM	8.58	8.34	32.57	26.63	1.34	5.00	<0.1	<0.01
WSR33	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:10:00 AM	8.55	8.30	32.62	26.64	1.35	4.00	<0.1	<0.01
WSR33	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:10:00 AM	8.55	8.35	32.59	26.63	1.34	6.00	<0.1	<0.01
WSR33	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:11:00 AM	8.55	8.34	32.65	26.61	1.40	6.00	<0.1	<0.01
WSR33	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:11:00 AM	8.59	8.35	32.60	26.65	1.38	8.00	<0.1	<0.01
WSR36	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:53:00 AM	7.63	8.44	32.29	26.50	1.46	8.00	<0.1	<0.01
WSR36	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:53:00 AM	7.68	8.44	32.33	26.46	1.46	8.00	<0.1	<0.01
WSR36	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	3	9:54:00 AM	7.65	8.43	32.36	26.48	1.47	7.00	<0.1	<0.01
WSR36	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	3	9:54:00 AM	7.68	8.41	32.38	26.52	1.33	5.00	<0.1	<0.01
WSR36	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:54:00 AM	7.63	8.44	32.31	26.46	1.35	6.00	<0.1	<0.01
WSR36	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:54:00 AM	7.72	8.41	32.36	26.44	1.41	9.00	<0.1	<0.01
WSR37	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:45:00 AM	7.97	8.27	32.73	26.68	1.63	5.00	<0.1	<0.01
WSR37	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:45:00 AM	7.93	8.28	32.71	26.72	1.59	5.00	<0.1	<0.01
WSR37	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:46:00 AM	7.96	8.30	32.67	26.76	1.64	6.00	<0.1	<0.01
WSR37	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:46:00 AM	8.01	8.29	32.65	26.69	1.65	5.00	<0.1	<0.01
WSR37	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:47:00 AM	7.96	8.32	32.66	26.76	1.64	8.00	<0.1	<0.01
WSR37	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:47:00 AM	8.03	8.27	32.68	26.76	1.63	6.00	<0.1	<0.01
NF1	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:11:00 AM	7.70	8.32	32.41	26.51	2.07	6.00	<0.1	<0.01
NF1	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:11:00 AM	7.70	8.31	32.34	26.48	2.12	6.00	<0.1	<0.01
NF1	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	9:12:00 AM	7.70	8.34	32.41	26.50	2.09	5.00	<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)
NF1	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	9:12:00 AM	7.80	8.29	32.41	26.48	2.12	5.00	<0.1	<0.01
NF1	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	9:13:00 AM	7.77	8.34	32.41	26.47	2.11	6.00	<0.1	<0.01
NF1	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	9:13:00 AM	7.69	8.32	32.41	26.43	2.14	5.00	<0.1	<0.01
NF2	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:28:00 AM	8.15	8.26	32.33	26.68	2.10	5.00	<0.1	<0.01
NF2	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:28:00 AM	8.08	8.23	32.33	26.63	2.12	8.00	<0.1	<0.01
NF2	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:29:00 AM	8.12	8.22	32.28	26.63	2.13	5.00	<0.1	<0.01
NF2	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:29:00 AM	8.10	8.21	32.28	26.69	2.12	5.00	<0.1	<0.01
NF2	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:30:00 AM	8.17	8.26	32.26	26.71	2.12	6.00	<0.1	<0.01
NF2	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:30:00 AM	8.05	8.24	32.26	26.69	2.14	6.00	<0.1	<0.01
NF3	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:36:00 AM	8.64	8.34	32.22	26.86	1.73	7.00	<0.1	<0.01
NF3	18/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:36:00 AM	8.64	8.30	32.23	26.79	1.72	6.00	<0.1	<0.01
NF3	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:37:00 AM	8.62	8.32	32.17	26.79	1.72	8.00	<0.1	<0.01
NF3	18/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:37:00 AM	8.63	8.34	32.23	26.84	1.72	7.00	<0.1	<0.01
NF3	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	9:38:00 AM	8.62	8.31	32.25	26.88	1.68	6.00	<0.1	<0.01
NF3	18/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	9:38:00 AM	8.54	8.32	32.22	26.79	1.70	5.00	<0.1	<0.01
CE	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:30:00 AM	7.98	8.16	31.46	27.62	2.64	3.00	<0.1	<0.01
CE	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:30:00 AM	8.02	8.18	31.46	27.60	2.62	3.00	<0.1	<0.01
CE	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	9:31:00 AM	8.04	8.17	31.38	27.58	2.59	3.00	<0.1	<0.01
CE	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	9:31:00 AM	7.97	8.19	31.48	27.58	2.58	2.50	<0.1	<0.01
CE	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	19	9:32:00 AM	8.00	8.17	31.43	27.58	2.58	6.00	<0.1	<0.01
CE	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	19	9:32:00 AM	8.01	8.14	31.40	27.62	2.58	4.00	<0.1	<0.01
CF	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:38:00 PM	8.69	8.01	30.34	27.37	2.43	3.00	<0.1	<0.01
CF	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:38:00 PM	8.61	8.03	30.36	27.40	2.44	3.00	<0.1	<0.01
CF	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	12:39:00 PM	8.62	8.01	30.50	27.35	2.45	3.00	<0.1	<0.01
CF	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	12:39:00 PM	8.59	8.04	30.49	27.40	2.46	2.50	<0.1	<0.01
CF	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	20	12:40:00 PM	8.64	8.06	30.35	27.36	2.41	3.00	<0.1	<0.01
CF	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	20	12:40:00 PM	8.68	8.01	30.34	27.38	2.43	2.50	<0.1	<0.01
WSR01	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:16:00 PM	9.01	8.15	30.66	27.57	1.88	4.00	<0.1	<0.01
WSR01	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:16:00 PM	8.93	8.12	30.62	27.57	1.85	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)
WSR01	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:17:00 PM	8.98	8.08	30.55	27.60	1.91	2.50	<0.1	<0.01
WSR01	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:17:00 PM	9.00	8.08	30.61	27.57	1.90	2.50	<0.1	<0.01
WSR01	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:18:00 PM	8.96	8.09	30.62	27.57	1.85	2.50	<0.1	<0.01
WSR01	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:18:00 PM	8.95	8.13	30.56	27.61	1.89	2.50	<0.1	<0.01
WSR02	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:59:00 AM	8.78	8.12	31.30	27.40	2.02	2.50	<0.1	<0.01
WSR02	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:59:00 AM	8.75	8.11	31.38	27.36	2.06	2.50	<0.1	<0.01
WSR02	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:00:00 PM	8.73	8.09	31.39	27.39	2.06	2.50	<0.1	<0.01
WSR02	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:00:00 PM	8.79	8.06	31.21	27.39	2.02	2.50	<0.1	<0.01
WSR02	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:01:00 PM	8.81	8.11	31.25	27.35	2.05	4.00	<0.1	<0.01
WSR02	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	12:01:00 PM	8.76	8.05	31.34	27.41	2.02	4.00	<0.1	<0.01
WSR03	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:41:00 AM	8.36	8.02	31.19	27.48	1.31	2.50	<0.1	<0.01
WSR03	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:41:00 AM	8.35	8.08	31.23	27.47	1.30	4.00	<0.1	<0.01
WSR03	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:42:00 AM	8.43	8.03	31.21	27.44	1.32	3.00	<0.1	<0.01
WSR03	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:42:00 AM	8.41	8.05	31.19	27.46	1.31	3.00	<0.1	<0.01
WSR03	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:43:00 AM	8.46	8.10	31.08	27.42	1.30	3.00	<0.1	<0.01
WSR03	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:43:00 AM	8.39	8.04	31.18	27.43	1.30	2.50	<0.1	<0.01
WSR04	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:29:00 AM	8.27	7.99	31.29	27.29	2.07	2.50	<0.1	<0.01
WSR04	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:29:00 AM	8.25	8.04	31.31	27.29	2.06	3.00	<0.1	<0.01
WSR04	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:30:00 AM	8.23	8.01	31.34	27.30	2.01	2.50	<0.1	<0.01
WSR04	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:30:00 AM	8.22	8.05	31.38	27.28	1.96	3.00	<0.1	<0.01
WSR04	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:31:00 AM	8.19	8.04	31.33	27.28	1.95	2.50	<0.1	<0.01
WSR04	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	11:31:00 AM	8.23	7.99	31.45	27.28	1.92	3.00	<0.1	<0.01
WSR16	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:53:00 AM	8.11	8.25	30.43	27.27	2.09	2.50	<0.1	<0.01
WSR16	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:53:00 AM	8.13	8.29	30.42	27.29	2.13	2.50	<0.1	<0.01
WSR16	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	9:54:00 AM	8.06	8.25	30.33	27.29	2.15	2.50	<0.1	<0.01
WSR16	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	9:54:00 AM	8.13	8.23	30.30	27.32	2.13	2.50	<0.1	<0.01
WSR16	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	15	9:55:00 AM	8.18	8.23	30.31	27.29	2.12	2.50	<0.1	<0.01
WSR16	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	15	9:55:00 AM	8.14	8.24	30.36	27.28	2.14	2.50	<0.1	<0.01
WSR33	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:14:00 AM	8.54	8.27	30.40	27.27	1.62	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)
WSR33	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:14:00 AM	8.55	8.27	30.43	27.28	1.64	2.50	<0.1	<0.01
WSR33	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:15:00 AM	8.60	8.24	30.38	27.31	1.61	2.50	<0.1	<0.01
WSR33	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	11:15:00 AM	8.55	8.30	30.31	27.31	1.64	3.00	<0.1	<0.01
WSR33	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	11:16:00 AM	8.59	8.24	30.45	27.28	1.62	2.50	<0.1	<0.01
WSR33	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	11:16:00 AM	8.54	8.26	30.36	27.31	1.63	2.50	<0.1	<0.01
WSR36	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:58:00 AM	8.89	8.02	31.36	27.54	1.96	2.50	<0.1	<0.01
WSR36	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:58:00 AM	8.86	8.00	31.41	27.49	1.92	3.00	<0.1	<0.01
WSR36	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:59:00 AM	8.81	8.00	31.29	27.54	1.97	2.50	<0.1	<0.01
WSR36	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:59:00 AM	8.83	8.03	31.31	27.54	1.91	3.00	<0.1	<0.01
WSR36	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:59:00 AM	8.91	8.06	31.26	27.52	1.98	2.50	<0.1	<0.01
WSR36	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:59:00 AM	8.89	8.07	31.35	27.49	1.98	2.50	<0.1	<0.01
WSR37	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:49:00 AM	8.65	8.21	30.84	27.36	1.48	4.00	<0.1	<0.01
WSR37	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:49:00 AM	8.74	8.14	30.93	27.35	1.51	2.50	<0.1	<0.01
WSR37	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:50:00 AM	8.63	8.21	30.79	27.34	1.54	2.50	<0.1	<0.01
WSR37	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:50:00 AM	8.67	8.19	30.95	27.33	1.51	5.00	<0.1	<0.01
WSR37	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:51:00 AM	8.68	8.14	30.93	27.34	1.49	3.00	<0.1	<0.01
WSR37	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:51:00 AM	8.70	8.19	30.95	27.35	1.52	2.50	<0.1	<0.01
NF1	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:17:00 AM	8.13	8.26	31.50	27.27	1.95	5.00	<0.1	<0.01
NF1	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:17:00 AM	8.17	8.31	31.34	27.29	1.91	6.00	<0.1	<0.01
NF1	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	10:18:00 AM	8.24	8.28	31.39	27.28	1.91	3.00	<0.1	<0.01
NF1	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	10:18:00 AM	8.13	8.30	31.40	27.31	1.93	3.00	<0.1	<0.01
NF1	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	10:19:00 AM	8.22	8.26	31.49	27.25	1.89	6.00	<0.1	<0.01
NF1	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	10:19:00 AM	8.16	8.27	31.49	27.27	1.91	6.00	<0.1	<0.01
NF2	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:34:00 AM	8.87	8.05	31.38	27.69	1.56	3.00	<0.1	<0.01
NF2	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:34:00 AM	8.86	8.10	31.45	27.67	1.60	2.50	<0.1	<0.01
NF2	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:35:00 AM	8.97	8.03	31.42	27.70	1.58	4.00	<0.1	<0.01
NF2	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:35:00 AM	8.88	8.07	31.31	27.70	1.61	2.50	<0.1	<0.01
NF2	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	10	10:36:00 AM	8.98	8.02	31.37	27.71	1.62	4.00	<0.1	<0.01
NF2	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	10	10:36:00 AM	8.98	8.05	31.42	27.71	1.59	4.00	<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)
NF3	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:42:00 AM	8.90	8.26	30.88	27.40	2.16	3.00	<0.1	<0.01
NF3	20/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:42:00 AM	9.02	8.24	31.05	27.43	2.11	3.00	<0.1	<0.01
NF3	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	10:43:00 AM	8.92	8.28	30.95	27.43	1.99	3.00	<0.1	<0.01
NF3	20/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	10:43:00 AM	8.92	8.22	30.88	27.39	2.17	3.00	<0.1	<0.01
NF3	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:44:00 AM	9.02	8.24	30.90	27.42	1.93	2.50	<0.1	<0.01
NF3	20/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:44:00 AM	9.00	8.29	30.86	27.41	2.12	3.00	<0.1	<0.01
CE	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:04:00 AM	8.41	8.15	31.97	27.00	2.64	4.00	<0.1	<0.01
CE	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:04:00 AM	8.36	8.12	31.95	27.00	2.62	4.00	<0.1	<0.01
CE	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:05:00 AM	8.38	8.10	31.87	27.06	2.51	3.00	<0.1	<0.01
CE	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	11:05:00 AM	8.35	8.16	31.87	27.01	2.58	4.00	<0.1	<0.01
CE	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	11:06:00 AM	8.42	8.11	31.82	26.97	2.43	5.00	<0.1	<0.01
CE	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	11:06:00 AM	8.35	8.12	31.88	27.03	2.44	4.00	<0.1	<0.01
CF	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	2:14:00 PM	7.78	8.13	31.92	27.02	2.12	2.50	<0.1	<0.01
CF	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	2:14:00 PM	7.75	8.07	32.05	27.08	2.14	4.00	<0.1	<0.01
CF	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	2:15:00 PM	7.75	8.11	32.02	27.11	2.17	3.00	<0.1	<0.01
CF	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	11	2:15:00 PM	7.75	8.09	32.03	27.03	2.12	3.00	<0.1	<0.01
CF	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	2:16:00 PM	7.80	8.08	32.04	27.01	2.17	3.00	<0.1	<0.01
CF	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	21	2:16:00 PM	7.79	8.09	32.07	27.01	2.14	5.00	<0.1	<0.01
WSR01	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:50:00 PM	8.75	8.17	31.43	27.22	2.01	4.00	<0.1	<0.01
WSR01	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:50:00 PM	8.83	8.19	31.40	27.14	2.04	4.00	<0.1	<0.01
WSR01	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	1:51:00 PM	8.78	8.21	31.36	27.25	1.93	2.50	<0.1	<0.01
WSR01	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	1:51:00 PM	8.83	8.16	31.36	27.22	1.95	4.00	<0.1	<0.01
WSR01	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:52:00 PM	8.77	8.19	31.41	27.16	1.92	4.00	<0.1	<0.01
WSR01	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	1:52:00 PM	8.77	8.17	31.36	27.22	1.92	5.00	<0.1	<0.01
WSR02	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:32:00 PM	8.17	8.34	32.62	27.06	1.35	3.00	<0.1	<0.01
WSR02	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:32:00 PM	8.12	8.29	32.53	27.06	1.35	6.00	<0.1	<0.01
WSR02	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	1:33:00 PM	8.17	8.35	32.59	27.09	1.32	3.00	<0.1	<0.01
WSR02	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	1:33:00 PM	8.13	8.29	32.60	27.12	1.61	4.00	<0.1	<0.01
WSR02	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	1:34:00 PM	8.14	8.29	32.50	27.12	1.32	5.00	<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)
WSR02	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	1:34:00 PM	8.13	8.35	32.57	27.12	1.36	3.00	<0.1	<0.01
WSR03	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:16:00 PM	8.17	8.30	32.25	27.11	1.56	5.00	<0.1	<0.01
WSR03	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:16:00 PM	8.15	8.34	32.31	27.03	1.57	4.00	<0.1	<0.01
WSR03	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:17:00 PM	8.22	8.34	32.36	27.06	1.59	5.00	<0.1	<0.01
WSR03	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:17:00 PM	8.21	8.33	32.30	27.10	1.46	3.00	<0.1	<0.01
WSR03	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	1:18:00 PM	8.15	8.32	32.36	27.11	1.49	4.00	<0.1	<0.01
WSR03	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	1:18:00 PM	8.20	8.29	32.36	27.10	1.53	6.00	<0.1	<0.01
WSR04	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:02:00 PM	8.71	8.05	32.39	27.15	2.11	5.00	<0.1	<0.01
WSR04	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	1:02:00 PM	8.71	8.05	32.33	27.11	2.08	4.00	<0.1	<0.01
WSR04	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:03:00 PM	8.71	8.04	32.33	27.09	1.92	5.00	<0.1	<0.01
WSR04	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	1:03:00 PM	8.71	8.06	32.46	27.14	1.95	6.00	<0.1	<0.01
WSR04	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	1:04:00 PM	8.77	8.07	32.44	27.19	2.11	5.00	<0.1	<0.01
WSR04	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	1:04:00 PM	8.71	8.09	32.43	27.17	1.93	3.00	<0.1	<0.01
WSR16	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:27:00 AM	7.75	8.25	31.79	27.00	1.68	4.00	<0.1	<0.01
WSR16	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:27:00 AM	7.81	8.31	31.73	27.04	1.66	6.00	<0.1	<0.01
WSR16	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	11:28:00 AM	7.76	8.26	31.78	27.10	1.68	6.00	<0.1	<0.01
WSR16	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	11:28:00 AM	7.78	8.29	31.74	27.10	1.68	6.00	<0.1	<0.01
WSR16	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	16	11:29:00 AM	7.74	8.27	31.77	27.10	1.63	2.50	<0.1	<0.01
WSR16	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	16	11:29:00 AM	7.82	8.31	31.64	27.04	1.63	4.00	<0.1	<0.01
WSR33	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:45:00 PM	8.62	8.30	32.72	27.23	2.11	3.00	<0.1	<0.01
WSR33	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:45:00 PM	8.57	8.29	32.64	27.19	2.14	6.00	<0.1	<0.01
WSR33	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:46:00 PM	8.59	8.27	32.59	27.23	2.19	3.00	<0.1	<0.01
WSR33	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:46:00 PM	8.57	8.25	32.68	27.17	2.07	4.00	<0.1	<0.01
WSR33	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:47:00 PM	8.55	8.30	32.71	27.25	2.01	5.00	<0.1	<0.01
WSR33	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:47:00 PM	8.55	8.23	32.69	27.24	1.99	6.00	<0.1	<0.01
WSR36	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:29:00 PM	8.83	8.25	32.68	27.18	1.48	5.00	<0.1	<0.01
WSR36	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:29:00 PM	8.79	8.27	32.74	27.24	1.48	5.00	<0.1	<0.01
WSR36	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:30:00 PM	8.83	8.29	32.73	27.25	1.50	3.00	<0.1	<0.01
WSR36	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:30:00 PM	8.78	8.26	32.64	27.26	1.50	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	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:30:00 PM	8.79	8.26	32.65	27.15	1.51	6.00	<0.1	<0.01
WSR36	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:30:00 PM	8.76	8.29	32.72	27.15	1.56	4.00	<0.1	<0.01
WSR37	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:21:00 PM	8.18	8.19	32.13	27.31	1.62	3.00	<0.1	<0.01
WSR37	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:21:00 PM	8.15	8.24	32.02	27.31	1.62	3.00	<0.1	<0.01
WSR37	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:22:00 PM	8.18	8.23	32.04	27.30	1.65	4.00	<0.1	<0.01
WSR37	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:22:00 PM	8.21	8.23	31.98	27.22	1.65	3.00	<0.1	<0.01
WSR37	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:23:00 PM	8.21	8.22	31.98	27.24	1.64	3.00	<0.1	<0.01
WSR37	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	12:23:00 PM	8.20	8.22	32.05	27.29	1.64	4.00	<0.1	<0.01
NF1	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:48:00 AM	8.19	8.27	31.16	27.14	1.75	4.00	<0.1	<0.01
NF1	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:48:00 AM	8.19	8.26	31.19	27.23	1.77	6.00	<0.1	<0.01
NF1	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:49:00 AM	8.23	8.27	31.05	27.21	1.75	5.00	<0.1	<0.01
NF1	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:49:00 AM	8.20	8.32	31.19	27.12	1.77	3.00	<0.1	<0.01
NF1	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:50:00 AM	8.18	8.27	31.11	27.18	1.78	4.00	<0.1	<0.01
NF1	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:50:00 AM	8.20	8.32	31.16	27.19	1.73	3.00	<0.1	<0.01
NF2	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:05:00 PM	8.09	8.20	31.77	27.20	1.40	4.00	<0.1	<0.01
NF2	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:05:00 PM	8.11	8.25	31.85	27.21	1.42	4.00	<0.1	<0.01
NF2	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:06:00 PM	8.16	8.18	31.78	27.22	1.39	2.50	<0.1	<0.01
NF2	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	12:06:00 PM	8.11	8.18	31.73	27.26	1.40	3.00	<0.1	<0.01
NF2	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	12:07:00 PM	8.10	8.20	31.78	27.21	1.42	3.00	<0.1	<0.01
NF2	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	12:07:00 PM	8.09	8.23	31.82	27.18	1.40	3.00	<0.1	<0.01
NF3	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:14:00 PM	8.04	8.17	31.97	27.11	1.92	4.00	<0.1	<0.01
NF3	22/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:14:00 PM	8.01	8.17	31.93	27.18	1.84	3.00	<0.1	<0.01
NF3	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	12:15:00 PM	8.03	8.22	31.98	27.14	1.83	3.00	<0.1	<0.01
NF3	22/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	12:15:00 PM	7.99	8.20	32.01	27.16	1.84	2.50	<0.1	<0.01
NF3	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	12	12:16:00 PM	8.06	8.19	31.94	27.13	1.82	3.00	<0.1	<0.01
NF3	22/07/2024	Cloudy	Mid-Ebb	Moderate	В	12	12:16:00 PM	8.04	8.15	31.95	27.09	1.85	3.00	<0.1	<0.01
СЕ	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:54:00 AM	8.86	8.28	32.49	27.16	2.16	3.00	<0.1	<0.01
CE	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:54:00 AM	8.84	8.27	32.48	27.19	2.13	2.50	<0.1	<0.01
CE	24/07/2024	Cloudy	Mid-Flood	Moderate	М	12	10:55:00 AM	8.84	8.33	32.50	27.19	2.13	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)
CE	24/07/2024	Cloudy	Mid-Flood	Moderate	М	12	10:55:00 AM	8.85	8.33	32.47	27.17	2.13	3.00	<0.1	<0.01
CE	24/07/2024	Cloudy	Mid-Flood	Moderate	В	23	10:56:00 AM	8.84	8.33	32.51	27.16	2.15	2.50	<0.1	<0.01
CE	24/07/2024	Cloudy	Mid-Flood	Moderate	В	23	10:56:00 AM	8.89	8.28	32.53	27.18	2.17	2.50	<0.1	<0.01
CF	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.13	8.07	32.26	27.12	2.40	2.50	<0.1	<0.01
CF	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:00:00 AM	8.10	8.07	32.26	27.11	2.38	4.00	<0.1	<0.01
CF	24/07/2024	Cloudy	Mid-Flood	Moderate	М	11	8:01:00 AM	8.16	8.07	32.33	27.06	2.41	2.50	<0.1	<0.01
CF	24/07/2024	Cloudy	Mid-Flood	Moderate	М	11	8:01:00 AM	8.16	8.10	32.33	27.10	2.43	2.50	<0.1	<0.01
CF	24/07/2024	Cloudy	Mid-Flood	Moderate	В	21	8:02:00 AM	8.15	8.13	32.38	27.07	2.41	3.00	<0.1	<0.01
CF	24/07/2024	Cloudy	Mid-Flood	Moderate	В	21	8:02:00 AM	8.16	8.08	32.29	27.13	2.44	4.00	<0.1	<0.01
WSR01	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:23:00 AM	9.00	8.19	32.98	27.23	1.61	5.00	<0.1	<0.01
WSR01	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:23:00 AM	8.93	8.13	33.05	27.19	1.59	2.50	<0.1	<0.01
WSR01	24/07/2024	Cloudy	Mid-Flood	Moderate	М	5	8:24:00 AM	8.99	8.17	32.97	27.24	1.64	4.00	<0.1	<0.01
WSR01	24/07/2024	Cloudy	Mid-Flood	Moderate	М	5	8:24:00 AM	8.97	8.20	33.01	27.23	1.59	3.00	<0.1	<0.01
WSR01	24/07/2024	Cloudy	Mid-Flood	Moderate	В	8	8:25:00 AM	8.96	8.20	33.05	27.21	1.64	2.50	<0.1	<0.01
WSR01	24/07/2024	Cloudy	Mid-Flood	Moderate	В	8	8:25:00 AM	9.00	8.20	33.01	27.21	1.62	2.50	<0.1	<0.01
WSR02	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:41:00 AM	8.83	8.18	32.45	27.21	1.89	2.50	<0.1	<0.01
WSR02	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:41:00 AM	8.86	8.21	32.44	27.26	1.87	2.50	<0.1	<0.01
WSR02	24/07/2024	Cloudy	Mid-Flood	Moderate	М	5	8:42:00 AM	8.90	8.22	32.46	27.23	1.88	2.50	<0.1	<0.01
WSR02	24/07/2024	Cloudy	Mid-Flood	Moderate	М	5	8:42:00 AM	8.83	8.23	32.48	27.27	1.85	3.00	<0.1	<0.01
WSR02	24/07/2024	Cloudy	Mid-Flood	Moderate	В	8	8:43:00 AM	8.86	8.19	32.44	27.23	1.88	4.00	<0.1	<0.01
WSR02	24/07/2024	Cloudy	Mid-Flood	Moderate	В	8	8:43:00 AM	8.87	8.24	32.41	27.27	1.90	2.50	<0.1	<0.01
WSR03	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:55:00 AM	8.16	8.31	31.77	27.20	1.60	4.00	<0.1	<0.01
WSR03	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	8:55:00 AM	8.16	8.26	31.84	27.26	1.60	3.00	<0.1	<0.01
WSR03	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	8:56:00 AM	8.15	8.24	31.80	27.26	1.59	3.00	<0.1	<0.01
WSR03	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	8:56:00 AM	8.16	8.29	31.89	27.27	1.59	3.00	<0.1	<0.01
WSR03	24/07/2024	Cloudy	Mid-Flood	Moderate	В	7	8:57:00 AM	8.18	8.25	31.78	27.21	1.55	2.50	<0.1	<0.01
WSR03	24/07/2024	Cloudy	Mid-Flood	Moderate	В	7	8:57:00 AM	8.14	8.30	31.80	27.26	1.57	3.00	<0.1	<0.01
WSR04	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:09:00 AM	8.04	8.03	32.34	27.33	1.67	2.50	<0.1	<0.01
WSR04	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:09:00 AM	8.03	8.06	32.34	27.33	1.69	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)
WSR04	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:10:00 AM	8.04	8.09	32.35	27.33	1.66	2.50	<0.1	<0.01
WSR04	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:10:00 AM	8.09	8.04	32.32	27.30	1.66	2.50	<0.1	<0.01
WSR04	24/07/2024	Cloudy	Mid-Flood	Moderate	В	6	9:11:00 AM	8.03	8.09	32.32	27.34	1.68	3.00	<0.1	<0.01
WSR04	24/07/2024	Cloudy	Mid-Flood	Moderate	В	6	9:11:00 AM	8.10	8.09	32.32	27.35	1.72	4.00	<0.1	<0.01
WSR16	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:32:00 AM	7.99	8.19	32.31	27.46	1.93	2.50	<0.1	<0.01
WSR16	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:32:00 AM	7.98	8.17	32.28	27.46	1.93	2.50	<0.1	<0.01
WSR16	24/07/2024	Cloudy	Mid-Flood	Moderate	М	9	10:33:00 AM	7.97	8.21	32.31	27.44	1.95	3.00	<0.1	<0.01
WSR16	24/07/2024	Cloudy	Mid-Flood	Moderate	М	9	10:33:00 AM	7.94	8.19	32.28	27.44	1.92	2.50	<0.1	<0.01
WSR16	24/07/2024	Cloudy	Mid-Flood	Moderate	В	16	10:34:00 AM	7.97	8.19	32.40	27.51	1.92	4.00	<0.1	<0.01
WSR16	24/07/2024	Cloudy	Mid-Flood	Moderate	В	16	10:34:00 AM	7.97	8.23	32.39	27.44	1.94	4.00	<0.1	<0.01
WSR33	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:24:00 AM	8.88	8.20	31.84	27.06	2.08	3.00	<0.1	<0.01
WSR33	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:24:00 AM	8.92	8.20	31.89	27.09	2.01	4.00	<0.1	<0.01
WSR33	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:25:00 AM	8.87	8.25	31.84	27.04	1.93	4.00	<0.1	<0.01
WSR33	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:25:00 AM	8.85	8.23	31.87	27.04	1.99	4.00	<0.1	<0.01
WSR33	24/07/2024	Cloudy	Mid-Flood	Moderate	В	6	9:26:00 AM	8.85	8.20	31.81	27.07	1.93	2.50	<0.1	<0.01
WSR33	24/07/2024	Cloudy	Mid-Flood	Moderate	В	6	9:26:00 AM	8.87	8.24	31.80	27.06	1.94	2.50	<0.1	<0.01
WSR36	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:38:00 AM	8.13	8.08	32.33	27.06	1.56	3.00	<0.1	<0.01
WSR36	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:38:00 AM	8.09	8.04	32.28	27.02	1.58	2.50	<0.1	<0.01
WSR36	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:39:00 AM	8.14	8.12	32.28	27.02	1.60	3.00	<0.1	<0.01
WSR36	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:39:00 AM	8.12	8.10	32.32	27.05	1.60	3.00	<0.1	<0.01
WSR36	24/07/2024	Cloudy	Mid-Flood	Moderate	В	7	9:39:00 AM	8.15	8.11	32.36	27.02	1.57	2.50	<0.1	<0.01
WSR36	24/07/2024	Cloudy	Mid-Flood	Moderate	В	7	9:39:00 AM	8.16	8.12	32.34	27.07	1.60	4.00	<0.1	<0.01
WSR37	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:53:00 AM	8.87	8.14	31.77	27.17	1.65	2.50	<0.1	<0.01
WSR37	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	9:53:00 AM	8.86	8.11	31.86	27.16	1.63	2.50	<0.1	<0.01
WSR37	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:54:00 AM	8.88	8.08	31.86	27.17	1.60	3.00	<0.1	<0.01
WSR37	24/07/2024	Cloudy	Mid-Flood	Moderate	М	4	9:54:00 AM	8.84	8.14	31.76	27.19	1.62	2.50	<0.1	<0.01
WSR37	24/07/2024	Cloudy	Mid-Flood	Moderate	В	7	9:55:00 AM	8.87	8.08	31.80	27.15	1.63	3.00	<0.1	<0.01
WSR37	24/07/2024	Cloudy	Mid-Flood	Moderate	В	7	9:55:00 AM	8.86	8.15	31.78	27.19	1.65	2.50	<0.1	<0.01
NF1	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:19:00 AM	8.49	8.22	32.77	27.43	1.69	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)
NF1	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:19:00 AM	8.56	8.25	32.78	27.40	1.69	2.50	<0.1	<0.01
NF1	24/07/2024	Cloudy	Mid-Flood	Moderate	М	7	10:20:00 AM	8.51	8.23	32.71	27.41	1.67	3.00	<0.1	<0.01
NF1	24/07/2024	Cloudy	Mid-Flood	Moderate	М	7	10:20:00 AM	8.51	8.26	32.82	27.38	1.70	4.00	<0.1	<0.01
NF1	24/07/2024	Cloudy	Mid-Flood	Moderate	В	13	10:21:00 AM	8.49	8.18	32.83	27.41	1.68	3.00	<0.1	<0.01
NF1	24/07/2024	Cloudy	Mid-Flood	Moderate	В	13	10:21:00 AM	8.51	8.20	32.72	27.42	1.71	5.00	<0.1	<0.01
NF2	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:11:00 AM	8.10	8.16	32.01	27.33	1.81	3.00	<0.1	<0.01
NF2	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:11:00 AM	8.07	8.20	32.03	27.34	1.80	3.00	<0.1	<0.01
NF2	24/07/2024	Cloudy	Mid-Flood	Moderate	М	5	10:12:00 AM	8.08	8.14	32.09	27.32	1.80	3.00	<0.1	<0.01
NF2	24/07/2024	Cloudy	Mid-Flood	Moderate	М	5	10:12:00 AM	8.12	8.21	32.08	27.29	1.75	2.50	<0.1	<0.01
NF2	24/07/2024	Cloudy	Mid-Flood	Moderate	В	10	10:13:00 AM	8.08	8.21	32.08	27.30	1.76	3.00	<0.1	<0.01
NF2	24/07/2024	Cloudy	Mid-Flood	Moderate	В	10	10:13:00 AM	8.10	8.17	31.97	27.30	1.80	3.00	<0.1	<0.01
NF3	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:02:00 AM	9.13	8.31	31.99	27.06	1.62	4.00	<0.1	<0.01
NF3	24/07/2024	Cloudy	Mid-Flood	Moderate	S	1	10:02:00 AM	9.13	8.30	31.99	27.07	1.60	3.00	<0.1	<0.01
NF3	24/07/2024	Cloudy	Mid-Flood	Moderate	М	6	10:03:00 AM	9.09	8.29	32.02	27.01	1.61	3.00	<0.1	<0.01
NF3	24/07/2024	Cloudy	Mid-Flood	Moderate	М	6	10:03:00 AM	9.16	8.25	31.94	27.03	1.59	3.00	<0.1	<0.01
NF3	24/07/2024	Cloudy	Mid-Flood	Moderate	В	11	10:04:00 AM	9.11	8.28	31.96	27.05	1.56	4.00	<0.1	<0.01
NF3	24/07/2024	Cloudy	Mid-Flood	Moderate	В	11	10:04:00 AM	9.14	8.24	32.02	27.06	1.56	2.50	<0.1	<0.01
CE	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:43:00 AM	8.45	8.11	32.92	26.98	2.35	3.00	<0.1	<0.01
CE	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:43:00 AM	8.49	8.05	32.89	26.99	2.31	2.50	<0.1	<0.01
CE	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	12	11:44:00 AM	8.55	8.12	32.95	27.04	2.26	3.00	<0.1	<0.01
CE	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	12	11:44:00 AM	8.51	8.07	32.92	27.03	2.33	3.00	<0.1	<0.01
CE	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	23	11:45:00 AM	8.49	8.10	32.85	27.04	2.28	2.50	<0.1	<0.01
CE	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	23	11:45:00 AM	8.50	8.08	32.80	27.04	2.29	3.00	<0.1	<0.01
CF	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:42:00 AM	9.13	8.19	32.11	27.22	2.49	2.50	<0.1	<0.01
CF	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:42:00 AM	9.05	8.16	32.20	27.19	2.48	2.50	<0.1	<0.01
CF	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	8:43:00 AM	9.11	8.23	32.08	27.21	2.57	3.00	<0.1	<0.01
CF	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	8:43:00 AM	9.08	8.22	32.15	27.21	2.58	2.50	<0.1	<0.01
CF	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	19	8:44:00 AM	9.18	8.16	32.14	27.21	2.62	3.00	<0.1	<0.01
CF	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	19	8:44:00 AM	9.17	8.22	32.24	27.16	2.59	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)
WSR01	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:05:00 AM	8.78	8.19	32.56	27.04	2.17	3.00	<0.1	<0.01
WSR01	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:05:00 AM	8.78	8.18	32.57	27.01	2.15	3.00	<0.1	<0.01
WSR01	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:06:00 AM	8.86	8.14	32.56	26.97	2.14	2.50	<0.1	<0.01
WSR01	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:06:00 AM	8.87	8.21	32.58	27.05	2.16	2.50	<0.1	<0.01
WSR01	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	9:07:00 AM	8.76	8.16	32.52	27.02	2.13	3.00	<0.1	<0.01
WSR01	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	9:07:00 AM	8.90	8.20	32.57	26.99	2.12	3.00	<0.1	<0.01
WSR02	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:24:00 AM	8.54	8.24	33.36	26.97	2.09	2.50	<0.1	<0.01
WSR02	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:24:00 AM	8.56	8.25	33.32	26.96	2.12	2.50	<0.1	<0.01
WSR02	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:25:00 AM	8.49	8.21	33.41	26.99	2.10	3.00	<0.1	<0.01
WSR02	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:25:00 AM	8.50	8.26	33.34	26.97	2.13	3.00	<0.1	<0.01
WSR02	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	9:26:00 AM	8.51	8.24	33.38	27.01	2.09	3.00	<0.1	<0.01
WSR02	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	9:26:00 AM	8.58	8.23	33.40	26.97	2.11	3.00	<0.1	<0.01
WSR03	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:38:00 AM	8.92	8.16	32.63	26.75	1.56	2.50	<0.1	<0.01
WSR03	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:38:00 AM	8.88	8.15	32.52	26.75	1.59	3.00	<0.1	<0.01
WSR03	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:39:00 AM	8.90	8.13	32.61	26.78	1.54	2.50	<0.1	<0.01
WSR03	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:39:00 AM	8.95	8.17	32.60	26.77	1.51	2.50	<0.1	<0.01
WSR03	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:40:00 AM	8.85	8.19	32.61	26.81	1.51	3.00	<0.1	<0.01
WSR03	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:40:00 AM	8.88	8.15	32.65	26.79	1.47	3.00	<0.1	<0.01
WSR04	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:54:00 AM	8.39	8.28	32.95	26.81	1.55	3.00	<0.1	<0.01
WSR04	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:54:00 AM	8.45	8.30	32.96	26.77	1.66	2.50	<0.1	<0.01
WSR04	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:55:00 AM	8.44	8.24	32.99	26.78	1.63	3.00	<0.1	<0.01
WSR04	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:55:00 AM	8.46	8.27	32.85	26.81	1.37	4.00	<0.1	<0.01
WSR04	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:56:00 AM	8.37	8.27	32.96	26.79	1.38	2.50	<0.1	<0.01
WSR04	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:56:00 AM	8.33	8.27	32.91	26.74	1.63	4.00	<0.1	<0.01
WSR16	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:22:00 AM	9.06	8.32	32.23	27.20	1.46	2.50	<0.1	<0.01
WSR16	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:22:00 AM	8.94	8.31	32.28	27.17	1.47	2.50	<0.1	<0.01
WSR16	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	11:23:00 AM	9.06	8.25	32.34	27.14	1.48	2.50	<0.1	<0.01
WSR16	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	8	11:23:00 AM	9.03	8.31	32.24	27.14	1.46	2.50	<0.1	<0.01
WSR16	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	14	11:24:00 AM	9.05	8.29	32.18	27.16	1.47	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)
WSR16	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	14	11:24:00 AM	8.94	8.26	32.36	27.13	1.47	3.00	<0.1	<0.01
WSR33	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:09:00 AM	9.24	8.32	32.06	26.96	1.62	3.00	<0.1	<0.01
WSR33	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:09:00 AM	9.18	8.32	32.08	27.00	1.70	2.50	<0.1	<0.01
WSR33	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:10:00 AM	9.26	8.33	32.14	26.99	1.63	2.50	<0.1	<0.01
WSR33	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:10:00 AM	9.25	8.31	32.16	26.97	1.68	3.00	<0.1	<0.01
WSR33	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:11:00 AM	9.18	8.33	32.04	26.96	1.65	3.00	<0.1	<0.01
WSR33	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	10:11:00 AM	9.19	8.33	32.14	27.00	1.65	2.50	<0.1	<0.01
WSR36	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:26:00 AM	8.92	8.29	33.03	26.83	1.95	2.50	<0.1	<0.01
WSR36	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:26:00 AM	8.89	8.28	32.91	26.82	2.00	3.00	<0.1	<0.01
WSR36	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:27:00 AM	8.95	8.30	32.99	26.85	2.00	2.50	<0.1	<0.01
WSR36	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:27:00 AM	8.82	8.32	32.97	26.85	1.96	3.00	<0.1	<0.01
WSR36	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:27:00 AM	8.83	8.26	33.02	26.85	2.00	4.00	<0.1	<0.01
WSR36	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:27:00 AM	8.81	8.26	33.01	26.79	1.95	2.50	<0.1	<0.01
WSR37	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:43:00 AM	8.02	8.11	33.01	26.78	2.06	3.00	<0.1	<0.01
WSR37	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:43:00 AM	7.96	8.13	32.98	26.78	2.11	3.00	<0.1	<0.01
WSR37	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:44:00 AM	8.01	8.14	32.96	26.81	2.05	3.00	<0.1	<0.01
WSR37	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:44:00 AM	8.02	8.12	32.97	26.74	2.08	4.00	<0.1	<0.01
WSR37	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:45:00 AM	8.03	8.14	33.04	26.81	2.06	2.50	<0.1	<0.01
WSR37	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:45:00 AM	8.01	8.16	33.07	26.74	2.10	4.00	<0.1	<0.01
NF1	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:07:00 AM	8.00	8.08	31.89	26.90	2.49	3.00	<0.1	<0.01
NF1	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:07:00 AM	8.03	8.08	31.98	26.94	2.54	3.00	<0.1	<0.01
NF1	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:08:00 AM	8.11	8.13	31.98	26.92	2.42	2.50	<0.1	<0.01
NF1	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	11:08:00 AM	7.98	8.11	31.98	26.89	2.45	2.50	<0.1	<0.01
NF1	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:09:00 AM	8.09	8.10	31.97	26.89	2.49	2.50	<0.1	<0.01
NF1	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	11:09:00 AM	8.04	8.09	31.84	26.93	2.55	2.50	<0.1	<0.01
NF2	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:59:00 AM	8.90	8.27	32.65	26.79	1.99	3.00	<0.1	<0.01
NF2	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:59:00 AM	8.90	8.30	32.64	26.76	2.02	4.00	<0.1	<0.01
NF2	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:00:00 AM	8.85	8.25	32.57	26.78	2.01	3.00	<0.1	<0.01
NF2	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	11:00:00 AM	8.92	8.28	32.53	26.74	2.02	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)
NF2	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	11:01:00 AM	8.95	8.31	32.51	26.79	1.99	2.50	<0.1	<0.01
NF2	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	11:01:00 AM	8.90	8.30	32.57	26.76	1.98	2.50	<0.1	<0.01
NF3	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:52:00 AM	9.47	8.33	31.73	26.88	2.18	3.00	<0.1	<0.01
NF3	27/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:52:00 AM	9.40	8.37	31.78	26.89	2.17	3.00	<0.1	<0.01
NF3	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	10:53:00 AM	9.45	8.36	31.62	26.92	2.15	2.50	<0.1	<0.01
NF3	27/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	10:53:00 AM	9.52	8.35	31.64	26.88	2.16	3.00	<0.1	<0.01
NF3	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:54:00 AM	9.47	8.33	31.71	26.86	2.20	3.00	<0.1	<0.01
NF3	27/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	10:54:00 AM	9.45	8.34	31.77	26.89	2.16	3.00	<0.1	<0.01
CE	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:00:00 AM	9.09	8.09	31.71	27.44	2.75	2.50	<0.1	<0.01
CE	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:00:00 AM	9.06	8.09	31.69	27.37	2.74	3.00	<0.1	<0.01
CE	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	8:01:00 AM	9.12	8.05	31.82	27.44	2.61	6.00	<0.1	<0.01
CE	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	8:01:00 AM	9.13	8.05	31.77	27.43	2.66	5.00	<0.1	<0.01
CE	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	20	8:02:00 AM	9.10	8.09	31.76	27.44	2.56	3.00	<0.1	<0.01
CE	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	20	8:02:00 AM	9.05	8.09	31.68	27.45	2.62	2.50	<0.1	<0.01
CF	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:14:00 AM	9.17	8.26	31.10	27.51	2.41	3.00	<0.1	<0.01
CF	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	11:14:00 AM	9.05	8.28	31.06	27.53	2.43	6.00	<0.1	<0.01
CF	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	11:15:00 AM	9.05	8.28	31.06	27.58	2.38	5.00	<0.1	<0.01
CF	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	10	11:15:00 AM	9.10	8.31	31.01	27.55	2.41	5.00	<0.1	<0.01
CF	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	19	11:16:00 AM	9.14	8.31	31.10	27.50	2.26	4.00	<0.1	<0.01
CF	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	19	11:16:00 AM	9.05	8.30	31.10	27.54	2.19	3.00	<0.1	<0.01
WSR01	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:52:00 AM	9.11	8.11	31.89	27.40	1.93	3.00	<0.1	<0.01
WSR01	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:52:00 AM	9.08	8.14	31.77	27.47	1.95	3.00	<0.1	<0.01
WSR01	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:53:00 AM	9.13	8.13	31.77	27.43	1.95	4.00	<0.1	<0.01
WSR01	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:53:00 AM	9.16	8.12	31.80	27.44	1.97	3.00	<0.1	<0.01
WSR01	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:54:00 AM	9.15	8.10	31.86	27.41	1.96	3.00	<0.1	<0.01
WSR01	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:54:00 AM	9.09	8.12	31.84	27.39	1.93	6.00	<0.1	<0.01
WSR02	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:33:00 AM	9.12	8.10	32.51	27.55	1.44	4.00	<0.1	<0.01
WSR02	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:33:00 AM	9.11	8.08	32.55	27.46	1.43	3.00	<0.1	<0.01
WSR02	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:34:00 AM	9.08	8.08	32.45	27.46	1.48	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)
WSR02	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	10:34:00 AM	9.02	8.11	32.53	27.47	1.45	4.00	<0.1	<0.01
WSR02	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:35:00 AM	8.96	8.07	32.46	27.49	1.46	3.00	<0.1	<0.01
WSR02	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	8	10:35:00 AM	9.06	8.10	32.56	27.55	1.48	5.00	<0.1	<0.01
WSR03	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:15:00 AM	8.69	8.26	32.28	27.57	2.16	3.00	<0.1	<0.01
WSR03	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:15:00 AM	8.67	8.24	32.33	27.62	2.18	5.00	<0.1	<0.01
WSR03	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:16:00 AM	8.55	8.23	32.21	27.56	2.18	5.00	<0.1	<0.01
WSR03	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	10:16:00 AM	8.55	8.26	32.25	27.57	2.14	5.00	<0.1	<0.01
WSR03	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:17:00 AM	8.52	8.21	32.29	27.59	2.18	3.00	<0.1	<0.01
WSR03	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	10:17:00 AM	8.53	8.25	32.25	27.54	2.15	5.00	<0.1	<0.01
WSR04	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	10:00:00 AM	8.98	8.24	31.64	27.22	1.41	4.00	<0.1	<0.01
WSR04	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	12:00:00 AM	8.89	8.22	31.62	27.22	1.50	4.00	<0.1	<0.01
WSR04	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:01:00 AM	8.98	8.24	31.72	27.18	1.53	3.00	<0.1	<0.01
WSR04	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	12:01:00 AM	9.02	8.23	31.64	27.18	1.45	4.00	<0.1	<0.01
WSR04	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:02:00 AM	8.98	8.20	31.64	27.21	1.46	6.00	<0.1	<0.01
WSR04	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	12:02:00 AM	8.97	8.21	31.63	27.21	1.43	4.00	<0.1	<0.01
WSR16	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:23:00 AM	8.59	8.16	31.51	27.42	2.15	2.50	<0.1	<0.01
WSR16	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:23:00 AM	8.50	8.20	31.45	27.40	2.13	3.00	<0.1	<0.01
WSR16	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	9	8:24:00 AM	8.59	8.16	31.51	27.41	2.08	3.00	<0.1	<0.01
WSR16	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	9	8:24:00 AM	8.56	8.21	31.45	27.42	2.04	6.00	<0.1	<0.01
WSR16	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	16	8:25:00 AM	8.51	8.19	31.55	27.42	2.03	4.00	<0.1	<0.01
WSR16	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	16	8:25:00 AM	8.53	8.20	31.57	27.46	2.11	3.00	<0.1	<0.01
WSR33	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:43:00 AM	8.55	8.28	31.98	27.55	1.87	3.00	<0.1	<0.01
WSR33	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:43:00 AM	8.45	8.30	31.95	27.54	1.82	5.00	<0.1	<0.01
WSR33	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:44:00 AM	8.38	8.30	31.89	27.62	1.85	5.00	<0.1	<0.01
WSR33	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:44:00 AM	8.41	8.33	31.91	27.58	1.86	5.00	<0.1	<0.01
WSR33	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:45:00 AM	8.57	8.31	31.97	27.59	1.82	3.00	<0.1	<0.01
WSR33	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:45:00 AM	8.48	8.29	31.98	27.62	1.83	5.00	<0.1	<0.01
WSR36	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:27:00 AM	8.31	8.14	31.60	27.37	1.80	3.00	<0.1	<0.01
WSR36	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:27:00 AM	8.34	8.13	31.62	27.35	1.76	5.00	<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	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:28:00 AM	8.35	8.09	31.51	27.33	1.77	3.00	<0.1	<0.01
WSR36	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:28:00 AM	8.30	8.12	31.64	27.32	1.77	3.00	<0.1	<0.01
WSR36	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:28:00 AM	8.33	8.14	31.54	27.35	1.78	4.00	<0.1	<0.01
WSR36	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	6	9:28:00 AM	8.34	8.10	31.65	27.38	1.76	5.00	<0.1	<0.01
WSR37	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:19:00 AM	8.50	8.25	32.79	27.33	1.96	6.00	<0.1	<0.01
WSR37	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:19:00 AM	8.65	8.24	32.87	27.33	1.94	5.00	<0.1	<0.01
WSR37	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:20:00 AM	8.51	8.27	32.82	27.28	1.94	6.00	<0.1	<0.01
WSR37	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	4	9:20:00 AM	8.68	8.24	32.89	27.30	1.93	5.00	<0.1	<0.01
WSR37	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:21:00 AM	8.59	8.28	32.79	27.31	1.93	4.00	<0.1	<0.01
WSR37	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	7	9:21:00 AM	8.66	8.24	32.90	27.28	1.96	4.00	<0.1	<0.01
NF1	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:45:00 AM	8.18	8.05	31.47	27.28	1.86	3.00	<0.1	<0.01
NF1	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	8:45:00 AM	8.24	8.03	31.40	27.31	1.88	6.00	<0.1	<0.01
NF1	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	8:46:00 AM	8.07	8.01	31.44	27.26	1.86	4.00	<0.1	<0.01
NF1	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	7	8:46:00 AM	8.16	8.04	31.45	27.32	1.83	4.00	<0.1	<0.01
NF1	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	8:47:00 AM	8.10	8.02	31.41	27.26	1.84	5.00	<0.1	<0.01
NF1	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	13	8:47:00 AM	8.10	8.06	31.48	27.34	1.86	4.00	<0.1	<0.01
NF2	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:01:00 AM	9.19	8.32	31.79	27.36	1.34	2.50	<0.1	<0.01
NF2	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:01:00 AM	9.19	8.29	31.82	27.35	1.37	2.50	<0.1	<0.01
NF2	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:02:00 AM	9.14	8.30	31.72	27.38	1.53	2.50	<0.1	<0.01
NF2	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	5	9:02:00 AM	9.25	8.34	31.70	27.32	1.38	2.50	<0.1	<0.01
NF2	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:03:00 AM	9.18	8.32	31.82	27.32	1.36	4.00	<0.1	<0.01
NF2	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	9	9:03:00 AM	9.27	8.32	31.76	27.32	1.34	5.00	<0.1	<0.01
NF3	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:11:00 AM	8.23	8.14	31.60	27.58	1.91	6.00	<0.1	<0.01
NF3	30/07/2024	Cloudy	Mid-Ebb	Moderate	S	1	9:11:00 AM	8.11	8.12	31.60	27.52	1.89	6.00	<0.1	<0.01
NF3	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:12:00 AM	8.24	8.16	31.60	27.61	1.89	4.00	<0.1	<0.01
NF3	30/07/2024	Cloudy	Mid-Ebb	Moderate	М	6	9:12:00 AM	8.20	8.12	31.59	27.52	1.88	5.00	<0.1	<0.01
NF3	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	9:13:00 AM	8.15	8.12	31.54	27.52	1.93	7.00	<0.1	<0.01
NF3	30/07/2024	Cloudy	Mid-Ebb	Moderate	В	11	9:13:00 AM	8.16	8.14	31.56	27.58	1.91	5.00	<0.1	<0.01

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

Continuous Effluent Monitoring (July 2024)

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

Date & Time	Sal (ppt)	рН	Temp (°C)	Total Residual Chlorine (mg/L)
07/01/2024 12:00 AM	50.54	7.14	26.1	0.04
07/01/2024 02:00 AM	51.68	7.65	26.8	0.01
07/01/2024 04:00 AM	50.58	7.13	26.4	0.01
07/01/2024 06:00 AM	50.68	7.25	26.1	0.01
07/01/2024 08:00 AM	51.36	7.58	25.9	0.06
07/01/2024 10:00 AM	52.68	7.18	26.3	0.04
07/01/2024 12:00 PM	51.68	7.10	26.6	0.06
07/01/2024 02:00 PM	50.31	7.17	26.1	0.05
07/01/2024 04:00 PM	51.55	6.20	26.0	0.01
07/01/2024 06:00 PM	50.31	7.92	25.6	0.03
07/01/2024 08:00 PM	51.54	6.58	25.0	0.05
07/01/2024 10:00 PM	52.68	8.14	25.3	0.07
07/02/2024 12:00 AM	53.54	7.73	26.4	0.06
07/02/2024 02:00 AM	52.14	6.19	26.9	0.01
07/02/2024 04:00 AM	50.36	6.28	26.9	0.07
07/02/2024 06:00 AM	50.98	6.80	25.2	0.05
07/02/2024 08:00 AM	50.12	6.64	26.7	0.04
07/02/2024 10:00 AM	51.56	6.36	26.0	0.03
07/02/2024 12:00 PM	50.68	8.01	25.5	0.07
07/02/2024 02:00 PM	52.68	6.95	25.2	0.05
07/02/2024 04:00 PM	50.36	6.80	25.6	0.01
07/02/2024 06:00 PM	51.23	6.55	26.3	0.02
07/02/2024 08:00 PM	51.98	7.05	25.9	0.02
07/02/2024 10:00 PM	52.36	8.00	25.6	0.06
07/03/2024 12:00 AM	53.68	6.46	25.2	0.02
07/03/2024 02:00 AM	52.48	7.30	25.7	0.07
07/03/2024 04:00 AM	51.36	6.38	25.3	0.05
07/03/2024 06:00 AM	50.38	6.62	26.7	0.03
07/03/2024 08:00 AM	51.58	8.06	26.5	0.01
07/03/2024 10:00 AM	54.58	8.01	25.6	0.06
07/03/2024 12:00 PM	53.84	7.44	25.3	0.07
07/03/2024 02:00 PM	56.57	6.82	25.1	0.04
07/03/2024 04:00 PM	51.68	6.25	26.1	0.02
07/03/2024 06:00 PM	56.87	6.24	26.9	0.02
07/03/2024 08:00 PM	53.48	7.03	25.8	0.04
07/03/2024 10:00 PM	58.47	7.67	25.9	0.05
07/04/2024 12:00 AM	56.65	6.47	26.4	0.07
07/04/2024 02:00 AM	58.12	6.16	26.8	0.02
07/04/2024 04:00 AM	53.54	7.98	26.1	0.04
07/04/2024 06:00 AM	51.89	6.33	26.2	0.04
07/04/2024 08:00 AM	53.21	7.59	26.5	0.04
07/04/2024 10:00 AM	54.21	7.60	26.7	0.01
07/04/2024 12:00 PM	58.65	6.86	25.8	0.06
07/04/2024 02:00 PM	54.17	7.20	25.6	0.02
07/04/2024 04:00 PM	53.27	6.16	26.9	0.07
07/04/2024 06:00 PM	52.54	7.81	26.9	0.01
07/04/2024 08:00 PM	53.54	7.10	26.5	0.05
07/04/2024 10:00 PM	48.25	7.82	26.5	0.04

Date & Time	Sal (ppt)	рН	Temp (°C)	Total Residual Chlorine (mg/L)
07/05/2024 12:00 AM	58.31	7.82	25.4	0.01
07/05/2024 02:00 AM	56.65	7.82	25.5	0.02
07/05/2024 04:00 AM	55.21	7.82	26.3	0.04
07/05/2024 06:00 AM	55.36	7.82	25.9	0.03
07/05/2024 08:00 AM	54.12	7.82	26.0	0.04
07/05/2024 10:00 AM	49.87	7.82	25.8	0.05
07/05/2024 12:00 PM	51.36	7.82	25.0	0.06
07/05/2024 02:00 PM	52.10	7.82	25.2	0.08
07/05/2024 04:00 PM	51.01	7.82	26.2	0.04
07/05/2024 06:00 PM	50.25	7.72	26.3	0.05
07/05/2024 08:00 PM	49.36	7.72	25.8	0.03
07/05/2024 10:00 PM	53.21	7.72	25.6	0.01
07/06/2024 12:00 AM	51.36	7.72	25.5	0.02
07/06/2024 02:00 AM	51.00	7.72	26.1	0.01
07/06/2024 04:00 AM	49.87	7.72	25.3	0.03
07/06/2024 06:00 AM	49.63	7.72	26.0	0.06
07/06/2024 08:00 AM	52.21	7.72	26.5	0.05
07/06/2024 00:00 AM	53.32	7.62	26.3	0.04
07/06/2024 10:00 AM	51.47	7.72	25.0	0.03
07/06/2024 12:00 PM	50.36	7.62	26.9	0.03
07/06/2024 02:00 PM	52.48	7.72	26.4	0.02
07/06/2024 04:00 PM	49.68	7.72	25.4	0.02
07/06/2024 08:00 PM	53.21	7.62	25.9	0.02
07/06/2024 08:00 PM	52.36	7.62	26.8	0.02
07/07/2024 10:00 PM	53.69	7.62	26.8	0.02
	52.14	7.62	25.2	0.02
07/07/2024 02:00 AM				
07/07/2024 04:00 AM	52.10	7.72 7.62	25.5	0.02
07/07/2024 06:00 AM	51.21		26.8	0.02
07/07/2024 08:00 AM	50.36	7.62	25.4	0.02
07/07/2024 10:00 AM	54.68	7.62	26.3	0.02
07/07/2024 12:00 PM	53.24	7.62	25.5	0.02
07/07/2024 02:00 PM	55.68	7.72	26.0	0.02
07/07/2024 04:00 PM	54.68	7.62	25.1	0.02
07/07/2024 06:00 PM	56.31	7.62	26.6	0.02
07/07/2024 08:00 PM	58.65	7.62	26.3	0.02
07/07/2024 10:00 PM	57.64	7.62	25.8	0.02
07/08/2024 12:00 AM	57.31	7.62	26.4	0.02
07/08/2024 02:00 AM	57.01	7.62	26.5	0.02
07/08/2024 04:00 AM	57.09	7.62	26.9	0.02
07/08/2024 06:00 AM	58.12	7.62	26.6	0.02
07/08/2024 08:00 AM	58.36	7.62	26.1	0.02
07/08/2024 10:00 AM	57.21	7.62	25.5	0.02
07/08/2024 12:00 PM	56.32	7.61	26.5	0.07
07/08/2024 02:00 PM	60.21	7.73	25.3	0.06
07/08/2024 04:00 PM	58.54	7.73	26.8	0.03
07/08/2024 06:00 PM	57.68	7.73	26.8	0.06
07/08/2024 08:00 PM	58.22	7.73	26.8	0.07
07/08/2024 10:00 PM	57.36	7.73	26.4	0.03

Continuous Effluent Monitoring (July 2024)

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

Continuous Effluent Monitoring (July 2024)	
Continuous Entuent Pointoning (July 2024)	

Date & Time	Sal (ppt)	рН	Temp (°C)	Total Residual Chlorine (mg/L)
07/09/2024 12:00 AM	56.32	7.73	26.4	0.07
07/09/2024 02:00 AM	57.14	7.73	25.8	0.04
07/09/2024 04:00 AM	58.36	7.63	25.5	0.03
07/09/2024 06:00 AM	54.11	7.73	26.2	0.07
07/09/2024 08:00 AM	53.02	7.63	26.7	0.05
07/09/2024 10:00 AM	58.36	7.63	25.0	0.02
07/09/2024 12:00 PM	59.31	7.73	25.1	0.04
07/09/2024 02:00 PM	58.36	7.73	25.2	0.06
07/09/2024 04:00 PM	57.14	7.63	25.2	0.05
07/09/2024 06:00 PM	56.31	7.63	25.6	0.06
07/09/2024 08:00 PM	55.36	7.63	26.3	0.04
07/09/2024 10:00 PM	54.21	7.53	25.2	0.03
07/10/2024 12:00 AM	53.20	7.63	25.7	0.02
07/10/2024 02:00 AM	55.36	7.63	25.7	0.03
07/10/2024 04:00 AM	54.07	7.53	26.8	0.02
07/10/2024 06:00 AM	53.68	7.63	26.0	0.01
07/10/2024 08:00 AM	52.21	7.53	26.9	0.03
07/10/2024 10:00 AM	58.35	7.64	25.6	0.07
07/10/2024 12:00 PM	54.35	7.63	26.3	0.02
07/10/2024 02:00 PM	55.14	7.63	26.1	0.07
07/10/2024 04:00 PM	56.38	7.53	25.0	0.02
07/10/2024 06:00 PM	57.14	7.63	25.2	0.02
07/10/2024 08:00 PM	52.21	7.63	25.0	0.02
07/10/2024 10:00 PM	51.02	7.52	25.7	0.05
07/11/2024 12:00 AM	53.68	7.63	25.7	0.02
07/11/2024 02:00 AM	55.21	7.63	26.7	0.02
07/11/2024 04:00 AM	53.68	7.63	26.3	0.06
07/11/2024 06:00 AM	54.38	7.63	25.6	0.05
07/11/2024 08:00 AM	55.01	7.63	25.9	0.02
07/11/2024 10:00 AM	56.36	7.53	26.9	0.04
07/11/2024 12:00 PM	56.84	7.53	26.7	0.03
07/11/2024 02:00 PM	56.87	7.53	25.8	0.06
07/11/2024 04:00 PM	55.32	7.63	25.3	0.06
07/11/2024 06:00 PM	54.01	7.53	25.9	0.03
07/11/2024 08:00 PM	55.36	7.53	25.0	0.07
07/11/2024 10:00 PM	58.64	7.53	25.9	0.01
07/12/2024 12:00 AM	59.24	7.30	26.3	0.01
07/12/2024 02:00 AM	58.11	7.26	25.2	0.07
07/12/2024 04:00 AM	55.21	7.30	26.5	0.04
07/12/2024 06:00 AM	54.01	6.14	25.0	0.01
07/12/2024 08:00 AM	56.37	7.54	26.0	0.04
07/12/2024 10:00 AM	57.14	7.17	25.1	0.06
07/12/2024 12:00 PM	53.14	6.41	25.6	0.04
07/12/2024 02:00 PM	57.48	7.30	26.6	0.07
07/12/2024 04:00 PM	56.21	6.72	25.7	0.07
07/12/2024 06:00 PM	53.24	7.62	25.2	0.07
07/12/2024 08:00 PM	55.14	7.57	26.2	0.03
07/12/2024 10:00 PM	54.25	8.01	26.2	0.07

Date & Time	Sal (ppt)	pН	Temp (°C)	Total Residual Chlorine (mg/L)
07/13/2024 12:00 AM	56.32	8.06	25.4	0.05
07/13/2024 02:00 AM	55.86	7.15	25.9	0.03
07/13/2024 04:00 AM	54.16	6.63	25.6	0.07
07/13/2024 06:00 AM	56.32	7.05	25.7	0.03
07/13/2024 08:00 AM	58.54	6.39	25.3	0.03
07/13/2024 10:00 AM	57.10	6.14	26.1	0.03
07/13/2024 12:00 PM	56.36	8.10	26.4	0.01
07/13/2024 02:00 PM	55.21	7.75	26.7	0.01
07/13/2024 04:00 PM	54.36	7.95	26.7	0.01
07/13/2024 06:00 PM	55.20	7.62	26.6	0.05
07/13/2024 08:00 PM	54.39	7.62	26.7	0.04
07/13/2024 10:00 PM	60.25	7.62	26.8	0.04
07/14/2024 12:00 AM	58.54	7.52	26.3	0.05
07/14/2024 02:00 AM	57.44	7.62	25.9	0.03
07/14/2024 04:00 AM	52.58	7.62	26.2	0.06
07/14/2024 06:00 AM	54.36	7.62	26.0	0.02
07/14/2024 08:00 AM	55.14	7.62	25.6	0.02
07/14/2024 10:00 AM	58.45	7.62	25.6	0.01
07/14/2024 12:00 PM	56.98	7.62	25.7	0.02
07/14/2024 02:00 PM	55.27	7.62	25.4	0.05
07/14/2024 04:00 PM	54.65	7.62	26.8	0.01
07/14/2024 06:00 PM	53.12	7.62	25.8	0.05
07/14/2024 08:00 PM	60.59	7.62	26.3	0.07
07/14/2024 10:00 PM	59.74	7.52	25.2	0.02
07/15/2024 12:00 AM	59.43	7.62	26.7	0.04
07/15/2024 02:00 AM	58.22	7.62	26.3	0.04
07/15/2024 04:00 AM	56.95	7.62	26.0	0.05
07/15/2024 06:00 AM	56.88	7.62	25.7	0.02
07/15/2024 08:00 AM	56.35	7.52	25.0	0.02
07/15/2024 10:00 AM	64.59	7.50	26.4	0.06
07/15/2024 12:00 PM	64.32	7.50	26.4	0.04
07/15/2024 02:00 PM	65.32	7.50	26.4	0.01
07/15/2024 02:00 PM	61.36	7.50	26.1	0.01
07/15/2024 04:00 PM	62.33	7.50	26.3	0.07
07/15/2024 08:00 PM	60.36	7.50	26.4	0.07
07/15/2024 08:00 PM	59.54	7.50	26.4	0.05
07/16/2024 10:00 PM	59.57	7.50	25.3	0.02
07/16/2024 12:00 AM	59.37	7.50	25.5	0.04
07/16/2024 02:00 AM	59.21	7.50	26.9	0.03
07/16/2024 04:00 AM	60.32	7.50	26.8	0.03
07/16/2024 08:00 AM	61.25	7.50	25.2	0.01
07/16/2024 08:00 AM	60.02	7.50	25.2	0.05
	59.68	7.50	26.7	0.04
07/16/2024 12:00 PM				
07/16/2024 02:00 PM	59.47	7.05	25.9	0.04
07/16/2024 04:00 PM	58.21	7.03	26.9	0.06
07/16/2024 06:00 PM	61.32	7.69	26.6	0.03
07/16/2024 08:00 PM	61.36	7.69	26.6	0.07
07/16/2024 10:00 PM	60.25	7.69	25.0	0.02

Continuous Effluent Monitoring (July 2024)

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

Continuous	Effluent	Monitoring	(lub	2024)

Date & Time	Sal (ppt)	рН	Temp (°C)	Total Residual Chlorine (mg/L)
07/17/2024 12:00 AM	62.58	7.69	25.5	0.04
07/17/2024 02:00 AM	63.55	7.69	26.7	0.06
07/17/2024 04:00 AM	63.12	7.69	26.1	0.04
07/17/2024 06:00 AM	59.36	7.69	25.9	0.07
07/17/2024 08:00 AM	64.21	7.69	25.4	0.04
07/17/2024 10:00 AM	63.21	7.69	25.4	0.02
07/17/2024 12:00 PM	47.89	7.74	26.5	0.03
07/17/2024 02:00 PM	46.49	7.74	25.1	0.02
07/17/2024 04:00 PM	46.40	7.74	26.5	0.02
07/17/2024 06:00 PM	44.37	7.74	25.7	0.04
07/17/2024 08:00 PM	44.26	7.74	26.0	0.01
07/17/2024 10:00 PM	44.36	7.74	25.4	0.06
07/18/2024 12:00 AM	44.25	7.74	25.0	0.02
07/18/2024 02:00 AM	44.53	7.74	26.2	0.01
07/18/2024 04:00 AM	44.59	7.74	26.1	0.03
07/18/2024 06:00 AM	44.71	7.74	25.3	0.06
07/18/2024 08:00 AM	44.98	7.74	26.9	0.04
07/18/2024 10:00 AM	45.23	7.74	26.4	0.04
07/18/2024 12:00 PM	43.40	7.65	25.8	0.03
07/18/2024 02:00 PM	43.12	7.76	25.9	0.07
07/18/2024 04:00 PM	42.80	7.76	26.7	0.02
07/18/2024 06:00 PM	42.02	7.74	26.6	0.03
07/18/2024 08:00 PM	41.92	7.74	25.6	0.06
07/18/2024 10:00 PM	42.36	7.74	25.0	0.03
07/19/2024 12:00 AM	42.49	7.74	26.0	0.07
07/19/2024 02:00 AM	42.59	7.74	26.8	0.01
07/19/2024 04:00 AM	43.11	7.74	25.5	0.05
07/19/2024 06:00 AM	43.14	7.74	26.5	0.01
07/19/2024 08:00 AM	43.51	7.74	25.7	0.04
07/19/2024 10:00 AM	43.15	7.74	25.2	0.06
07/19/2024 12:00 PM	42.12	7.74	26.3	0.07
07/19/2024 02:00 PM	41.95	7.64	25.2	0.03
07/19/2024 04:00 PM	41.59	7.64	26.9	0.03
07/19/2024 06:00 PM	41.68	7.64	25.5	0.03
07/19/2024 08:00 PM	41.65	7.64	25.6	0.07
07/19/2024 10:00 PM	41.66	7.64	25.5	0.06
07/20/2024 12:00 AM	41.67	7.64	26.0	0.06
07/20/2024 02:00 AM	39.61	7.64	25.6	0.06
07/20/2024 04:00 AM	41.24	7.64	26.3	0.01
07/20/2024 06:00 AM	45.32	8.06	26.2	0.07
07/20/2024 08:00 AM	45.12	8.06	25.6	0.05
07/20/2024 10:00 AM	46.85	7.76	25.9	0.02
07/20/2024 12:00 PM	45.71	7.66	25.6	0.02
07/20/2024 02:00 PM	46.22	7.66	25.6	0.02
07/20/2024 04:00 PM	46.22	7.66	26.1	0.02
07/20/2024 06:00 PM	46.24	7.66	26.2	0.07
07/20/2024 08:00 PM	46.19	7.66	25.1	0.01
07/20/2024 10:00 PM	46.18	7.66	25.3	0.01

Date & Time	Sal (ppt)	рН	Temp (°C)	Total Residual Chlorine (mg/L)
07/21/2024 12:00 AM	46.08	7.66	26.2	0.04
07/21/2024 02:00 AM	46.08	7.66	25.2	0.02
07/21/2024 04:00 AM	45.98	7.66	24.5	0.02
07/21/2024 06:00 AM	45.87	7.66	25.3	0.02
07/21/2024 08:00 AM	45.63	7.66	25.8	0.02
07/21/2024 10:00 AM	45.64	7.66	26.3	0.02
07/21/2024 12:00 PM	45.54	7.66	25.1	0.02
07/21/2024 02:00 PM	45.43	7.66	25.3	0.06
07/21/2024 04:00 PM	45.36	7.66	25.2	0.06
07/21/2024 06:00 PM	45.35	7.66	25.3	0.06
07/21/2024 08:00 PM	45.25	7.66	25.1	0.06
07/21/2024 10:00 PM	45.25	7.66	25.8	0.06
07/22/2024 12:00 AM	45.15	7.76	26.2	0.06
07/22/2024 02:00 AM	45.05	7.76	25.8	0.06
07/22/2024 04:00 AM	44.94	7.76	25.1	0.06
07/22/2024 06:00 AM	44.84	7.76	26.3	0.06
07/22/2024 08:00 AM	44.74	7.76	26.2	0.06
07/22/2024 10:00 AM	44.64	7.76	26.1	0.06
07/22/2024 12:00 PM	44.26	7.76	26.2	0.06
07/22/2024 02:00 PM	44.17	7.76	26.0	0.06
07/22/2024 04:00 PM	43.98	7.76	26.3	0.06
07/22/2024 06:00 PM	43.72	7.76	25.8	0.06
07/22/2024 08:00 PM	43.70	7.76	25.1	0.06
07/22/2024 10:00 PM	43.59	7.76	25.8	0.06
07/23/2024 12:00 AM	43.49	7.76	25.4	0.03
07/23/2024 02:00 AM	43.28	7.76	26.2	0.03
07/23/2024 04:00 AM	43.07	7.76	26.1	0.03
07/23/2024 06:00 AM	42.87	7.76	25.8	0.03
07/23/2024 08:00 AM	43.38	7.76	25.4	0.03
07/23/2024 10:00 AM	43.38	7.66	25.3	0.03
07/23/2024 12:00 PM	43.27	7.66	25.2	0.03
07/23/2024 02:00 PM	43.17	7.66	25.1	0.03
07/23/2024 04:00 PM	42.90	7.66	26.2	0.03
07/23/2024 06:00 PM	42.72	7.66	26.1	0.03
07/23/2024 08:00 PM	42.65	7.76	26.0	0.03
07/23/2024 10:00 PM	42.35	7.76	26.9	0.03
07/24/2024 12:00 AM	42.14	7.76	25.1	0.03
07/24/2024 02:00 AM	41.94	7.76	25.3	0.03
07/24/2024 04:00 AM	42.09	7.76	24.0	0.03
07/24/2024 06:00 AM	41.88	7.76	25.1	0.03
07/24/2024 08:00 AM	42.05	7.76	25.8	0.03
07/24/2024 10:00 AM	42.15	7.76	25.3	0.03
07/24/2024 12:00 PM	41.94	7.76	26.8	0.03
07/24/2024 02:00 PM	41.74	7.76	25.4	0.03
07/24/2024 04:00 PM	41.77	7.76	24.3	0.03
07/24/2024 06:00 PM	41.53	7.76	25.8	0.03
07/24/2024 08:00 PM	41.32	7.76	25.4	0.03
07/24/2024 10:00 PM	40.98	7.76	25.3	0.03

Continuous Effluent Monitoring (July 2024)

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

Continuous	Effluont	Monitoring	(hub	(2024)

Date & Time	Sal (ppt)	рН	Temp (°C)	Total Residual Chlorine (mg/L)
07/25/2024 12:00 AM	41.08	7.76	24.1	0.03
07/25/2024 02:00 AM	40.88	7.76	25.2	0.03
07/25/2024 04:00 AM	41.04	7.76	25.3	0.03
07/25/2024 06:00 AM	41.04	7.76	25.6	0.03
07/25/2024 08:00 AM	40.94	7.76	25.7	0.03
07/25/2024 10:00 AM	40.74	7.76	25.6	0.03
07/25/2024 12:00 PM	46.89	8.05	26.0	0.05
07/25/2024 02:00 PM	47.22	8.05	25.7	0.04
07/25/2024 04:00 PM	47.34	8.05	26.1	0.06
07/25/2024 06:00 PM	47.34	8.05	26.0	0.01
07/25/2024 08:00 PM	47.38	8.05	24.1	0.02
07/25/2024 10:00 PM	47.43	8.05	24.1	0.07
07/26/2024 12:00 AM	47.51	8.05	25.1	0.06
07/26/2024 02:00 AM	47.57	8.05	25.3	0.04
07/26/2024 04:00 AM	47.72	8.05	25.8	0.01
07/26/2024 06:00 AM	47.70	8.05	25.1	0.01
07/26/2024 08:00 AM	47.67	8.05	26.1	0.07
07/26/2024 10:00 AM	47.81	8.05	25.7	0.05
07/26/2024 12:00 PM	47.92	7.97	25.1	0.02
07/26/2024 02:00 PM	47.93	7.97	25.1	0.05
07/26/2024 04:00 PM	48.07	7.97	25.7	0.04
07/26/2024 06:00 PM	48.20	7.97	26.6	0.03
07/26/2024 08:00 PM	48.29	7.97	25.6	0.02
07/26/2024 10:00 PM	48.44	7.87	25.8	0.01
07/27/2024 12:00 AM	48.57	7.87	26.1	0.06
07/27/2024 02:00 AM	48.70	7.85	26.3	0.05
07/27/2024 04:00 AM	48.85	7.85	25.2	0.04
07/27/2024 06:00 AM	48.95	7.85	25.8	0.05
07/27/2024 08:00 AM	48.98	7.85	25.2	0.02
07/27/2024 10:00 AM	49.10	7.85	25.4	0.02
07/27/2024 12:00 PM	49.25	7.85	25.6	0.02
07/27/2024 02:00 PM	49.39	7.85	25.8	0.02
07/27/2024 04:00 PM	49.45	7.85	25.4	0.02
07/27/2024 06:00 PM	49.54	7.85	25.9	0.02
07/27/2024 08:00 PM	49.60	7.85	26.3	0.02
07/27/2024 10:00 PM	49.84	7.85	25.1	0.02
07/28/2024 12:00 AM	49.86	7.85	24.1	0.02
07/28/2024 02:00 AM	50.03	7.85	25.7	0.02
07/28/2024 04:00 AM	50.26	7.85	25.8	0.02
07/28/2024 06:00 AM	50.38	7.85	25.8	0.02
07/28/2024 08:00 AM	50.38	7.85	25.7	0.02
07/28/2024 10:00 AM	50.55	7.85	25.8	0.02
07/28/2024 12:00 PM	50.64	7.85	25.1	0.02
07/28/2024 02:00 PM	50.74	7.85	25.3	0.02
07/28/2024 04:00 PM	50.84	7.85	26.2	0.02
07/28/2024 06:00 PM	51.04	7.85	26.1	0.02
07/28/2024 08:00 PM	50.90	7.85	25.1	0.02

Date & Time	Sal (ppt)	рН	Temp (°C)	Total Residual Chlorine (mg/L)
07/28/2024 10:00 PM	51.04	7.85	25.1	0.02
07/29/2024 12:00 AM	51.18	7.85	26.3	0.02
07/29/2024 02:00 AM	51.28	7.85	25.1	0.02
07/29/2024 04:00 AM	51.43	7.85	25.1	0.02
07/29/2024 06:00 AM	51.46	7.85	25.6	0.02
07/29/2024 08:00 AM	51.59	7.85	25.1	0.02
07/29/2024 10:00 AM	51.24	7.85	25.1	0.02
07/29/2024 12:00 PM	51.23	7.85	25.1	0.02
07/29/2024 02:00 PM	51.54	7.85	25.8	0.02
07/29/2024 04:00 PM	51.17	7.85	25.6	0.02
07/29/2024 06:00 PM	51.60	7.85	25.1	0.02
07/29/2024 08:00 PM	51.91	7.85	25.1	0.02
07/29/2024 10:00 PM	52.38	7.85	25.1	0.02
07/30/2024 12:00 AM	52.71	7.85	25.4	0.02
07/30/2024 02:00 AM	53.06	7.85	25.3	0.02
07/30/2024 04:00 AM	53.33	7.75	26.1	0.02
07/30/2024 06:00 AM	53.37	7.75	25.3	0.02
07/30/2024 08:00 AM	52.64	7.75	25.7	0.02
07/30/2024 10:00 AM	52.85	7.75	25.8	0.02
07/30/2024 12:00 PM	52.03	7.75	25.6	0.03
07/30/2024 02:00 PM	52.50	7.75	25.6	0.02
07/30/2024 04:00 PM	51.87	7.75	25.1	0.02
07/30/2024 06:00 PM	51.84	7.75	25.1	0.03
07/30/2024 08:00 PM	52.07	7.75	26.7	0.04
07/30/2024 10:00 PM	52.11	7.71	25.8	0.05
07/31/2024 12:00 AM	52.33	7.69	26.1	0.06
07/31/2024 02:00 AM	52.33	7.69	26.2	0.06
07/31/2024 04:00 AM	52.43	7.72	26.3	0.05
07/31/2024 06:00 AM	52.33	7.72	25.3	0.04
07/31/2024 08:00 AM	52.27	7.72	25.0	0.03
07/31/2024 10:00 AM	52.20	7.72	25.2	0.02
07/31/2024 12:00 PM	52.27	7.72	25.1	0.01
07/31/2024 02:00 PM	52.29	7.72	25.5	0.02
07/31/2024 04:00 PM	52.37	7.62	26.9	0.06
07/31/2024 06:00 PM	51.40	7.72	26.8	0.05
07/31/2024 08:00 PM	51.37	7.72	26.8	0.03
07/31/2024 10:00 PM	51.05	7.72	24.5	0.02

Date & Time	Suspended Solids (mg/L)	Total Inorganic Nitrogen (mg/L)	Total Phosphorus (mg/L)	*Sodium Metabisulphite (mg/L)	Iron (mg/L)
1/07/2024	<2	0.42	0.01	<2	<0.10
2/07/2024	4	0.38	<0.01	<2	<0.10
3/07/2024	<2	0.39	<0.01	<2	<0.10
4/07/2024	<2	0.45	<0.01	<2	<0.10
5/07/2024	<2	0.46	<0.01	<2	<0.10
6/07/2024	<2	0.39	<0.01	<2	<0.10
7/07/2024	<2	0.42	<0.01	<2	<0.10
8/07/2024	<2	0.51	0.03	<2	<0.10
9/07/2024	<2	0.40	<0.01	<2	<0.10
10/07/2024	<2	0.50	0.05	<2	<0.10
11/07/2024	<2	0.49	<0.01	<2	<0.10
12/07/2024	2	0.55	<0.01	<2	<0.10
13/07/2024	<2	0.50	0.01	<2	<0.10
14/07/2024	<2	0.52	0.01	<2	<0.10
15/07/2024	<2	0.68	<0.01	<2	<0.10
16/07/2024	<2	0.64	<0.01	<2	<0.10
17/07/2024	<2	0.70	0.02	<2	<0.10
18/07/2024	<2	0.70	0.02	<2	<0.10
19/07/2024	<2	0.82	0.02	<2	<0.10
20/07/2024	<2	0.69	0.03	<2	<0.10
21/07/2024	<2	0.73	0.03	<2	<0.10
22/07/2024	<2	0.67	0.02	<2	<0.10
23/07/2024	<2	0.68	<0.01	<2	<0.10
24/07/2024	<2	0.52	0.02	<2	<0.10
25/07/2024	<2	0.61	<0.01	<2	<0.10
26/07/2024	<2	0.62	<0.01	<2	<0.10
27/07/2024	<2	0.52	<0.01	<2	<0.10
28/07/2024	<2	0.52	<0.01	<2	<0.10
29/07/2024	<2	0.37	<0.01	<2	<0.10
30/07/2024	<2	0.45	<0.01	<2	<0.10
31/07/2024	<2	0.40	<0.01	<2	<0.10

#### \*Remark:

As confirmed by various laboratories in Hong Kong, the lowest detection limit for Sodium Metabisulphite is <2 mg/L.

Due to the limitation of the laboratory, the lowest result for Sodium Metabisulphite will only be shown as < 2 mg/L.

Landfill Gas Monitoring – Field Measurement Recording Sheet



Name of site: Tseung Kwan O Desalination Plant Phase 1

Sampling equipment used:	Dates calibrated
Altwirth , 221165	2314124

Sample location	Date of	Sampling	Monitoring wells / Surface Gas Emission								
	measurement	time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp °C	Pressure mBar	Remark	
MHI-Mid	19/7/24	14:00	Clandy	0	0	002	20.7	71	1007		
My1-Base		14:35	Jondy	0	0	0.01	20.9	30			
<u>Ииг-Ма</u>	1917/24	14:30	dandar	0	0	P		30	1008		
MM2-Base		14-48	clenda	0	0	0.01	20.7	3	1009		
MM3-Mid	1917/24	15:15	cloudy	0	0	0.01	20.7	31	1004		
MM3-Base		18:30	danter	0	0	0.02	20.8	21	1001		
M14-Mid	1917/24	16:00	Clark	0	0			21	1007		
144, Base	1917/24.	16:15	doutr	Ð	0	0.01	20.7	31	10.7		
MAC-Mid	1917124	16:24	Claudy	0	1	0.01	20.7	31	1009		
M5-Bau	1917/24	16:35	danty	0	0		20-7	31	1008		
446-mid	19/12/	16:00	dent	0	0	0.03	20.8	31	10.7		
			Art	~	.V	0.0	12.7	31	1008		

Signature

Jelle my

### Name & Designation

Prepared by field operator:

Checked by:

Norman lework Teany low tem

Date

19/7/24



Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of site: Tseung Kwan O Desalination Plant Phase 1

Sampling equipment used:	Dates calibrated
Allair 5X, 221165	2314124
	a Manifal
	2 10 15 1 1 1 1 1 1

Sample location	Date of	Sampling	Monitoring wells / Surface Gas Emission								
	measurement	time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp °C	Pressure mBar	Remark	
MU6-Base		17:00	Cloudy	0	0	0.02	20.8	2 0	1 0		
MN7-M:2	10/7/24	17:10	cloudy	0	0			30.8	1007		
MH7-Base		17:20	cloudy	D	0	201	20.9	31	1009		
Muz - Base	191124	17:40	clondy	0	v	0.01	20.7	30.8	1007		
Mrs - Mid	1917124	12:00	douby	0			20.9	30.8	1006		
19- Bave	19/7/24	18:10	doudy		0	0	20.9	30.8	1006		
Mng-Mil	19/7/24	17:28	1,1	0	Ó	0.02	20.8	32.7	1007		
1110-Base	19/7/24	17:40	Clordy	0	Ø	0.03	20.8	20.7	1027		
1110-Mid	191714		clandy		Ð	0.01	que.7	20.8	1204		
1111-Mid	19/7/24	19:00	Cloudy	0	0	0.01	20.8	31	1005		
1111-Base		19:15	cloudy	0	P	0.02	20.8	31	1007		
Parel.	19/7/27	19:25	clordy.	0	0	0	20.8	21	629		

Prepared by field operator:

Name & Designation Norman Keek Tomy Law

Signature Mh

Date 1917124 1917124

Checked by:



Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of site: Tseung Kwan O Desalination Plant Phase 1

Sampling equipment used:	Dates calibrated	
Altair 5x, 221165	23/4/24	
		_

Sample location	Date of	Sampling	Monitoring wells / Surface Gas Emission								
	measurement	time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp °C	Pressure mBar	Remark	
MU12-Bre	1917124	0900	Cloudy	Ø	0	0.01	20.7	31	1008		
M112-M:J	1917/24	0920	cloudy	۵	0	0.01	20.9	32	1007		
MM13-Brue		2940	clarty	0	D	0-02	20.8	31	1007		
Muis-Mid	19/2/24	10:10	cloudy	0	0	0.02	20.7	32	1009		
MM14-13ase		10:28	clandy	0	0	0.02	20.8	31	1006		
MU14-Mid	19/7/24	10:48	alondy	0	0	0.03	20.7	31	1004		
MIC-M=d	(9/7/24	1000	clady	0	0	0.01	20.01	30	1009		
MIK-Bank		11:18	donly	0	0	0.02	207	31	6007	10.000	
4416-Base		11230	dont	0	2	0-22	20.8	30	1000		
MUL -M.J	19/1/24	11:45	dely	Ø	0	0.02	21.8	31	1004		
MM 17 -Bac.	(917h+	12:00	dom	6	D	0.03	20.9	31	1007		

Name & Designation Norman Kinds Tom Jun

Signature Ma

Prepared by field operator:

Checked by:

Date 19/7/24 19/124



Landfill Gas Monitoring – Field Measurement Recording Sheet

Name of site: Tseung Kwan O Desalination Plant Phase 1

ated	Dates calibrated	Sampling equipment used:
24	2314/24	Altair 5x 221168
	o the server	. /
-		

Sample	Date of	Sampling			Mor	nitoring wells / S	Surface Gas Emi	ssion		1
location	measurement	time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp °C	Pressure mBar	Remark
MN17-Mid	19/7/24	12:20	Cloudy -	0	0	0.02	20.4	\$1	1008.	
132 Ku Shephin	and the second second second second second second second second second second second second second second second	14:00	Rain	0	0	0,01	20-8	31	1007	
trended worker		14:20	Rain	0	0	0.02	20-7	31	1009	and set of the set
Impy storm.	191714								1	12 - 1 - 1
traked with	13/1/24	14:35	Rain	0	0	0,01	20.7	31	(007	
Tank			4							
chlorike contop	1317/24	14:08	Rain	0	0	0	20.8	31	100 9	
tont										0.78
Switch Room	18/7/24	18:08	Rain	0	0	0,01	20.8	31	6007	
Stand By Genera	13/7/24	18:30	Ram	0	0	0.02	20.9	31	(003	
Switch con Ron										

Prepared by field operator:

Checked by:

Name & Designation Norman llivol Tomm h

Signature

Date 18/7/24 18/7/24





### Appendix G

### 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 Contract Generated 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) 4978.345 0.000 4667.745 0.000 0.000 77.800 Jan 0.000 310.600 0.000 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 49.190 0.000 0.000 0.000 49.190 0.000 0.000 0.000 0.002 0.000 60.780 Jun 27818.971 0.000 0.000 26550.751 1268.220 0.000 0.000 0.000 0.002 0.000 368.970 Sub-total Jul 60378.440 0.000 0.000 0.000 60378.440 0.000 0.000 0.000 0.000 0.000 42.820 Aug Sep Oct Nov Dec 88197.411 0.000 Total 0.000 0.000 26550.751 61646.660 0.000 0.000 0.002 0.000 411.790

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

Notes:

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

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging material





### Appendix H

### Ecology (Coral & Fishery) Survey Report

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#### **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 (TKODP) 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 on 13 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 operation phase monitoring surveys should be reviewed with reference to findings of the baseline survey.
- 2.4 If, during the 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 Operation 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
Note: If the	defined Action Lavel or Limit Lavel for corel monitor	ing is avaaadad the actions as sat out

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.

Tabl	Table 2-2 Event and Action Plan for Operation Phase Monitoring										
Event	Action										
Event	ET Leader		IEC				SOR	Contractor			
Action Level	1.	Check monitoring	1.	Discuss m	onitoring	1.	Discuss with the	1.	Inform	the	SOR
Exceedance		data		with the E	T and the		IEC additional		and	co	nfirm
	2.	Inform the IEC,		Contractor	;		monitoring		notificat	ion o	f the
SOR an		SOR and	2.	Review 1	proposals		requirements		non-com	pliano	e in
		Contractor of the		for a	dditional		and any other		writing;		
		findings;		monitoring	g and any		measures	2.	Discuss	with	the
	3.	Increase the		other	measures		proposed by the		ET and t	he IE	C and
		monitoring to at		submitted	by the		ET;		propose	mea	sures
		least once a		Contractor	and	2.	Make		to the II	EC an	d the
		month to confirm		advise th	ne SOR		agreement on		SOR;		
		findings;		accordingl	y.		the measures to	3.	Impleme	ent	the
	4.	Propose					be		agreed n	neasur	es.
		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 July 2024 operation phase monitoring were performed on 18<sup>th</sup> July 2024 for both Indirect Impact Sites and Control Site (Figure 1 and 2); and the weather conditions were summarized in Table 3.1.

|--|

Date	Condition	Average Underwater Visibility
1.9 <sup>th</sup> I1., 2024	- Southwest force 4 to 5,	Loss than 0.5
18 <sup>th</sup> July 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 July 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	18-Jul	Baseline	18-Jul	Baseline	18-Jul	
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 July 2024 Coral Monitoring Survey

Tag #	Species	Size (cm) – Max. Diameter	Condition		•	Bleachi		Sedime	ent (%)
				Baseline	18-Jul	Baseline	18-Jul	Baseline	18-Jul
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 July 2024 Coral Monitoring Survey

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

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

Tag #	Species	Size (cm) – Max. Diameter	Condition	Mortali	ity (%)	Bleachi	ng (%)	Sedime	ent (%)
				Baseline	18-Jul	Baseline	18-Jul	Baseline	18-Jul
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 July 2024 coral monitoring survey were carried out in the indirect impact area (C2 and C3) and control site (C8) on 18<sup>th</sup> July 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).

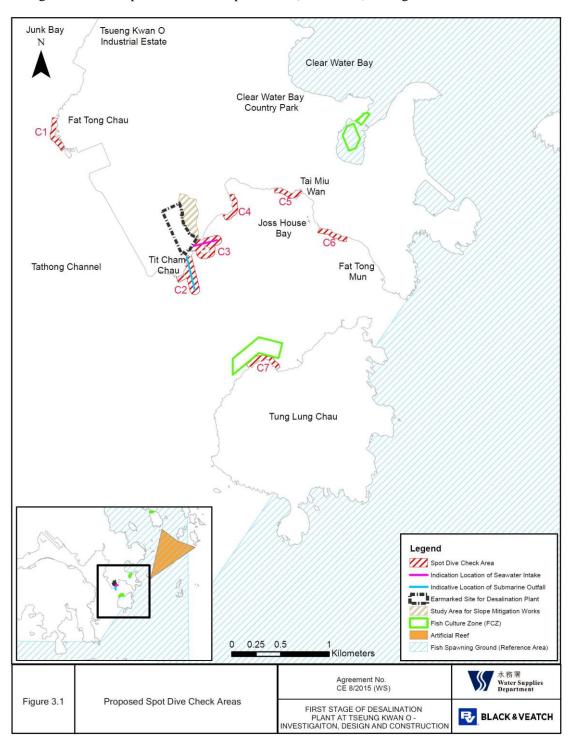


Figure 1 Two Proposed Indirect Impact Sites (C2 and C3) during Construction Phase

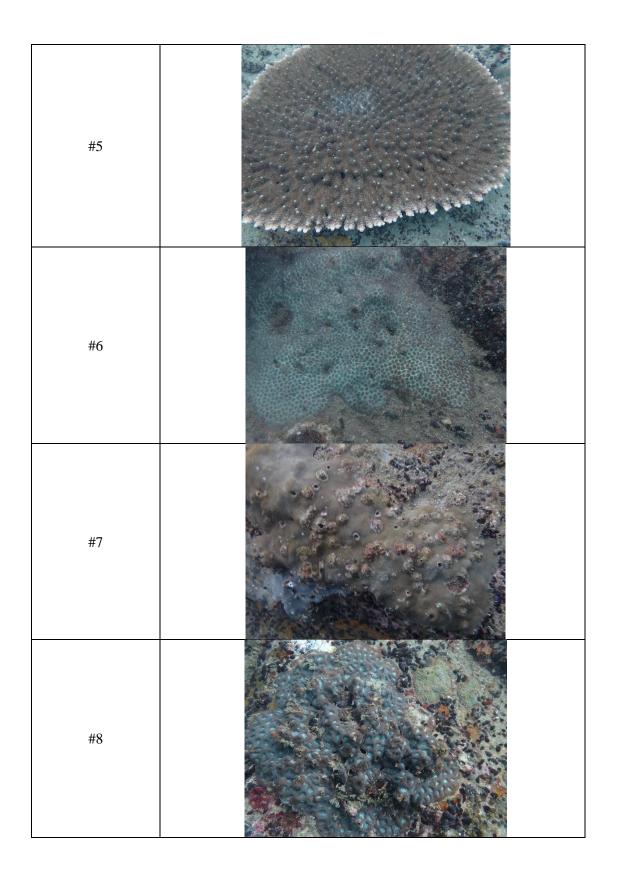
Figure 2 Proposed Control Site (C8) during Construction Phase

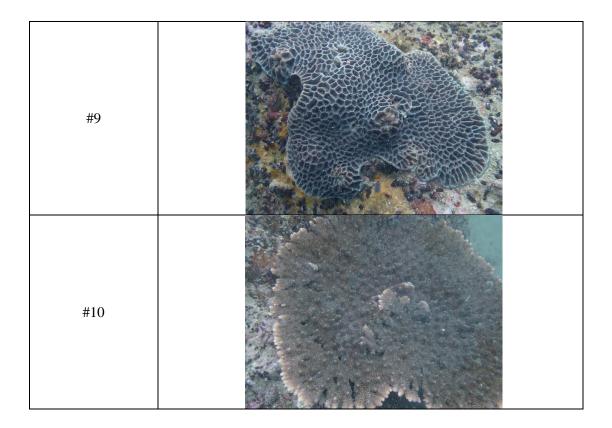


### APPENDIX A TAGGED CORAL PHOTO

Tag #	18 <sup>th</sup> July 2024
#1	
#2	
#3	
#4	

Photo Plate A Tagged Corals at Control Site C8





Tag #	18 <sup>th</sup> July 2024
#1	
#2	
#3	
#4	

Photo Plate B Tagged Corals at Indirect Impact Site C2

#5	
#6	
#7	
#8	
#9	

#10	
-----	--

Tag #	18 <sup>th</sup> July 2024
#11	
#12	
#13	
#14	

Photo Plate C Tagged Corals at Indirect Impact Site C3

#15	
#16	
#17	
#18	
#19	

#20	
-----	--

THE END





# Appendix I

# Site Inspection Proforma





#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date:0	2/07/2024 Inspected by: ET: <u>Toby Wan</u>	so: WSD:
Inspect	ion Time:1	4:30 Contractor: <u>Tommy Law</u>	IEC:
Weath	er		
Condi	ion	Sunny Fine Overcast Drizzle Rain	Storm Hazy
Tempe	erature	31 <sup>O</sup> C Humidity √ High Moderate	Low
Wind		Calm Light Breeze Strong	
Item			
No.	EIA ref.		N/A Yes No Photo/Remarks
0.00	General		
0.01		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	Air Qualit	y	
1.01	S4.8.2	Is the the treatment and storage of the chemical sludge enclosed inside building	
		structure?	
1.02	S4.8.2	Is the sludge treatment equipped Forced ventilation system with sufficient air	
		change rate?	
1.03	S4.8.2	Is the exhaust discharge directed away from ASRs as far as practicable?	
1.04	S4.8.2	Is the chemical sludge produced at the desalination plant removed off-site regularly	
		to avoid accumulation of potentially odourous materials on site?	
1.05	S4.8.2	Is dewatered sludge to landfill handled and transported properly to minimise odour	
		nuisance to nearby ASRs?	
1.06	S4.8.2	Are the trucks fully enclosed during transporting the dewatered sludge to the	
		landfill to minimise any off-site odour impact during the transportation process?	
2.00	Waste Ma		
2.02	S8.5.2	Is a recording system implemented to record the amount of wastes generated,	
		recycled and disposed of?	
2.03	S8.5.2	Is a trip-ticket system implemented to monitor the disposal of solid wastes at public filling facilities and landfills?	
2.04	S8.5.2	Is the Contractor registered as a chemical waste producer?	
2.05	S8.5.2	Is chemical waste separated from other waste and collected by a licensed chemical	
		waste collector?	
2.06	S8.5.2	Are trip tickets for chemical waste disposal available for inspection?	
2.07	S8.5.2	Is drip tray provided for chemical storage?	
2.08	S8.5.2	Are all containers for chemical waste properly labelled?	
2.09	S8.5.2	Is chemical waste storage area used solely for storage of chemical waste and	
		properly labelled?	





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
2.10	S8.5.2	Are incompatible chemical wastes stored in different areas?		$\checkmark$		
2.11	\$8.5.2	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		$\checkmark$		
2.12	S8.5.2	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?		✓		
2.13	\$8.5.2	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		$\checkmark$		
2.14	\$8.5.2	Are sufficient general refuse disposal/collection points provided on site?		$\checkmark$		
2.15	\$8.5.2	Is general refuse disposed of properly and regularly?		$\checkmark$		
2.16	\$8.5.2	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		✓		
2.17	\$8.5.2	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		✓		
2.18	\$8.5.2	Is the dewatered sludge met the minimum dry solid content (30%) in the to be disposed of at landfills?		$\checkmark$		
2.19	\$8.5.2	Is a dumping license obtained to deliver public fill to public filling areas?	✓			
3.00	Landscape	e and Visual				
3.01	S11.10 & 11.11	Are Is site hoarding provided?		$\checkmark$		
3.02	S11.10 & 11.11	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		$\checkmark$		
3.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?		$\checkmark$		
3.04	S11.10 & 11.11	Is grass hydroseeding provided to slopes as soon as the completion of works?		✓		
3.05	S11.10 & 11.11	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$		
3.06	S11.10 & 11.11	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	✓			
3.07	S11.10 & 11.11	Are the retained and transplanted tree(s) properly protected and in good conditions?		√		
3.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?	$\checkmark$			
4.00		Landfill Gas Hazard				
4.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		$\checkmark$		
4.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		$\checkmark$		
4.03	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?		✓		





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
4.04	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?		$\checkmark$		
4.05	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?		$\checkmark$		
4.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?	✓			
4.07	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?	✓			
4.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		$\checkmark$		
4.09	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?	$\checkmark$			
4.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?		$\checkmark$		
4.11	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?	<ul> <li></li> </ul>			
4.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		1		
5.00		Overall				
5.01		Is the EM&A properly implemented in general?		$\checkmark$		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date: 2 July 2024 No major observation was found during site inspection. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: Ting (~) (Name: RAILMA (Name: W5y Wow (Name: ) (Name: ) Koh





#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date:0	9/07/2024 Inspected by: ET: Toby Wan		rek Lai	WSD	:
Inspect	ion Time:1	4:30 Contractor: <u>Tommy Law</u>	IEC:			
Weath	er					
Condi	tion	Sunny Fine Overcast Drizzle Rain	Storm	Ha	azy	
Tempe	erature	30 <sup>0</sup> C Humidity √ High Moderate	Low			
Wind		Calm Light Breeze Strong				
Item						
No.	EIA ref.		N/A	Yes	No	Photo/Remarks
0.00	General	·				
0.01		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	Air Qualit	y y				
1.01	S4.8.2	Is the the treatment and storage of the chemical sludge enclosed inside building				
		structure?		V		
1.02	S4.8.2	Is the sludge treatment equipped Forced ventilation system with sufficient air				
		change rate?				
1.03	S4.8.2	Is the exhaust discharge directed away from ASRs as far as practicable?		$\checkmark$		
1.04	S4.8.2	Is the chemical sludge produced at the desalination plant removed off-site regularly				
		to avoid accumulation of potentially odourous materials on site?		V		
1.05	S4.8.2	Is dewatered sludge to landfill handled and transported properly to minimise odour				
		nuisance to nearby ASRs?		$\checkmark$		
1.06	S4.8.2	Are the trucks fully enclosed during transporting the dewatered sludge to the				
		landfill to minimise any off-site odour impact during the transportation process?		_ <b>`</b>		
2.00	Waste Ma	-				
2.02	S8.5.2	Is a recording system implemented to record the amount of wastes generated,				
		recycled and disposed of?		<b>v</b>		
2.03	S8.5.2	Is a trip-ticket system implemented to monitor the disposal of solid wastes at public filling facilities and landfills?	$\checkmark$			
2.04	S8.5.2	Is the Contractor registered as a chemical waste producer?		$\checkmark$		
2.05	\$8.5.2	Is chemical waste separated from other waste and collected by a licensed chemical				
		waste collector?		$\checkmark$		
2.06	S8.5.2	Are trip tickets for chemical waste disposal available for inspection?	$\checkmark$			
2.07	S8.5.2	Is drip tray provided for chemical storage?		$\checkmark$		
2.08	S8.5.2	Are all containers for chemical waste properly labelled?		$\checkmark$		
2.09	S8.5.2	Is chemical waste storage area used solely for storage of chemical waste and				
		properly labelled?		$\checkmark$		





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
2.10	S8.5.2	Are incompatible chemical wastes stored in different areas?		✓		
2.11	\$8.5.2	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		$\checkmark$		
2.12	S8.5.2	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?		✓		
2.13	\$8.5.2	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		$\checkmark$		
2.14	\$8.5.2	Are sufficient general refuse disposal/collection points provided on site?		$\checkmark$		
2.15	\$8.5.2	Is general refuse disposed of properly and regularly?		$\checkmark$		
2.16	\$8.5.2	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		✓		
2.17	\$8.5.2	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		✓		
2.18	\$8.5.2	Is the dewatered sludge met the minimum dry solid content (30%) in the to be disposed of at landfills?		$\checkmark$		
2.19	\$8.5.2	Is a dumping license obtained to deliver public fill to public filling areas?	✓			
3.00	Landscape	e and Visual				
3.01	S11.10 & 11.11	Are Is site hoarding provided?		$\checkmark$		
3.02	S11.10 & 11.11	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		$\checkmark$		
3.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?		$\checkmark$		
3.04	S11.10 & 11.11	Is grass hydroseeding provided to slopes as soon as the completion of works?		✓		
3.05	S11.10 & 11.11	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$		
3.06	S11.10 & 11.11	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	✓			
3.07	S11.10 & 11.11	Are the retained and transplanted tree(s) properly protected and in good conditions?		√		
3.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?	✓			
4.00		Landfill Gas Hazard				
4.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		$\checkmark$		
4.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		$\checkmark$		
4.03	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?		✓		





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
4.04	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?		$\checkmark$		
4.05	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?		$\checkmark$		
4.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?	✓			
4.07	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?	✓			
4.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		$\checkmark$		
4.09	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?	$\checkmark$			
4.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?		$\checkmark$		
4.11	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?	<ul> <li></li> </ul>			
4.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		1		
5.00		Overall				
5.01		Is the EM&A properly implemented in general?		$\checkmark$		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection:							
		l July Zozy was found		inspection.			
			U				
Signatures:							
ET Representative	Contractor's Representative	Supervising Officer's Representative	IEC's Representative	WSD's Representative			
(Name: Toby Wan)	(Name: Tomy / ),	(Name: Deel far	(Name:	) (Name:	)		





#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date:1	6/07/2024 Inspected by: ET: Toby Wan	so: Alan Lung WSD:
Inspect	ion Time:1	4:30 Contractor: <u>Tommy Law</u>	IEC:
Weath	er		
Condi	ion	Sunny Fine Overcast Drizzle Rain	Storm
Tempe	erature	29 <sup>o</sup> C Humidity High Moderate	Low
Wind		Calm Light Breeze Strong	
Item			
No.	EIA ref.		N/A Yes No Photo/Remarks
0.00	General		
0.01		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	Air Qualit	y y	
1.01	S4.8.2	Is the the treatment and storage of the chemical sludge enclosed inside building	
		structure?	
1.02	S4.8.2	Is the sludge treatment equipped Forced ventilation system with sufficient air	
1.02	<b>a</b> 4 a <b>a</b>	change rate?	
1.03	S4.8.2	Is the exhaust discharge directed away from ASRs as far as practicable?	
1.04	S4.8.2	Is the chemical sludge produced at the desalination plant removed off-site regularly	
		to avoid accumulation of potentially odourous materials on site?	
1.05	S4.8.2	Is dewatered sludge to landfill handled and transported properly to minimise odour	
		nuisance to nearby ASRs?	
1.06	S4.8.2	Are the trucks fully enclosed during transporting the dewatered sludge to the	
2 00		landfill to minimise any off-site odour impact during the transportation process?	
2.00	Waste Ma		
2.02	S8.5.2	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?	
2.03	S8.5.2	Is a trip-ticket system implemented to monitor the disposal of solid wastes at	
		public filling facilities and landfills?	
2.04	S8.5.2	Is the Contractor registered as a chemical waste producer?	
2.05	S8.5.2	Is chemical waste separated from other waste and collected by a licensed chemical	
		waste collector?	
2.06	S8.5.2	Are trip tickets for chemical waste disposal available for inspection?	
2.07	S8.5.2	Is drip tray provided for chemical storage?	
2.08	S8.5.2	Are all containers for chemical waste properly labelled?	
2.09	S8.5.2	Is chemical waste storage area used solely for storage of chemical waste and	
		properly labelled?	





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
2.10	S8.5.2	Are incompatible chemical wastes stored in different areas?		✓		
2.11	\$8.5.2	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		$\checkmark$		
2.12	S8.5.2	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?		✓		
2.13	\$8.5.2	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		$\checkmark$		
2.14	\$8.5.2	Are sufficient general refuse disposal/collection points provided on site?		$\checkmark$		
2.15	\$8.5.2	Is general refuse disposed of properly and regularly?		$\checkmark$		
2.16	\$8.5.2	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		✓		
2.17	\$8.5.2	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		✓		
2.18	\$8.5.2	Is the dewatered sludge met the minimum dry solid content (30%) in the to be disposed of at landfills?		$\checkmark$		
2.19	\$8.5.2	Is a dumping license obtained to deliver public fill to public filling areas?	✓			
3.00	Landscape	e and Visual				
3.01	S11.10 & 11.11	Are Is site hoarding provided?		$\checkmark$		
3.02	S11.10 & 11.11	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		$\checkmark$		
3.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?		$\checkmark$		
3.04	S11.10 & 11.11	Is grass hydroseeding provided to slopes as soon as the completion of works?		✓		
3.05	S11.10 & 11.11	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$		
3.06	S11.10 & 11.11	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	✓			
3.07	S11.10 & 11.11	Are the retained and transplanted tree(s) properly protected and in good conditions?		√		
3.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?	$\checkmark$			
4.00		Landfill Gas Hazard				
4.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		$\checkmark$		
4.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		$\checkmark$		
4.03	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?		✓		





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
4.04	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?		$\checkmark$		
4.05	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?		$\checkmark$		
4.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?	✓			
4.07	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?	✓			
4.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		$\checkmark$		
4.09	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?	$\checkmark$			
4.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?		$\checkmark$		
4.11	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?	<ul> <li></li> </ul>			
4.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		1		
5.00		Overall				
5.01		Is the EM&A properly implemented in general?		$\checkmark$		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date: 16 July 2024. No major observation was found during site inspection, Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: Lung Wai Lun) (Name: 7 by Wm ) (Name: (Name:  $(\mathcal{M})$ ) (Name: )





#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date: <u>2</u>	3/07/2024 Inspected by: ET: Toby Wan	so: WSD:
Inspect	ion Time:1	4:30 Contractor: <u>Tommy Law</u>	IEC:
Weath	er		
Condi	tion	Sunny Fine Overcast Drizzle Rain	Storm Hazy
Tempe	erature	31 <sup>0</sup> C Humidity √ High Moderate	Low
Wind		Calm Light Breeze Strong	
Item			
No.	EIA ref.		N/A Yes No Photo/Remarks
0.00	General	·	
0.01		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	Air Qualit	y	
1.01	S4.8.2	Is the the treatment and storage of the chemical sludge enclosed inside building	
		structure?	
1.02	S4.8.2	Is the sludge treatment equipped Forced ventilation system with sufficient ai	
		change rate?	
1.03	S4.8.2	Is the exhaust discharge directed away from ASRs as far as practicable?	
1.04	S4.8.2	Is the chemical sludge produced at the desalination plant removed off-site regular	
		to avoid accumulation of potentially odourous materials on site?	
1.05	S4.8.2	Is dewatered sludge to landfill handled and transported properly to minimise odou	
		nuisance to nearby ASRs?	
1.06	S4.8.2	Are the trucks fully enclosed during transporting the dewatered sludge to the	
• • • •		landfill to minimise any off-site odour impact during the transportation process?	
2.00	Waste Ma		
2.02	S8.5.2	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?	
2.03	S8.5.2	Is a trip-ticket system implemented to monitor the disposal of solid wastes a	
		public filling facilities and landfills?	
2.04	S8.5.2	Is the Contractor registered as a chemical waste producer?	
2.05	\$8.5.2	Is chemical waste separated from other waste and collected by a licensed chemical	
		waste collector?	
2.06	S8.5.2	Are trip tickets for chemical waste disposal available for inspection?	
2.07	S8.5.2	Is drip tray provided for chemical storage?	
2.08	S8.5.2	Are all containers for chemical waste properly labelled?	
2.09	S8.5.2	Is chemical waste storage area used solely for storage of chemical waste and	
		properly labelled?	





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
2.10	S8.5.2	Are incompatible chemical wastes stored in different areas?		$\checkmark$		
2.11	\$8.5.2	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		$\checkmark$		
2.12	S8.5.2	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?		✓		
2.13	\$8.5.2	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		$\checkmark$		
2.14	\$8.5.2	Are sufficient general refuse disposal/collection points provided on site?		$\checkmark$		
2.15	\$8.5.2	Is general refuse disposed of properly and regularly?		$\checkmark$		
2.16	\$8.5.2	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		✓		
2.17	\$8.5.2	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		✓		
2.18	\$8.5.2	Is the dewatered sludge met the minimum dry solid content (30%) in the to be disposed of at landfills?		$\checkmark$		
2.19	\$8.5.2	Is a dumping license obtained to deliver public fill to public filling areas?	✓			
3.00	Landscape	e and Visual				
3.01	S11.10 & 11.11	Are Is site hoarding provided?		$\checkmark$		
3.02	S11.10 & 11.11	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		$\checkmark$		
3.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?		$\checkmark$		
3.04	S11.10 & 11.11	Is grass hydroseeding provided to slopes as soon as the completion of works?		✓		
3.05	S11.10 & 11.11	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$		
3.06	S11.10 & 11.11	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	✓			
3.07	S11.10 & 11.11	Are the retained and transplanted tree(s) properly protected and in good conditions?		√		
3.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?	$\checkmark$			
4.00		Landfill Gas Hazard				
4.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		$\checkmark$		
4.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		$\checkmark$		
4.03	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?		✓		





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
4.04	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?		$\checkmark$		
4.05	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?		$\checkmark$		
4.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?	✓			
4.07	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?	✓			
4.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		$\checkmark$		
4.09	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?	$\checkmark$			
4.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?		$\checkmark$		
4.11	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?	<ul> <li></li> </ul>			
4.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		1		
5.00		Overall				
5.01		Is the EM&A properly implemented in general?		$\checkmark$		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date: 23 July 2024 No major observation was found during site inspection, Signatures: ET Contractor's Supervising Officers IEC's WSD's Representat Representative Representative Representative Representative 1 (Name: //on (Name: Coro (Name: W) (Name: loby ) (Name: )





#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	em       EIA ref.         00       General         01       Is the current Environmental I entrances/exits for public's in         02       Is ET Leader's log-book kept         00       Air Quality         01       S4.8.2         02       Is the the treatment and storag structure?         02       S4.8.2         03       S4.8.2         04       S4.8.2         05       Is the chemical sludge produc to avoid accumulation of pote		so: <u>Dav</u>		WSD	<u>W.P. Ho</u>
Inspect	ion Time:9	:30 Contractor: <u>Tommy Law</u>	IEC: <u>Ser</u>	<u>ena Shek</u>		
Weath	er					
Condi	tion	Sunny Fine Overcast Drizzle Rain	Storm	На	zy	
Tempe	erature	27 <sup>o</sup> C Humidity √ High Moderate	Low			
Wind		9:30       Contractor: Tommy Law         9:30       Contractor: Tommy Law				
Item						
No.	EIA ref.		N/A	Yes	No	Photo/Remarks
0.00	General	•				
0.01						
		-				
0.02		Is ET Leader's log-book kept readily available for inspections?		$\checkmark$		
1.00	Air Qualit	y				
1.01	S4.8.2	Is the the treatment and storage of the chemical sludge enclosed inside building				
		structure?		_ <b>_</b>		
1.02	S4.8.2	Is the sludge treatment equipped Forced ventilation system with sufficient air				
		-				
1.03	S4.8.2	Is the exhaust discharge directed away from ASRs as far as practicable?		$\checkmark$		
1.04	S4.8.2	Is the chemical sludge produced at the desalination plant removed off-site regularly				
		to avoid accumulation of potentially odourous materials on site?		Ň		
1.05	S4.8.2	Is dewatered sludge to landfill handled and transported properly to minimise odour				
				$\checkmark$		
1.06	S4.8.2					
				Ľ		
2.00	an Time:       9:30         r       Sunny         ature       27         C       Humidity         Jight       Breeze         EIA ref.         General         Is the current Environmental Permit displayed conspicuously at all vehicle sentrances/exits for public's information at any time?         Is ET Leader's log-book kept readily available for inspections?         Air Quality         S4.8.2         Is the the treatment and storage of the chemical sludge enclosed inside build structure?         S4.8.2         Is the sludge treatment equipped Forced ventilation system with suffici change rate?         S4.8.2         S4.8.2         Is the chemical sludge produced at the desalination plant removed off-site r to avoid accumulation of potentially odourous materials on site?         S4.8.2       Is dewatered sludge to landfill handled and transported properly to minimis muisance to nearby ASRs?         S4.8.2       Is dewatered sludge to landfill handled to record the amount of wastes generate recycled and disposed of?         S8.5.2       Is a troi-ticket system implemented to record the amount of wastes generate recycled and disposed of?         S8.5.2       Is the Contractor registered as a chemical waste producer?         S8.5.2       Is chemical waste separated from other waste and collected by a licensed ch waste collector? <td< td=""><td></td><td></td><td></td><td></td></td<>					
2.02	S8.5.2					
2.02	<b>a</b> a <b>a a</b>					
2.03	\$8.5.2		$\checkmark$			
2.04	S8.5.2	Is the Contractor registered as a chemical waste producer?		✓		
2.05	S8.5.2	Is chemical waste separated from other waste and collected by a licensed chemical				
		waste collector?		$\checkmark$		
2.06	S8.5.2	Are trip tickets for chemical waste disposal available for inspection?	$\checkmark$			
2.07	S8.5.2	Is drip tray provided for chemical storage?		$\checkmark$		
2.08	S8.5.2	9:30       Contractor:		$\checkmark$		
2.09	S8.5.2	Is chemical waste storage area used solely for storage of chemical waste and				
		properly labelled?		$\checkmark$		





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
2.10	S8.5.2	Are incompatible chemical wastes stored in different areas?		✓		
2.11	\$8.5.2	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		$\checkmark$		
2.12	S8.5.2	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?		✓		
2.13	\$8.5.2	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		$\checkmark$		
2.14	\$8.5.2	Are sufficient general refuse disposal/collection points provided on site?		$\checkmark$		
2.15	\$8.5.2	Is general refuse disposed of properly and regularly?		$\checkmark$		
2.16	\$8.5.2	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		✓		
2.17	\$8.5.2	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		✓		
2.18	\$8.5.2	Is the dewatered sludge met the minimum dry solid content (30%) in the to be disposed of at landfills?		$\checkmark$		
2.19	\$8.5.2	Is a dumping license obtained to deliver public fill to public filling areas?	✓			
3.00	Landscape	e and Visual				
3.01	S11.10 & 11.11	Are Is site hoarding provided?		$\checkmark$		
3.02	S11.10 & 11.11	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		$\checkmark$		
3.03	S11.10 & 11.11	Is construction light oriented away from the sensitive receivers?		$\checkmark$		
3.04	S11.10 & 11.11	Is grass hydroseeding provided to slopes as soon as the completion of works?		✓		
3.05	S11.10 & 11.11	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$		
3.06	S11.10 & 11.11	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	✓			
3.07	S11.10 & 11.11	Are the retained and transplanted tree(s) properly protected and in good conditions?		√		
3.08	S11.10 & 11.11	Are surgery works carried out for damaged trees?	$\checkmark$			
4.00		Landfill Gas Hazard				
4.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		$\checkmark$		
4.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		$\checkmark$		
4.03	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?		✓		





Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
4.04	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?		$\checkmark$		
4.05	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?		$\checkmark$		
4.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?	✓			
4.07	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?	✓			
4.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?		$\checkmark$		
4.09	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?	$\checkmark$			
4.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?		$\checkmark$		
4.11	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?	<ul> <li></li> </ul>			
4.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		1		
5.00		Overall				
5.01		Is the EM&A properly implemented in general?		$\checkmark$		





Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Site Inspection Date: 29 July 2024 No major observation was found during site inspection. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: for ) (Name: ) WIN WOW (Name: Se (Name: (sby War (Name: / whi ) we





# Appendix J

# **Complaint Log**



#### Statistical Summary of Environmental Complaints

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

#### Statistical Summary of Environmental Summons

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

#### Statistical Summary of Environmental Prosecution

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





# Appendix K

# Exceedance Report (s)

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

exceedance	Monitoring	Tide	Parameter	Measurement Result	Sampling	Depth Average Result		ion Level mg/L)		nit Level mg/L)	Exceedance	Marine construction activities with	Exceedance related to
	Station			(mg/L)	depth	(mg/L)	95%- ile	Control 120%	99%- ile	Control 130%	=	contact with water (Y/N)	Project (Y/N)
	NF1	Flood	Suspended Solid (SS)			5.83	5.00	8.00	6.00	8.67	Action Level	Ν	Ν
02/07/2024	NF2	Flood	Suspended Solid (SS)			5.33	5.00	8.00	6.00	8.67	Action Level	Ν	N
	NF3	Flood	Suspended Solid (SS)			5.83	5.00	8.00	6.00	8.67	Action Level	Ν	Ν
	WSR1	Ebb	Suspended Solid (SS)			9.33	5.00	8.00	6.00	8.67	Action Level	Ν	Ν
	WSR2	Ebb	Suspended Solid (SS)			7.83	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
	WSR3	Ebb	Suspended Solid (SS)			7.83	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
	WSR4	Ebb	Suspended Solid (SS)			6.50	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
	WSR16	Ebb	Suspended Solid (SS)			8.17	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
04/07/2024	WSR33	Ebb	Suspended Solid (SS)			8.33	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
	WSR36	Ebb	Suspended Solid (SS)			8.33	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
	WSR37	Ebb	Suspended Solid (SS)			8.50	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
	NF1	Ebb	Suspended Solid (SS)			9.83	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
	NF2	Ebb	Suspended Solid (SS)			7.17	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
	NF3	Ebb	Suspended Solid (SS)			7.83	5.00	5.40	6.00	5.85	Limit Level	Ν	Ν
06/07/2024	WSR4	Ebb	Suspended Solid (SS)			4.83	5.00	8.00	6.00	8.67	Limit Level	Ν	Ν
00/07/2024	WSR36	Ebb	Suspended Solid (SS)			3.58	5.00	8.00	6.00	8.67	Limit Level	Ν	Ν
	WSR1	Flood	Suspended Solid (SS)			5.50	5.00	9.80	6.00	10.62	Action Level	Ν	Ν
	WSR16	Flood	Suspended Solid (SS)			6.83	5.00	9.80	6.00	10.62	Limit Level	Ν	Ν
	WSR33	Flood	Suspended Solid (SS)			8.17	5.00	9.80	6.00	10.62	Limit Level	Ν	Ν
08/07/2024	WSR36	Flood	Suspended Solid (SS)			6.33	5.00	9.80	6.00	10.62	Limit Level	Ν	Ν
	NF1	Flood	Suspended Solid (SS)			7.83	5.00	9.80	6.00	10.62	Limit Level	Ν	Ν
	NF2	Flood	Suspended Solid (SS)			7.83	5.00	9.80	6.00	10.62	Limit Level	Ν	Ν
	NF3	Flood	Suspended Solid (SS)			7.67	5.00	9.80	6.00	10.62	Limit Level	Ν	Ν
	WSR1	Flood	Suspended Solid (SS)			7.17	5.00	8.40	6.00	9.10	Limit Level	Ν	N
	WSR2	Flood	Suspended Solid (SS)			6.67	5.00	8.40	6.00	9.10	Limit Level	Ν	Ν
02/07/2024	WSR3	Flood	Suspended Solid (SS)			6.17	5.00	8.40	6.00	9.10	Limit Level	Ν	Ν
	WSR4	Flood	Suspended Solid (SS)			6.33	5.00	8.40	6.00	9.10	Limit Level	Ν	N
	WSR16	Flood	Suspended Solid (SS)			6.50	5.00	8.40	6.00	9.10	Limit Level	Ν	N
	WSR33	Flood	Suspended Solid (SS)			6.17	5.00	8.40	6.00	9.10	Limit Level	Ν	Ν



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Reasons of non-project related

exceedance

Project (Y/N) (6) (7) (1) (2) (5) (4) (3) ✓ ✓  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$ ✓  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$ ✓  $\checkmark$  $\checkmark$ Ν  $\checkmark$ ✓ ✓  $\checkmark$  $\checkmark$ Ν  $\checkmark$ ✓  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$ ✓ ✓  $\checkmark$ Ν  $\checkmark$  $\checkmark$ ✓  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$ ✓  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$ ✓ Ν  $\checkmark$  $\checkmark$  $\checkmark$ ✓  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$ ✓  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$ ✓ ✓  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$ ✓  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$ ✓  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ ✓  $\checkmark$ Ν  $\checkmark$  $\checkmark$ ✓  $\checkmark$  $\checkmark$  $\checkmark$ Ν ✓  $\checkmark$  $\checkmark$ ✓  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$  $\checkmark$ Ν

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

Date of	Monitoring	Tide	Parameter	Measurement Result	Sampling	Depth Average Result		on Level mg/L)		iit Level ng/L)	Exceedance	Marine construction activities with	Exceedance related to		Reaso		non-proje ceedance		ited
exceedance	Station			(mg/L)	depth	(mg/L)	95%- ile	Control 120%	99%- ile	Control 130%		contact with water (Y/N)	Project (Y/N)	(1)	(2)	(3)	(4) (5	5) (	6) (7)
	WSR36	Flood	Suspended Solid (SS)			6.33	5.00	8.40	6.00	9.10	Limit Level	Ν	Ν	✓	~	$\checkmark$	v	· ,	/ /
	WSR37	Flood	Suspended Solid (SS)			6.17	5.00	8.40	6.00	9.10	Limit Level	Ν	Ν	~	~	✓	v	< ,	/ /
	NF1	Flood	Suspended Solid (SS)			6.67	5.00	8.40	6.00	9.10	Limit Level	Ν	Ν	~	~	✓	v	< ,	/ /
	NF2	Flood	Suspended Solid (SS)			7.83	5.00	8.40	6.00	9.10	Limit Level	Ν	Ν	~	~	✓	v	< ,	/ /
	NF3	Flood	Suspended Solid (SS)			6.67	5.00	8.40	6.00	9.10	Limit Level	Ν	Ν	~	~	✓	v	< ,	/ /
13/07/2024	WSR3	Flood	Suspended Solid (SS)			5.17	5.00	5.80	6.00	6.28	Action Level	Ν	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 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 2, 4, 6, 8, 10 and 13 July 2024, five (5) Action Level and seventeen (17) Limit Level exceedances were recorded during mid-flood tide and one (1) Action Level and twelve (12) Limit Level exceedances were recorded during mid-flood tide and one (1) Action Level and twelve (12) Limit Level exceedances for SS of impact water quality monitoring were recorded between 1 July to 15 July 2024.

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

The desalination plant and the outfall shaft work normally.

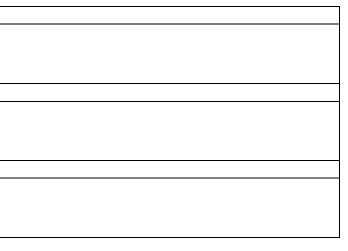
After investigation, all exceedances were considered non-project related.

#### **Operation Activities:**

2 July 2024	4 July 2024
Production of desalinated water	Production of desalinated water
Water sampling and analysis	<ul> <li>Water sampling and analysis</li> </ul>
Actidaff backwash	Actidaff backwash
6 July 2024	8 July 2024
Production of desalinated water	<ul> <li>Production of desalinated water</li> </ul>
Water sampling and analysis	Water sampling and analysis
Actidaff backwash	Actidaff backwash
10 July 2024	13 July 2024
<ul><li>Production of desalinated water</li><li>Water sampling and analysis</li></ul>	<ul><li>Production of desalinated water</li><li>Water sampling and analysis</li></ul>





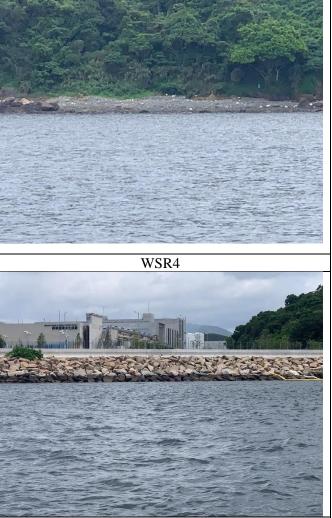


# Supporting Photo:

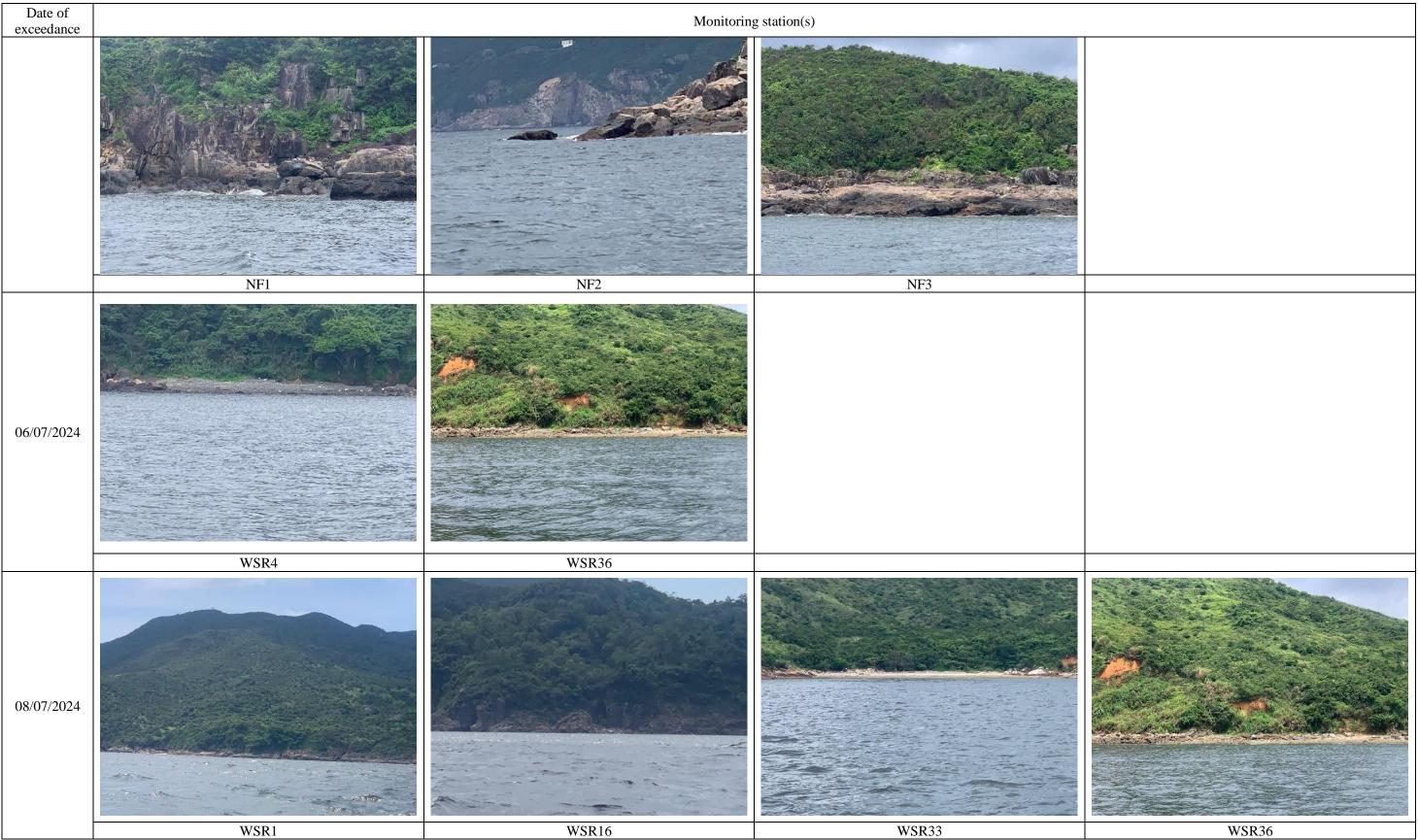
Date of exceedance	Monitoring station(s)								
02/07/2024									
	NF1	NF2	NF3						
04/07/2024	WSR1	WSR2	WSR3						
	WSR16	WSR33	WSR36						





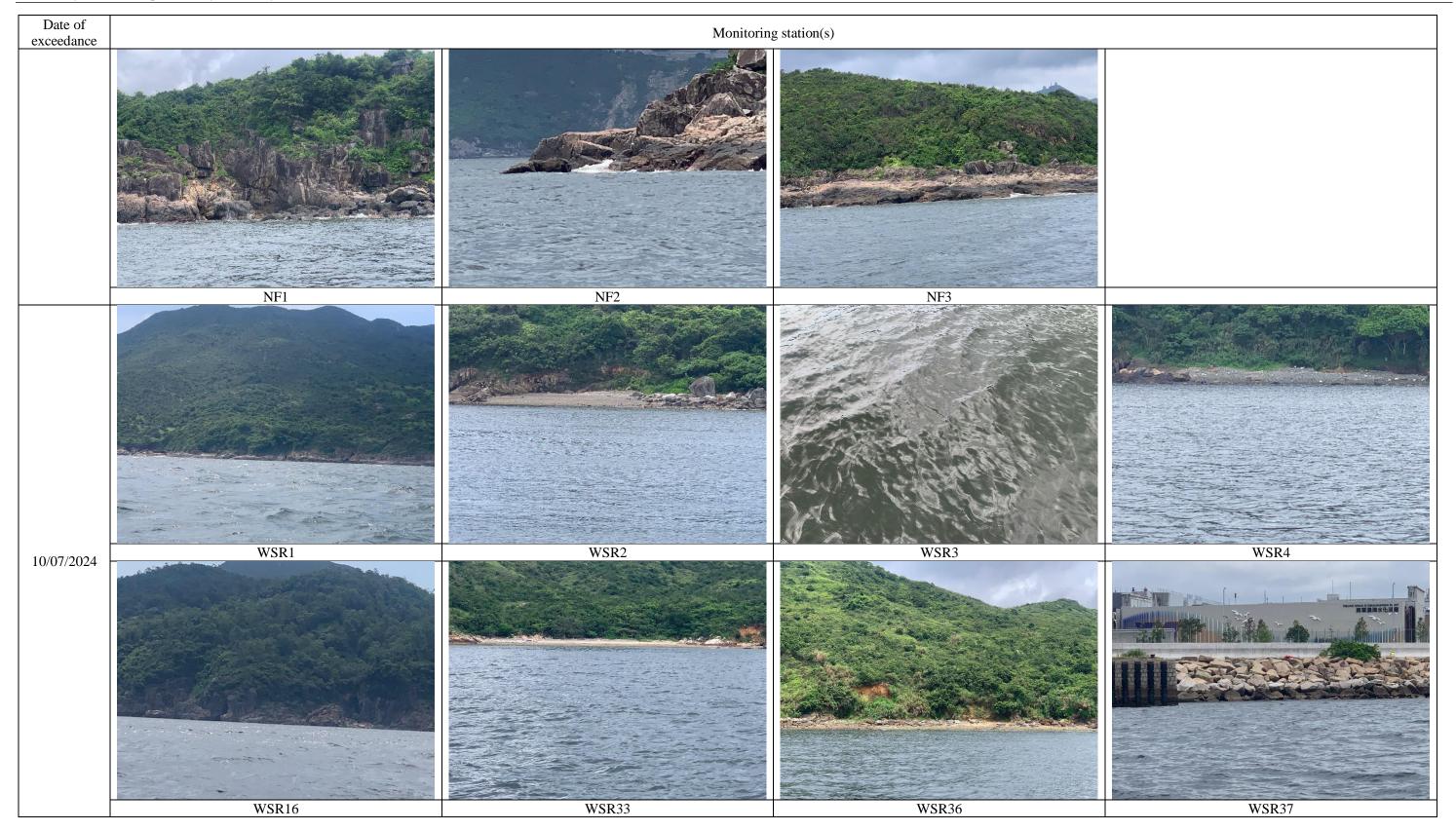


WSR37



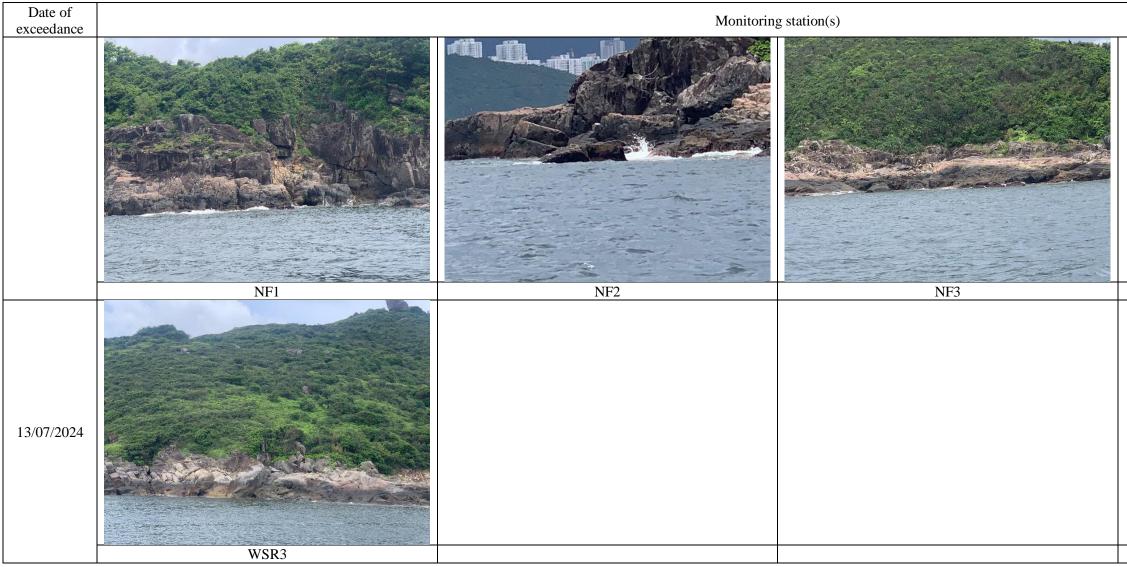






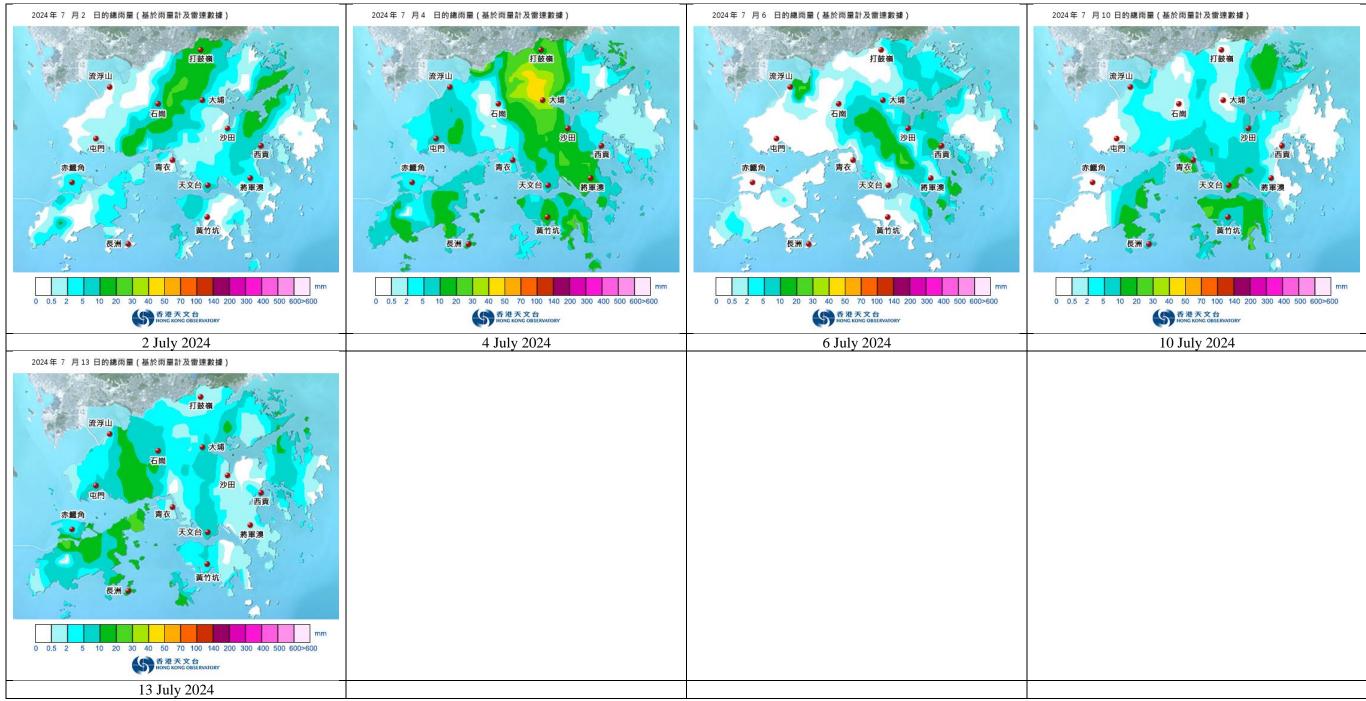
















#### **Bi-Weekly Incident Report on Action Level or Limit Level Non-Compliance**

Date of	Monitoring	Tide	Parameter	Measurement Result (mg/L) Sampling depth	Depth Average Result	Action Level (mg/L)		Limit Level (mg/L)		Exceedance	Marine construction activities with	Ex	
exceedance St	Station				depth	pth (mg/L)	95%- ile	Control 120%	99%- ile	Control 130%		contact with water (Y/N)	
16/07/2024	WSR1	-	Suspended Solid (SS)			6.00		4.40		4.77	Limit Level	Ν	
	WSR2					5.50			6.00		Limit Level	Ν	
	WSR3					5.33	5.00				Limit Level	Ν	
	WSR16					5.33					Limit Level	Ν	
	WSR33	Ebb				5.00					Limit Level	Ν	
	WSR37					6.33					Limit Level	Ν	
	NF1					5.17					Limit Level	Ν	
	NF2					5.00					Limit Level	Ν	
	NF3					6.83					Limit Level	Ν	
	WSR3		Suspended Solid (SS)			5.83		4.80		5.20	Limit Level	Ν	
	WSR4					5.17	5.00		6.00		Action Level	Ν	
	WSR16	Ebb				5.33					Limit Level	Ν	
	WSR33					5.83					Limit Level	Ν	
18/07/2024	WSR36					7.17					Limit Level	Ν	
	WSR37					5.83					Limit Level	Ν	
	NF1					5.50					Limit Level	Ν	
	NF2					5.83					Limit Level	Ν	
	NF3					6.50					Limit Level	Ν	
20/07/2024	NF1	Ebb	Suspended Solid (SS)			4.83	5.00	4.30	6.00	4.66	Limit Level	Ν	
20/05/2021	WSR37	– Ebb	Suspended Solid (SS)			5.00		4.40	6.00		Limit Level	Ν	
30/07/2024	NF3					5.50	5.00			4.77	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 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 16, 18, 20, and 30 July 2024, one (1) Action Level exceedances and twenty (20) Limit Level exceedance were recorded during mid-ebb tide. Total one (1) Action Level and twenty (20) Limit Level exceedances for SS of impact water quality monitoring were recorded between 16 June to 31 July 2024.

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

The desalination plant and the outfall shaft work normally.



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

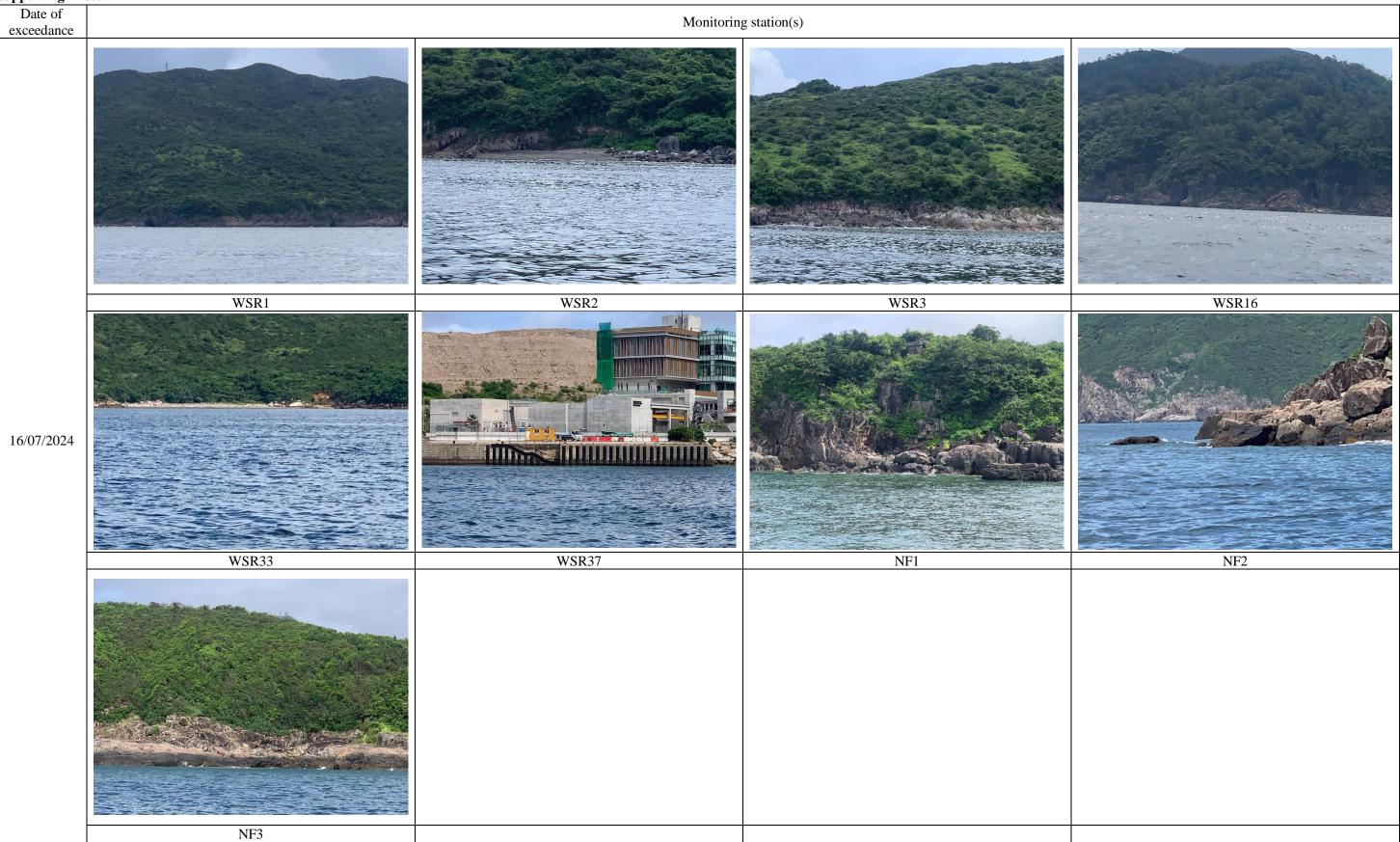
#### **Operation Activities:**

16 July 2024	18 July 2024
<ul> <li>Production of desalinated water</li> <li>Water sampling and analysis</li> </ul>	<ul> <li>Production of desalinated water</li> <li>Water sampling and analysis</li> <li>Actidaff backwashing</li> </ul>
20 July 2024	30 July 2024
<ul> <li>Production of desalinated water</li> <li>Water sampling and analysis</li> <li>Actidaff backwashing</li> </ul>	<ul> <li>Production of desalinated water</li> <li>Water sampling and analysis Actidaff backwashing</li> </ul>



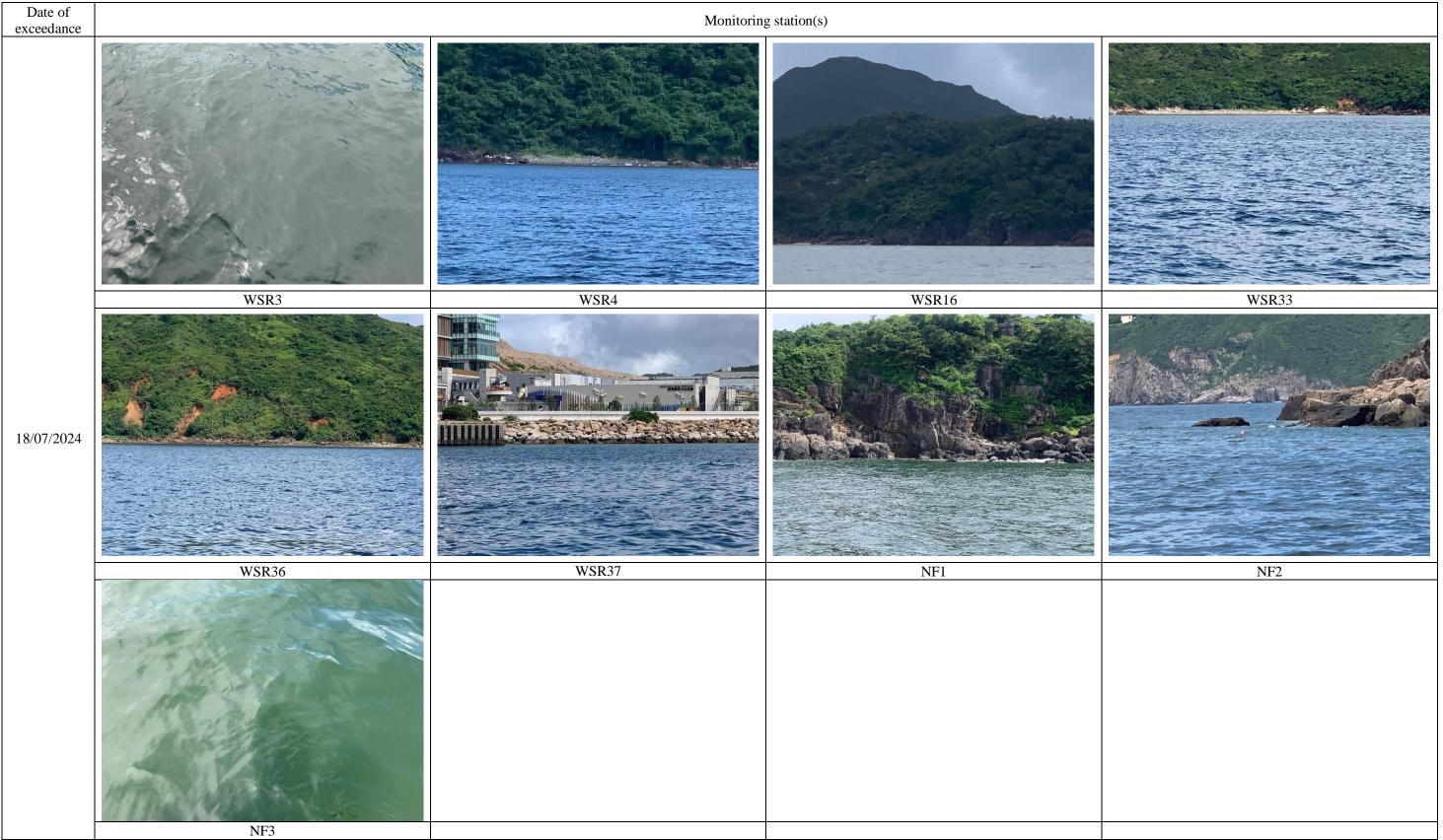


### Supporting Photo:













Date of exceedance	Monitoring station(s)					
20/07/2024						
30/07/2024	NF1	<image/> <caption></caption>				





